

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P175642

Luminaire Tested: **VERD-G-A02-E-U-T4-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26232)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-A02-E-U-T4-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15180 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

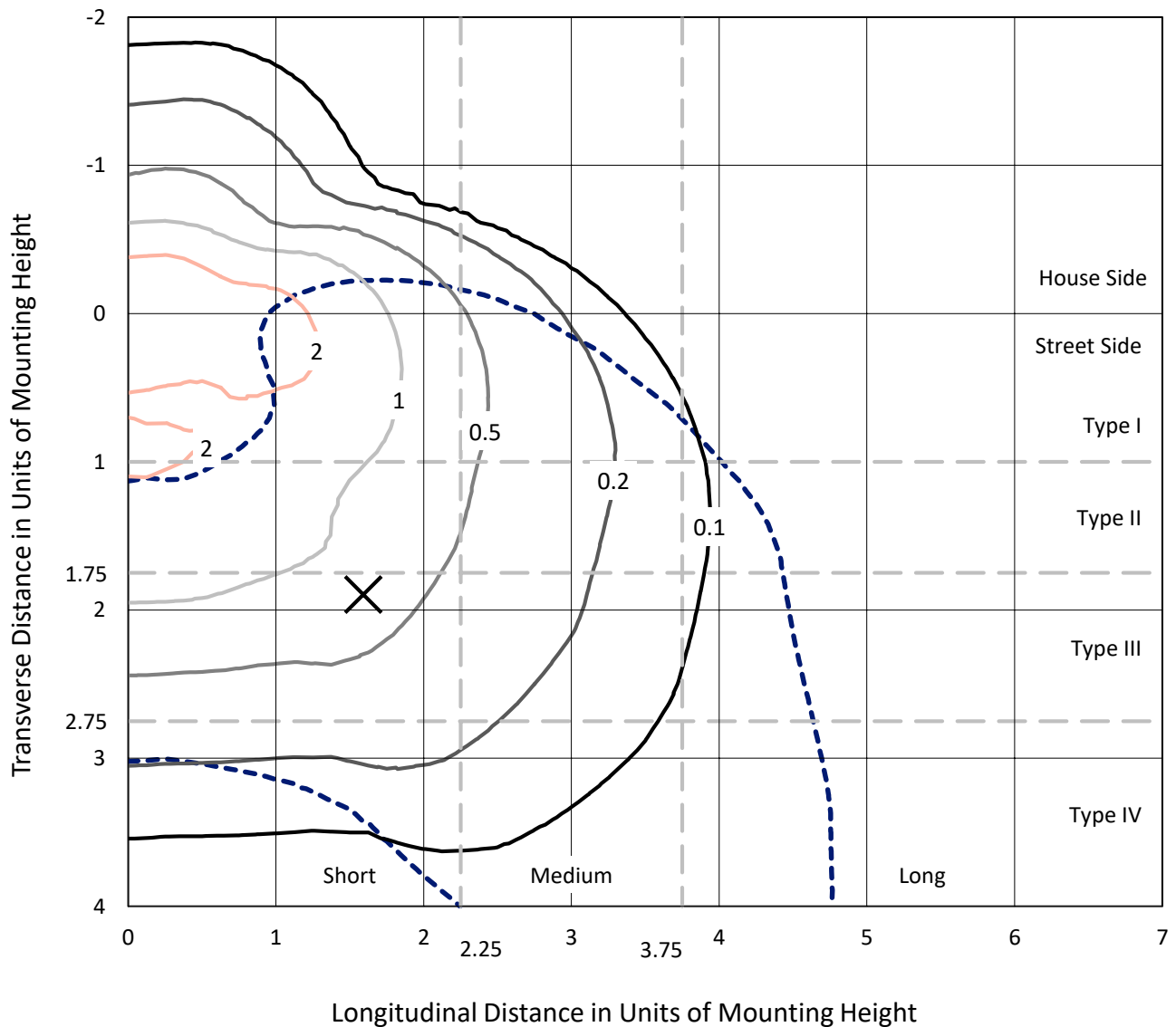


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

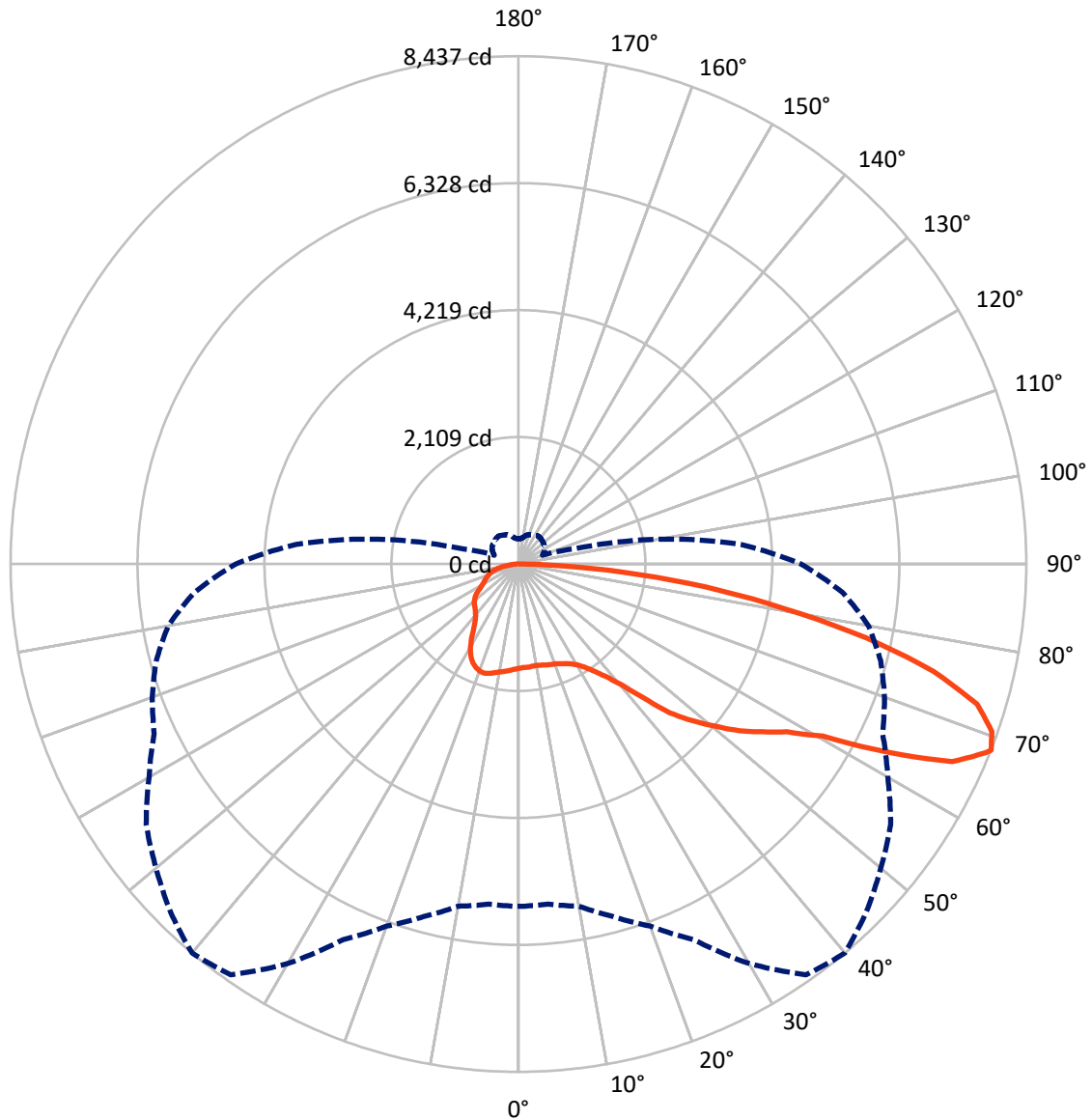


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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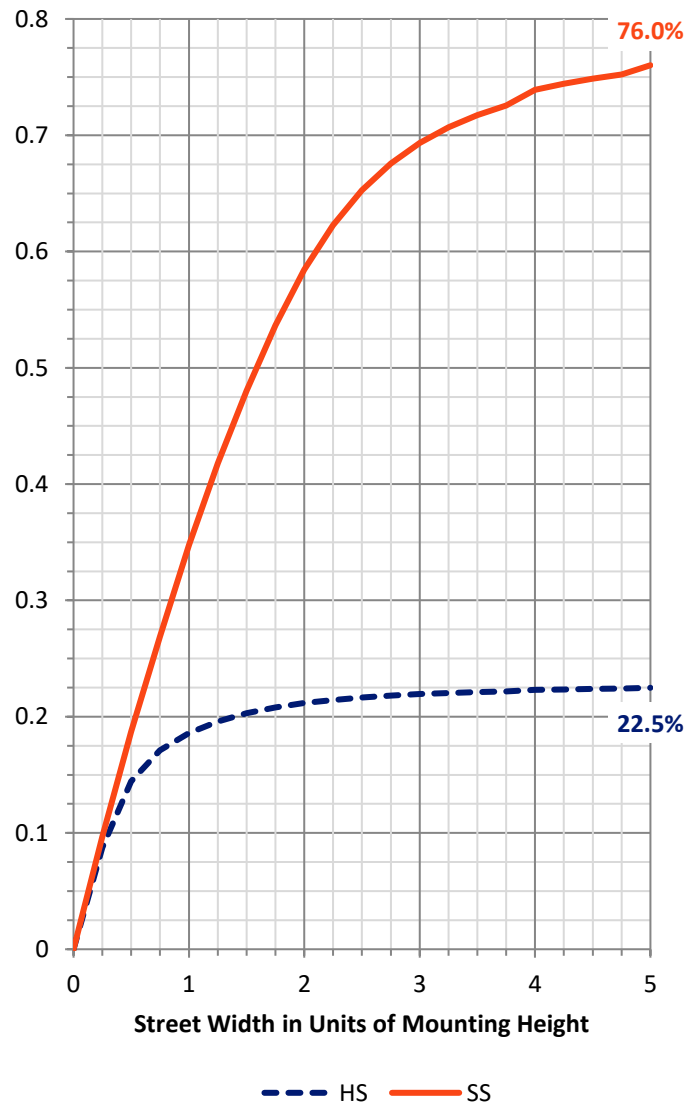
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3454.6	0.0	3454.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11725.4	0.0	11725.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	15180.0	0.0	15180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.1
10°-20°	513.9	3.4
20°-30°	865.1	5.7
30°-40°	1296.9	8.5
40°-50°	2124.3	14.0
50°-60°	3029.4	20.0
60°-70°	3817.2	25.1
70°-80°	2804.6	18.5
80°-90°	561.1	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15180.0	100.0
0°-180°	15180.0	100.0



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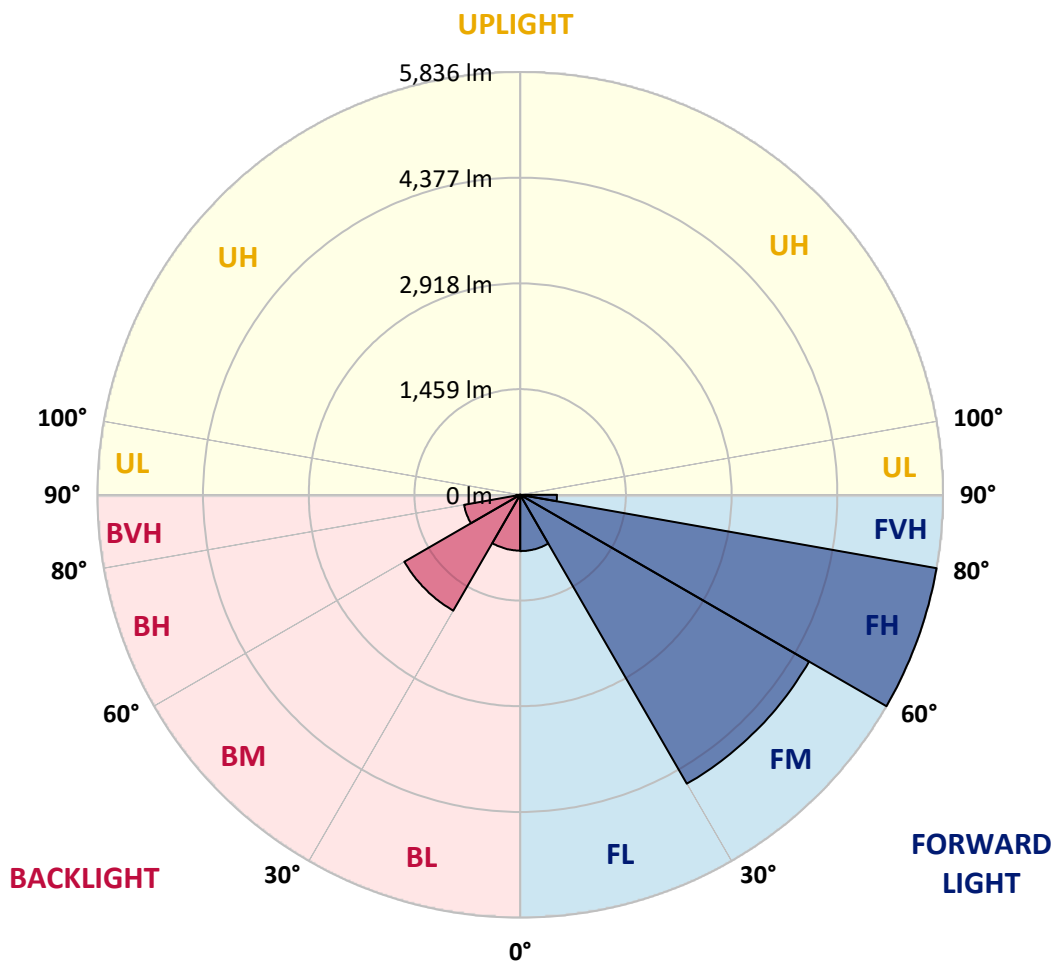
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.6	5.1			
FM	(30°-60°)	4603.8	30.3			
FH	(60°-80°)	5836.2	38.4			G3/7500
FVH	(80°-90°)	508.8	3.4			G4/750
BL	(0°-30°)	769.8	5.1	B2/1000		
BM	(30°-60°)	1846.9	12.2	B2/2500		
BH	(60°-80°)	785.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	52.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1740.1	1739.1	1731.1	1729.1	1722.1	1723.1	1721.1	1718.1	1719.1	1713.1	1713.1
5°	1738.1	1738.1	1730.1	1728.1	1724.1	1728.1	1727.1	1721.1	1723.1	1722.1	1721.1
7.5°	1722.1	1720.1	1711.1	1710.1	1707.1	1713.1	1715.1	1710.1	1712.1	1719.1	1721.1
10°	1708.1	1709.1	1701.1	1701.1	1699.1	1709.1	1714.1	1711.1	1713.1	1723.1	1724.1
12.5°	1686.1	1689.1	1684.1	1686.1	1687.1	1701.1	1714.1	1718.1	1723.1	1732.1	1737.1
15°	1676.1	1677.1	1674.1	1678.1	1683.1	1699.1	1715.1	1727.1	1740.1	1753.1	1761.1
17.5°	1692.1	1691.1	1686.1	1687.1	1690.1	1704.1	1724.1	1742.1	1754.1	1767.1	1782.1
20°	1697.1	1700.1	1697.1	1700.1	1705.1	1720.1	1746.1	1762.1	1771.1	1783.1	1803.1
22.5°	1728.1	1724.1	1723.1	1726.1	1725.1	1739.1	1762.1	1786.1	1801.1	1808.1	1829.1
25°	1759.1	1756.1	1756.1	1762.1	1762.1	1773.1	1795.1	1815.1	1832.1	1854.1	1882.1
27.5°	1792.1	1790.1	1790.1	1802.1	1808.1	1818.1	1840.1	1862.1	1880.1	1902.1	1942.1
30°	1859.1	1855.1	1847.1	1861.1	1864.1	1873.1	1901.1	1924.1	1947.1	1976.1	2014.1
32.5°	1975.1	1968.1	1955.1	1956.1	1951.1	1958.1	2000.1	2015.1	2047.1	2077.1	2110.1
35°	2231.1	2206.1	2177.1	2159.1	2135.1	2113.1	2140.1	2161.1	2194.1	2224.1	2267.1
37.5°	2608.1	2561.1	2518.1	2498.1	2454.1	2396.1	2377.1	2347.1	2376.1	2426.1	2478.1
40°	3028.1	3028.1	2980.1	2925.1	2854.1	2757.1	2705.1	2654.1	2636.1	2653.1	2730.1
42.5°	3428.1	3441.1	3395.1	3338.1	3278.1	3177.1	3108.1	3065.1	3029.1	3011.1	3037.1
45°	3800.1	3848.1	3819.1	3756.1	3717.1	3675.1	3653.1	3575.1	3527.1	3455.1	3430.1
47.5°	4077.1	4124.1	4093.1	4001.1	3978.1	3971.1	3970.1	3919.1	3889.1	3822.1	3781.1
50°	4365.1	4434.1	4379.1	4217.1	4231.1	4236.1	4246.1	4232.1	4235.1	4220.1	4197.1
52.5°	4817.2	4824.2	4630.1	4499.1	4473.1	4479.1	4523.1	4545.1	4602.1	4553.1	4563.1
55°	5474.2	5261.2	5015.2	4914.2	4806.2	4760.2	4767.2	4832.2	4922.2	4878.2	4884.2
57.5°	5692.2	5728.2	5740.2	5532.2	5470.2	5338.2	5310.2	5175.2	5260.2	5199.2	5219.2
60°	6150.2	6251.2	6228.2	6279.2	6150.2	6145.2	6189.2	5893.2	5808.2	5640.2	5599.2
62.5°	6662.2	6661.2	6800.2	6839.2	6892.2	6811.2	6987.2	6954.2	6886.2	6396.2	6100.2
65°	6456.2	6452.2	6543.2	6850.2	6956.2	7189.2	7448.2	7806.3	7916.3	7683.2	7205.2
67.5°	5755.2	5781.2	5893.2	6258.2	6560.2	6976.2	7610.2	8277.3	8369.3	8135.3	7813.3
68°	5688.2	5672.2	5772.2	6063.2	6401.2	6884.2	7664.2	8332.3	8437.3	8175.3	7859.3
70°	4929.2	4913.2	5099.2	5429.2	5795.2	6496.2	7733.2	8318.3	8345.3	8106.3	7820.3
72.5°	3840.1	3821.1	3996.1	4263.1	4672.1	5432.2	7142.2	7953.3	7969.3	7743.2	7512.2
75°	2790.1	2767.1	2931.1	3167.1	3506.1	4175.1	5910.2	6935.2	7127.2	7153.2	7083.2
77.5°	1925.1	1973.1	2135.1	2306.1	2608.1	3115.1	4467.1	5543.2	5916.2	6151.2	6310.2
80°	1294.0	1373.0	1498.0	1660.1	1901.1	2299.1	3323.1	4142.1	4467.1	4702.2	4817.2
82.5°	849.0	861.0	963.0	1103.0	1311.0	1631.1	2347.1	2939.1	3126.1	3156.1	3041.1
85°	446.0	481.0	544.0	632.0	762.0	955.0	1300.0	1682.1	1751.1	1738.1	1570.1
87.5°	163.0	177.0	208.0	250.0	312.0	404.0	523.0	585.0	443.0	326.0	233.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1716.1	1708.1	1707.1	1722.1	1718.1	1718.1	1716.1	1723.1	1716.1	1716.1	1726.1
5°	1720.1	1715.1	1715.1	1731.1	1735.1	1731.1	1735.1	1735.1	1733.1	1737.1	1744.1
7.5°	1719.1	1721.1	1722.1	1732.1	1744.1	1739.1	1751.1	1744.1	1753.1	1761.1	1763.1
10°	1719.1	1731.1	1736.1	1739.1	1750.1	1751.1	1760.1	1753.1	1767.1	1778.1	1780.1
12.5°	1737.1	1752.1	1770.1	1774.1	1783.1	1796.1	1797.1	1796.1	1814.1	1822.1	1831.1
15°	1767.1	1785.1	1807.1	1817.1	1829.1	1854.1	1851.1	1862.1	1882.1	1891.1	1907.1
17.5°	1799.1	1819.1	1845.1	1864.1	1882.1	1912.1	1910.1	1931.1	1951.1	1965.1	1983.1
20°	1828.1	1855.1	1885.1	1912.1	1942.1	1971.1	1977.1	2002.1	2030.1	2052.1	2067.1
22.5°	1862.1	1892.1	1925.1	1964.1	2002.1	2030.1	2056.1	2093.1	2124.1	2146.1	2155.1
25°	1916.1	1947.1	1984.1	2039.1	2081.1	2116.1	2164.1	2210.1	2239.1	2247.1	2244.1
27.5°	1984.1	2019.1	2064.1	2136.1	2182.1	2234.1	2303.1	2343.1	2359.1	2344.1	2305.1
30°	2063.1	2111.1	2167.1	2243.1	2303.1	2387.1	2471.1	2505.1	2487.1	2429.1	2344.1
32.5°	2172.1	2239.1	2305.1	2387.1	2486.1	2604.1	2691.1	2703.1	2634.1	2516.1	2381.1
35°	2344.1	2425.1	2509.1	2619.1	2800.1	2959.1	3030.1	2988.1	2841.1	2652.1	2449.1
37.5°	2575.1	2674.1	2799.1	2961.1	3230.1	3412.1	3442.1	3346.1	3128.1	2848.1	2547.1
40°	2846.1	2980.1	3146.1	3423.1	3711.1	3876.1	3866.1	3725.1	3445.1	3075.1	2678.1
42.5°	3186.1	3334.1	3543.1	3865.1	4190.1	4306.1	4258.1	4085.1	3754.1	3317.1	2821.1
45°	3518.1	3669.1	3905.1	4266.1	4578.1	4668.1	4592.1	4396.1	4031.1	3547.1	2983.1
47.5°	3850.1	3954.1	4254.1	4648.1	4941.2	4990.2	4879.2	4631.1	4261.1	3745.1	3100.1
50°	4241.1	4321.1	4634.1	5048.2	5266.2	5276.2	5158.2	4836.2	4423.1	3865.1	3188.1
52.5°	4608.1	4742.2	5066.2	5418.2	5552.2	5506.2	5373.2	5019.2	4541.1	3989.1	3213.1
55°	4963.2	5160.2	5513.2	5743.2	5797.2	5722.2	5517.2	5150.2	4639.1	3990.1	3192.1
57.5°	5305.2	5578.2	5908.2	6058.2	6034.2	5882.2	5575.2	5180.2	4649.1	3934.1	3108.1
60°	5679.2	5962.2	6251.2	6284.2	6180.2	5971.2	5625.2	5190.2	4591.1	3818.1	2965.1
62.5°	6089.2	6308.2	6474.2	6407.2	6262.2	6043.2	5646.2	5093.2	4494.1	3620.1	2633.1
65°	6649.2	6655.2	6640.2	6501.2	6280.2	5979.2	5558.2	5033.2	4251.1	3244.1	2049.1
67.5°	7477.2	7022.2	6691.2	6483.2	6239.2	5912.2	5454.2	4743.2	3836.1	2554.1	1175.0
68°	7549.2	7086.2	6676.2	6472.2	6231.2	5905.2	5402.2	4691.2	3709.1	2369.1	990.0
70°	7566.2	7086.2	6585.2	6408.2	6199.2	5771.2	5127.2	4193.1	3030.1	1520.0	412.0
72.5°	7340.2	6825.2	6476.2	6352.2	5990.2	5316.2	4367.1	3196.1	1839.1	477.0	314.0
75°	7037.2	6514.2	6089.2	5724.2	5194.2	4245.1	3135.1	1839.1	537.0	233.0	273.0
77.5°	6138.2	5569.2	5081.2	4610.1	3803.1	2747.1	1553.0	469.0	169.0	187.0	230.0
80°	4371.1	3740.1	3031.1	2374.1	1368.0	522.0	188.0	120.0	122.0	142.0	185.0
82.5°	2403.1	1595.1	952.0	369.0	128.0	110.0	99.0	82.0	86.0	115.0	135.0
85°	1047.0	505.0	153.0	93.0	81.0	74.0	63.0	57.0	73.0	76.0	73.0
87.5°	99.0	50.0	40.0	38.0	31.0	27.0	20.0	19.0	18.0	18.0	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1724.1	1726.1	1734.1	1732.1	1738.1	1747.1	1748.1	1753.1	1759.1	1765.1	1773.1
5°	1752.1	1752.1	1756.1	1753.1	1758.1	1763.1	1771.1	1773.1	1781.1	1793.1	1804.1
7.5°	1773.1	1772.1	1773.1	1781.1	1787.1	1787.1	1795.1	1796.1	1804.1	1814.1	1823.1
10°	1794.1	1807.1	1803.1	1809.1	1811.1	1812.1	1816.1	1818.1	1829.1	1833.1	1840.1
12.5°	1840.1	1852.1	1845.1	1854.1	1855.1	1850.1	1844.1	1843.1	1843.1	1839.1	1836.1
15°	1907.1	1913.1	1909.1	1902.1	1897.1	1896.1	1877.1	1862.1	1849.1	1831.1	1817.1
17.5°	1982.1	1979.1	1968.1	1959.1	1939.1	1925.1	1900.1	1867.1	1837.1	1798.1	1771.1
20°	2062.1	2041.1	2035.1	2004.1	1968.1	1933.1	1893.1	1847.1	1793.1	1736.1	1690.1
22.5°	2133.1	2102.1	2074.1	2033.1	1977.1	1924.1	1862.1	1803.1	1735.1	1657.1	1591.1
25°	2200.1	2141.1	2093.1	2033.1	1960.1	1891.1	1813.1	1738.1	1649.1	1552.0	1466.0
27.5°	2237.1	2157.1	2079.1	1998.1	1915.1	1821.1	1735.1	1641.1	1536.0	1426.0	1323.0
30°	2241.1	2144.1	2042.1	1930.1	1830.1	1721.1	1620.1	1503.0	1388.0	1274.0	1196.0
32.5°	2243.1	2107.1	1971.1	1837.1	1714.1	1588.1	1472.0	1343.0	1246.0	1176.0	1116.0
35°	2245.1	2062.1	1888.1	1712.1	1572.1	1436.0	1314.0	1213.0	1144.0	1098.0	1050.0
37.5°	2267.1	2020.1	1798.1	1589.1	1434.0	1298.0	1196.0	1119.0	1072.0	1038.0	1002.0
40°	2292.1	1970.1	1703.1	1473.0	1313.0	1193.0	1117.0	1069.0	1034.0	1008.0	979.0
42.5°	2310.1	1883.1	1573.1	1357.0	1203.0	1109.0	1066.0	1040.0	1020.0	1001.0	969.0
45°	2342.1	1787.1	1427.0	1210.0	1101.0	1044.0	1026.0	1017.0	1002.0	983.0	948.0
47.5°	2380.1	1685.1	1279.0	1087.0	1009.0	1000.0	999.0	991.0	970.0	950.0	914.0
50°	2400.1	1584.1	1123.0	984.0	952.0	959.0	965.0	957.0	926.0	897.0	865.0
52.5°	2462.1	1539.0	982.0	902.0	904.0	911.0	915.0	904.0	874.0	844.0	811.0
55°	2561.1	1474.0	877.0	821.0	839.0	849.0	859.0	842.0	822.0	800.0	775.0
57.5°	2422.1	1235.0	768.0	745.0	756.0	765.0	772.0	772.0	772.0	774.0	756.0
60°	1961.1	879.0	664.0	649.0	663.0	681.0	704.0	717.0	722.0	724.0	716.0
62.5°	1381.0	624.0	572.0	581.0	599.0	629.0	651.0	665.0	663.0	651.0	633.0
65°	773.0	519.0	528.0	555.0	570.0	594.0	614.0	622.0	607.0	589.0	573.0
67.5°	436.0	476.0	512.0	535.0	548.0	562.0	574.0	583.0	565.0	544.0	532.0
68°	425.0	470.0	508.0	528.0	541.0	555.0	564.0	570.0	551.0	532.0	522.0
70°	396.0	459.0	491.0	507.0	508.0	531.0	533.0	537.0	521.0	499.0	486.0
72.5°	363.0	435.0	451.0	464.0	475.0	483.0	502.0	494.0	474.0	455.0	425.0
75°	335.0	373.0	388.0	418.0	426.0	439.0	449.0	430.0	400.0	382.0	364.0
77.5°	291.0	310.0	326.0	332.0	356.0	366.0	377.0	377.0	359.0	361.0	334.0
80°	224.0	226.0	220.0	238.0	270.0	283.0	287.0	279.0	292.0	290.0	279.0
82.5°	129.0	120.0	130.0	135.0	151.0	163.0	183.0	200.0	202.0	196.0	208.0
85°	54.0	48.0	55.0	63.0	80.0	99.0	122.0	131.0	129.0	125.0	115.0
87.5°	22.0	22.0	26.0	31.0	41.0	52.0	59.0	69.0	75.0	77.0	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1732.1	1732.1	1732.1	1732.1
2.5°	1776.1	1775.1	1774.1	1772.1
5°	1807.1	1808.1	1808.1	1807.1
7.5°	1830.1	1835.1	1836.1	1836.1
10°	1848.1	1852.1	1853.1	1852.1
12.5°	1842.1	1843.1	1847.1	1848.1
15°	1814.1	1807.1	1805.1	1804.1
17.5°	1748.1	1730.1	1715.1	1708.1
20°	1644.1	1609.1	1580.1	1573.1
22.5°	1528.0	1474.0	1436.0	1423.0
25°	1388.0	1321.0	1280.0	1267.0
27.5°	1251.0	1185.0	1156.0	1140.0
30°	1138.0	1089.0	1057.0	1041.0
32.5°	1063.0	1015.0	982.0	967.0
35°	1001.0	951.0	907.0	887.0
37.5°	960.0	901.0	850.0	830.0
40°	936.0	883.0	828.0	806.0
42.5°	924.0	879.0	830.0	806.0
45°	905.0	857.0	815.0	789.0
47.5°	876.0	831.0	789.0	765.0
50°	823.0	777.0	743.0	724.0
52.5°	767.0	716.0	680.0	659.0
55°	729.0	678.0	650.0	636.0
57.5°	722.0	674.0	646.0	630.0
60°	681.0	635.0	599.0	582.0
62.5°	593.0	548.0	520.0	509.0
65°	538.0	495.0	468.0	460.0
67.5°	502.0	457.0	429.0	423.0
68°	493.0	448.0	424.0	416.0
70°	452.0	409.0	388.0	380.0
72.5°	365.0	323.0	295.0	285.0
75°	318.0	272.0	249.0	244.0
77.5°	279.0	225.0	202.0	197.0
80°	226.0	178.0	122.0	114.0
82.5°	169.0	109.0	91.0	83.0
85°	98.0	75.0	59.0	55.0
87.5°	62.0	52.0	45.0	42.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)