

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: P129298

Luminaire Tested: **VERD-A02-E-U-T2-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A02-E-U-T2-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9294 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 92
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

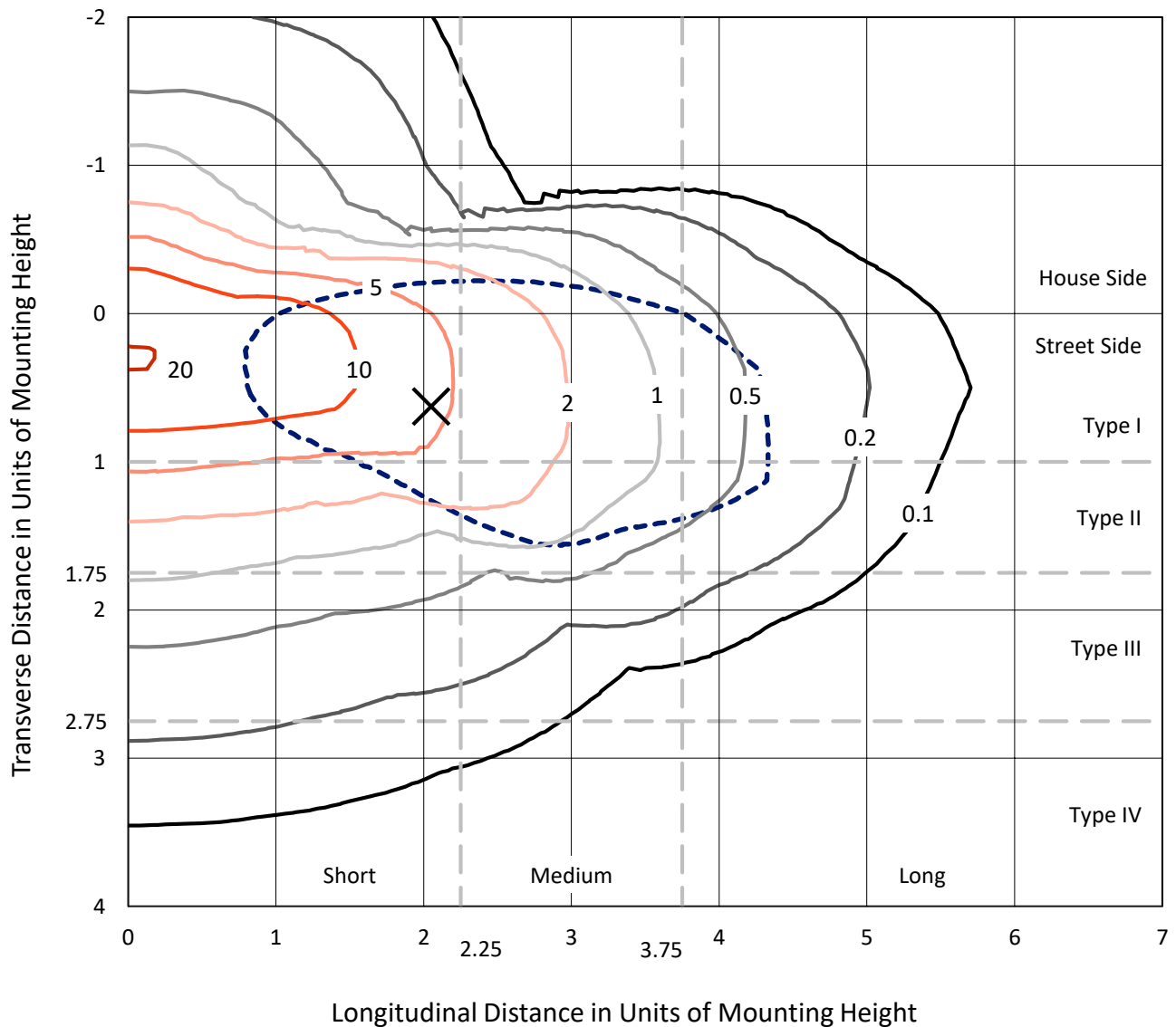


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

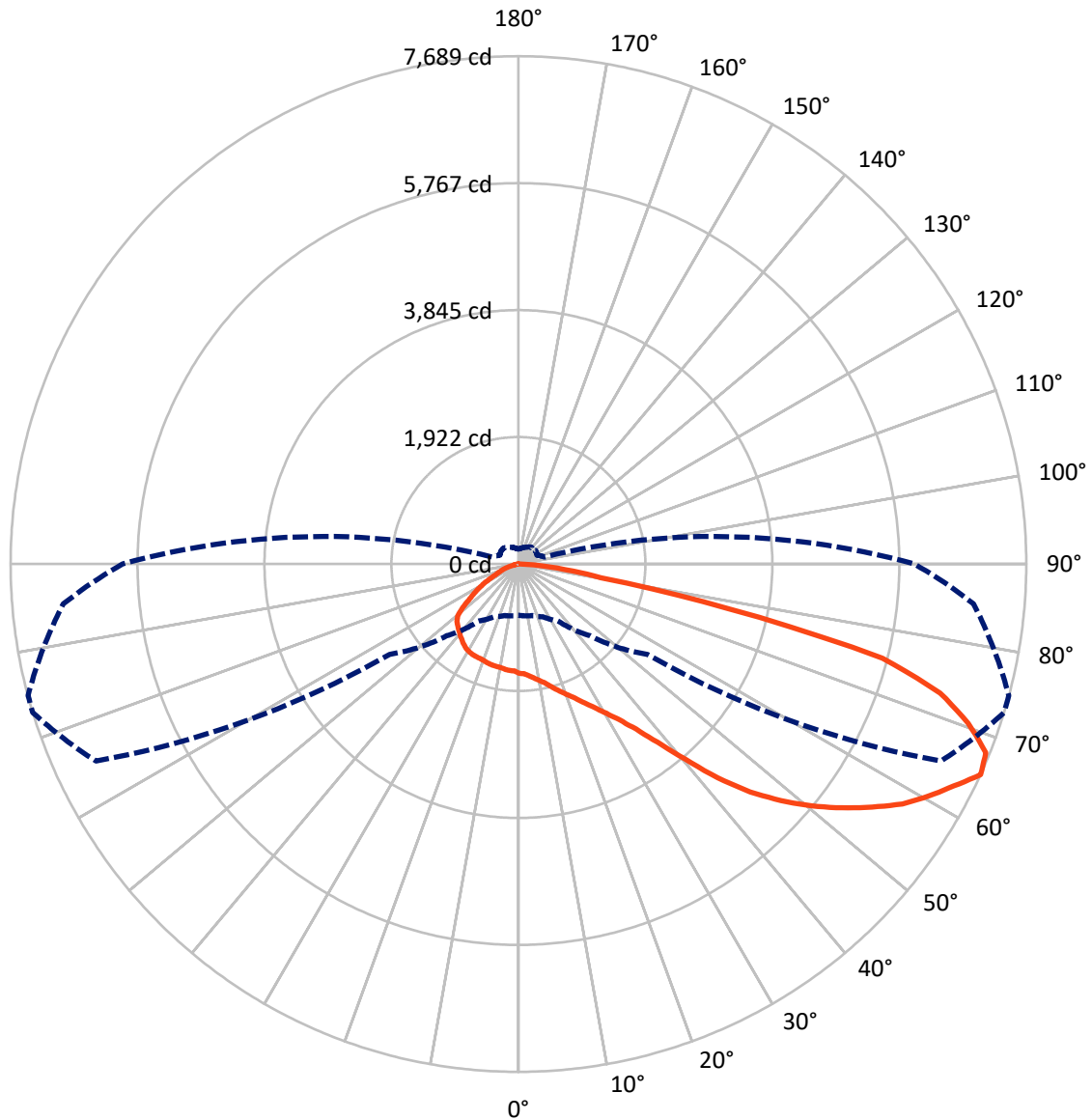


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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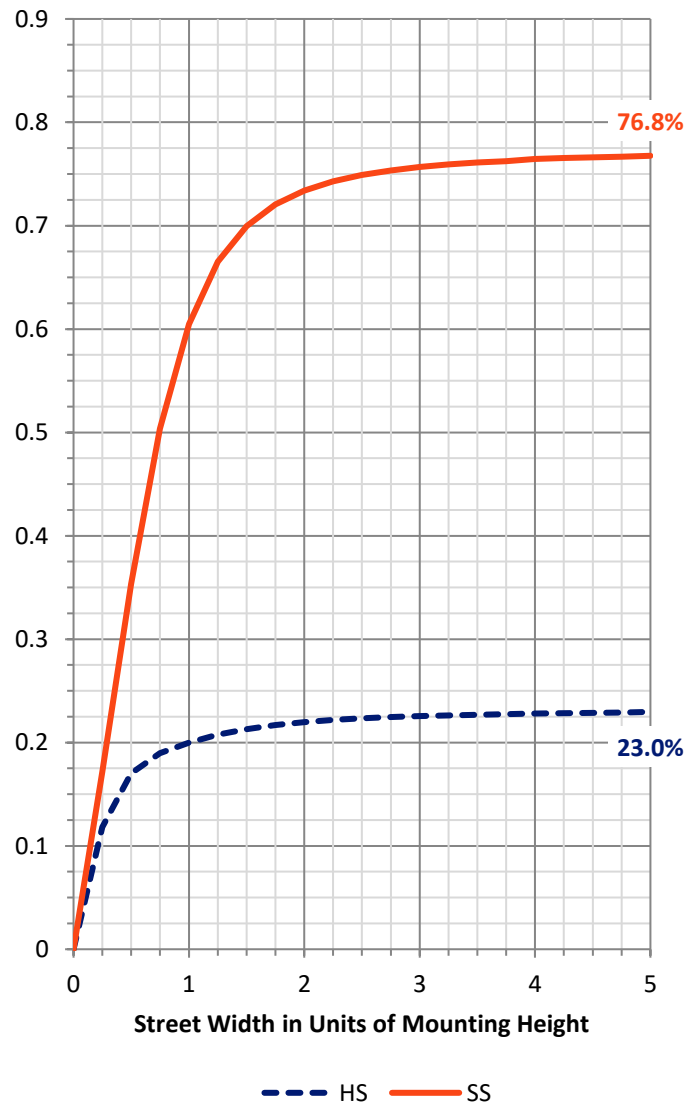
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.7	0.0	2164.7
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	7129.3	0.0	7129.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	9294.0	0.0	9294.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	1.7
10°-20°	497.6	5.4
20°-30°	835.5	9.0
30°-40°	1144.4	12.3
40°-50°	1526.9	16.4
50°-60°	1834.1	19.7
60°-70°	1951.8	21.0
70°-80°	1209.5	13.0
80°-90°	134.1	1.4
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°	9294.0	100.0
0°-180°	9294.0	100.0



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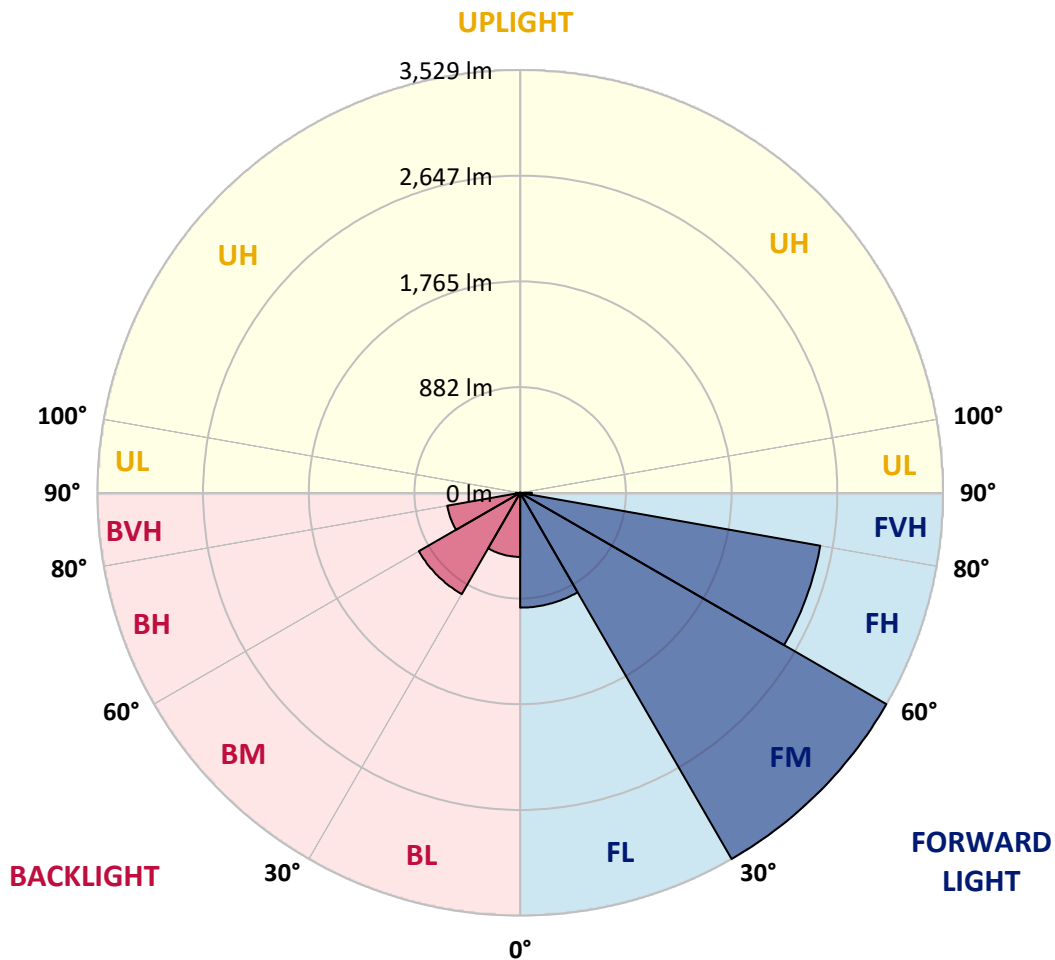
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.5	10.3			
FM	(30°-60°)	3529.4	38.0			
FH	(60°-80°)	2543.1	27.4			G2/5000
FVH	(80°-90°)	98.3	1.1			G1/100
BL	(0°-30°)	534.8	5.8	B2/1000		
BM	(30°-60°)	976.0	10.5	B1/1000		
BH	(60°-80°)	618.1	6.7	B2/1000		G2/1000
BVH	(80°-90°)	35.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1763.0	1759.0	1760.0	1756.0	1744.0	1731.0	1706.0	1685.0	1663.0	1659.0	1649.0
5°	1849.0	1847.0	1848.0	1842.0	1824.0	1801.0	1765.0	1731.0	1700.0	1692.0	1674.0
7.5°	1929.0	1929.0	1927.0	1917.0	1896.0	1867.0	1832.0	1788.0	1746.0	1735.0	1706.0
10°	2042.0	2037.0	2036.0	2019.0	1981.0	1941.0	1900.0	1850.0	1796.0	1780.0	1728.0
12.5°	2160.0	2155.0	2157.0	2133.0	2091.0	2025.0	1982.0	1923.0	1857.0	1840.0	1770.0
15°	2278.1	2269.1	2272.1	2251.1	2208.0	2148.0	2077.0	2011.0	1939.0	1919.0	1820.0
17.5°	2371.1	2365.1	2371.1	2356.1	2317.1	2261.1	2179.0	2109.0	2024.0	2002.0	1875.0
20°	2434.1	2435.1	2448.1	2444.1	2416.1	2364.1	2284.1	2209.0	2110.0	2086.0	1937.0
22.5°	2471.1	2475.1	2504.1	2529.1	2520.1	2460.1	2396.1	2312.1	2208.0	2184.0	2006.0
25°	2481.1	2487.1	2544.1	2609.1	2618.1	2571.1	2516.1	2424.1	2329.1	2303.1	2095.0
27.5°	2504.1	2509.1	2566.1	2640.1	2695.1	2674.1	2637.1	2547.1	2462.1	2433.1	2196.0
30°	2477.1	2481.1	2543.1	2641.1	2738.1	2768.1	2759.1	2688.1	2622.1	2589.1	2304.1
32.5°	2342.1	2359.1	2446.1	2611.1	2773.1	2860.1	2884.1	2853.1	2811.1	2774.1	2434.1
35°	2211.0	2223.0	2335.1	2541.1	2770.1	2937.1	3024.1	3071.1	3067.1	3030.1	2644.1
37.5°	2104.0	2118.0	2209.0	2440.1	2742.1	3011.1	3181.1	3347.1	3422.1	3399.1	3008.1
40°	1977.0	1994.0	2077.0	2306.1	2676.1	3057.1	3377.1	3656.1	3879.1	3892.1	3473.1
42.5°	1818.0	1845.0	1920.0	2135.0	2581.1	3083.1	3572.1	3998.1	4425.1	4433.1	3907.1
45°	1677.0	1699.0	1770.0	1955.0	2444.1	3085.1	3749.1	4368.1	4921.1	4914.1	4297.1
47.5°	1542.0	1571.0	1642.0	1803.0	2256.1	3044.1	3887.1	4742.1	5352.1	5339.1	4690.1
50°	1180.0	1214.0	1462.0	1661.0	2036.0	2931.1	3984.1	5126.1	5757.1	5741.1	5063.1
52.5°	1068.0	1075.0	1149.0	1503.0	1871.0	2714.1	4010.1	5526.1	6133.1	6102.1	5393.1
55°	1012.0	1012.0	1047.0	1237.0	1665.0	2376.1	3930.1	5912.1	6496.1	6461.1	5726.1
57.5°	943.0	945.0	995.0	1084.0	1466.0	2053.0	3714.1	6292.1	6854.2	6817.2	6049.1
60°	887.0	890.0	936.0	1012.0	1267.0	1788.0	3289.1	6620.1	7136.2	7096.2	6379.1
62.5°	838.0	841.0	873.0	952.0	1159.0	1647.0	2846.1	6803.2	7400.2	7382.2	6688.1
65°	776.0	786.0	808.0	881.0	1054.0	1535.0	2385.1	7058.2	7689.2	7686.2	6916.2
67.5°	698.0	707.0	728.0	794.0	954.0	1406.0	2106.0	7258.2	7632.2	7630.2	6891.2
70°	605.0	605.0	636.0	697.0	832.0	1244.0	1852.0	6711.1	7226.2	7212.2	6419.1
72.5°	502.0	503.0	534.0	595.0	703.0	1034.0	1425.0	5722.1	6676.1	6709.1	5691.1
75°	432.0	433.0	460.0	516.0	597.0	822.0	999.0	3057.1	5692.1	5718.1	4790.1
77.5°	258.0	253.0	289.0	331.0	379.0	473.0	616.0	1551.0	3251.1	3755.1	3502.1
80°	64.0	66.0	177.0	211.0	232.0	215.0	276.0	623.0	1272.0	1464.0	1999.0
82.5°	36.0	40.0	106.0	131.0	127.0	64.0	94.0	307.0	723.0	814.0	956.0
85°	17.0	19.0	37.0	53.0	42.0	40.0	34.0	132.0	382.0	442.0	469.0
87.5°	9.0	9.0	17.0	21.0	19.0	19.0	14.0	10.0	7.0	8.0	6.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1648.0	1641.0	1624.0	1606.0	1600.0	1589.0	1589.0	1587.0	1581.0	1572.0	1560.0
5°	1664.0	1651.0	1624.0	1593.0	1569.0	1544.0	1533.0	1523.0	1514.0	1498.0	1487.0
7.5°	1683.0	1661.0	1618.0	1571.0	1527.0	1493.0	1473.0	1457.0	1444.0	1433.0	1423.0
10°	1698.0	1663.0	1604.0	1544.0	1483.0	1435.0	1408.0	1389.0	1374.0	1371.0	1360.0
12.5°	1729.0	1677.0	1600.0	1527.0	1451.0	1398.0	1358.0	1323.0	1310.0	1296.0	1291.0
15°	1771.0	1706.0	1600.0	1507.0	1418.0	1348.0	1300.0	1269.0	1233.0	1227.0	1212.0
17.5°	1813.0	1733.0	1594.0	1473.0	1369.0	1286.0	1223.0	1189.0	1168.0	1133.0	1123.0
20°	1855.0	1763.0	1585.0	1432.0	1308.0	1207.0	1129.0	1083.0	1086.0	1029.0	1030.0
22.5°	1896.0	1794.0	1582.0	1392.0	1244.0	1111.0	1019.0	963.0	966.0	924.0	914.0
25°	1962.0	1837.0	1587.0	1356.0	1171.0	1001.0	894.0	842.0	851.0	824.0	809.0
27.5°	2043.0	1888.0	1591.0	1312.0	1075.0	879.0	769.0	749.0	745.0	716.0	699.0
30°	2123.0	1936.0	1589.0	1251.0	964.0	732.0	677.0	659.0	633.0	605.0	594.0
32.5°	2215.0	1994.0	1579.0	1187.0	844.0	653.0	598.0	572.0	536.0	506.0	512.0
35°	2361.1	2079.0	1556.0	1110.0	697.0	587.0	516.0	478.0	450.0	421.0	429.0
37.5°	2628.1	2228.0	1528.0	1019.0	611.0	513.0	418.0	390.0	378.0	366.0	381.0
40°	3037.1	2534.1	1510.0	903.0	543.0	421.0	331.0	340.0	355.0	345.0	360.0
42.5°	3408.1	2805.1	1497.0	749.0	457.0	328.0	312.0	333.0	350.0	348.0	342.0
45°	3752.1	3049.1	1495.0	569.0	360.0	314.0	313.0	328.0	352.0	350.0	346.0
47.5°	4084.1	3290.1	1480.0	449.0	349.0	320.0	319.0	327.0	356.0	353.0	350.0
50°	4407.1	3502.1	1407.0	402.0	359.0	335.0	325.0	323.0	347.0	348.0	341.0
52.5°	4698.1	3674.1	1238.0	389.0	369.0	348.0	332.0	323.0	328.0	327.0	321.0
55°	4989.1	3831.1	1030.0	383.0	373.0	357.0	355.0	329.0	318.0	300.0	307.0
57.5°	5251.1	3986.1	878.0	372.0	366.0	357.0	370.0	330.0	317.0	283.0	278.0
60°	5559.1	4148.1	715.0	359.0	354.0	350.0	349.0	330.0	310.0	271.0	258.0
62.5°	5854.1	4229.1	568.0	338.0	342.0	339.0	328.0	312.0	295.0	267.0	263.0
65°	5994.1	4103.1	409.0	311.0	326.0	331.0	313.0	281.0	256.0	232.0	226.0
67.5°	5845.1	3920.1	325.0	276.0	298.0	317.0	298.0	259.0	229.0	211.0	212.0
70°	5318.1	3663.1	265.0	231.0	257.0	295.0	288.0	247.0	209.0	193.0	195.0
72.5°	4775.1	3185.1	214.0	181.0	192.0	265.0	261.0	235.0	197.0	174.0	174.0
75°	3893.1	2275.1	156.0	131.0	132.0	217.0	235.0	196.0	161.0	130.0	126.0
77.5°	2708.1	1475.0	80.0	76.0	87.0	121.0	181.0	169.0	155.0	151.0	144.0
80°	1577.0	753.0	51.0	35.0	45.0	81.0	142.0	148.0	146.0	99.0	92.0
82.5°	745.0	217.0	30.0	22.0	26.0	38.0	84.0	128.0	121.0	71.0	68.0
85°	300.0	26.0	16.0	13.0	15.0	22.0	40.0	103.0	84.0	66.0	66.0
87.5°	6.0	6.0	6.0	6.0	7.0	10.0	20.0	56.0	45.0	38.0	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)