

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: P129499

Luminaire Tested: **VERD-A018-E-U-T3-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25189)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A018-E-U-T3-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K LED AT 80% STANDARD LUMENS AND TYPE III OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 51
Input Voltage (V): NR
Input Current (A_{in}): 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

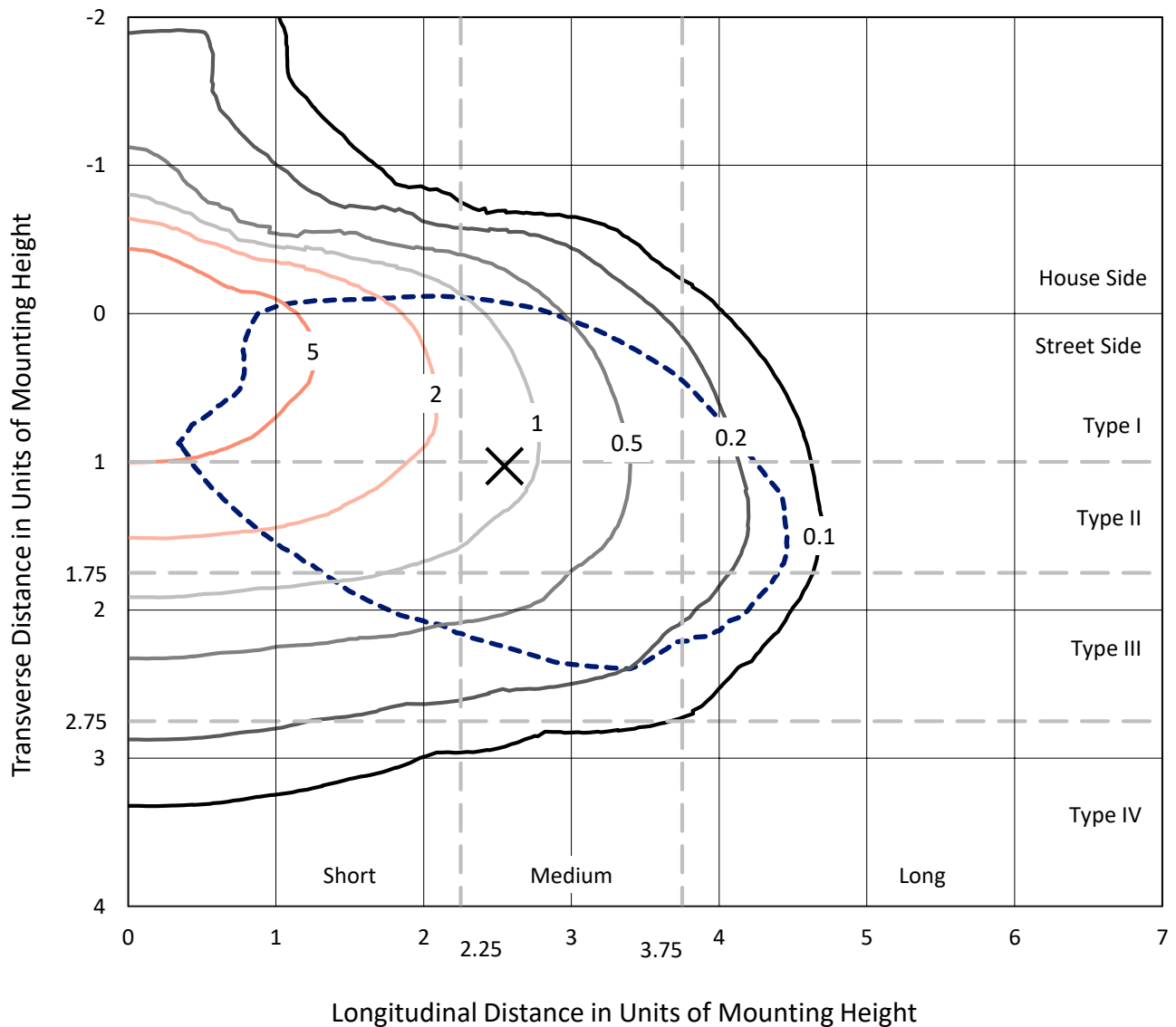


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

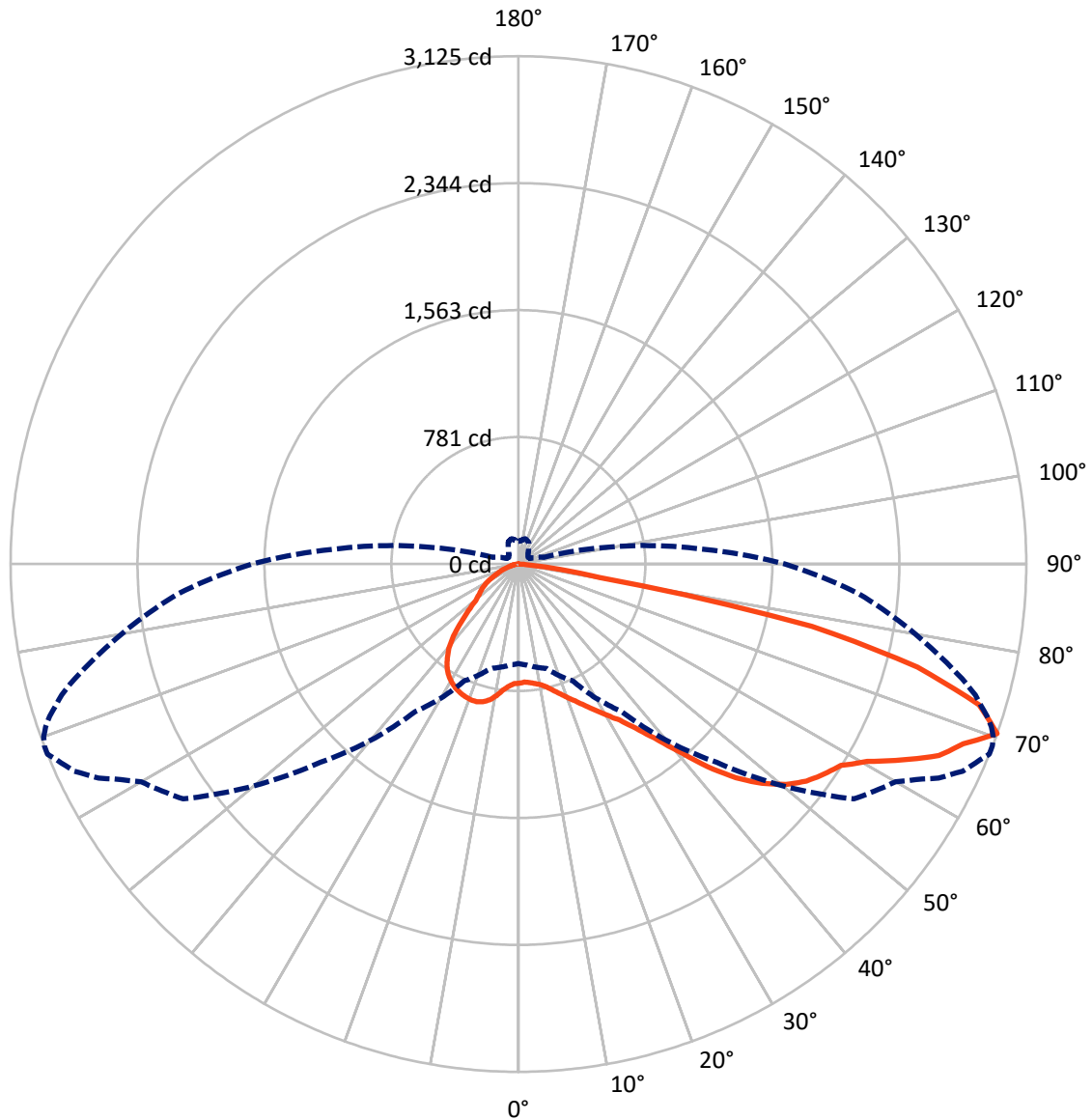


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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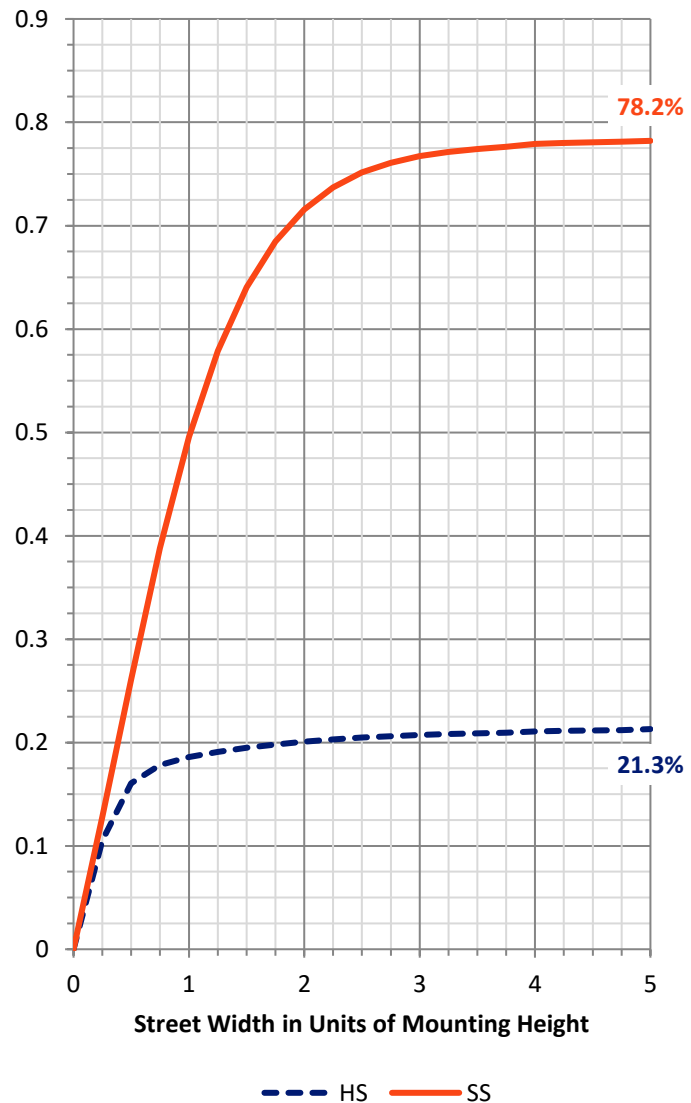
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.6	0.0	1050.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3782.4	0.0	3782.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	4833.0	0.0	4833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.5
10°-20°	243.7	5.0
20°-30°	411.3	8.5
30°-40°	584.4	12.1
40°-50°	802.0	16.6
50°-60°	967.6	20.0
60°-70°	1043.4	21.6
70°-80°	652.1	13.5
80°-90°	54.0	1.1
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°	4833.0	100.0
0°-180°	4833.0	100.0



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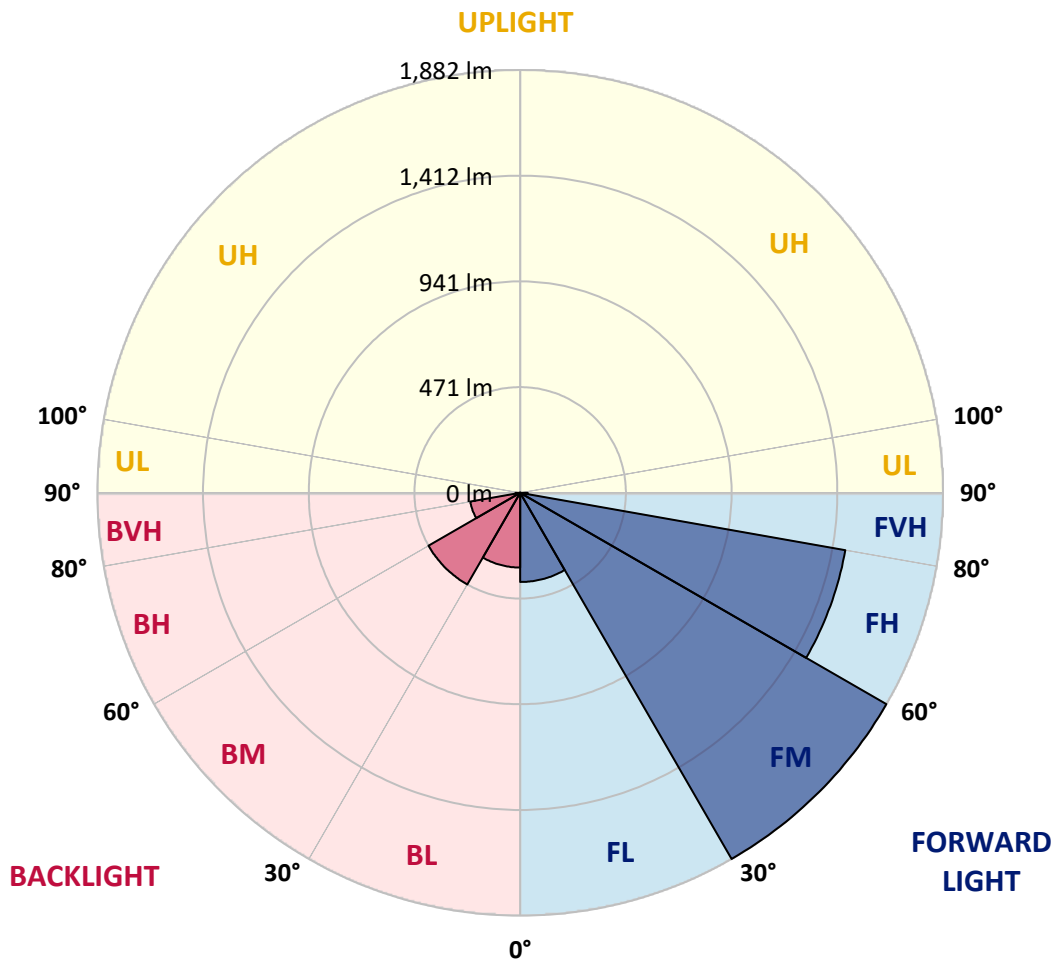
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.0	8.2			
FM (30°-60°)	1882.4	38.9			
FH (60°-80°)	1469.8	30.4			G1/1800
FVH (80°-90°)	33.2	0.7			G1/100
BL (0°-30°)	332.7	6.9	B1/500		
BM (30°-60°)	471.4	9.8	B1/1000		
BH (60°-80°)	225.6	4.7	B1/500		G1/500
BVH (80°-90°)	20.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	739.4	738.9	740.5	732.5	730.9	731.4	732.5	728.2	727.7	727.7	727.2
5°	751.6	750.6	752.1	744.2	740.5	739.4	739.9	735.7	735.1	734.6	733.6
7.5°	773.4	770.7	771.8	763.8	757.5	753.7	751.6	747.9	747.9	746.8	745.8
10°	796.8	796.2	796.2	787.7	780.3	773.4	765.4	762.2	762.8	761.7	761.2
12.5°	825.4	825.4	827.0	818.0	814.8	805.3	790.4	787.2	786.1	785.1	783.5
15°	865.3	864.2	867.4	856.8	853.6	842.4	824.9	818.0	815.4	815.9	814.8
17.5°	916.8	913.6	911.0	898.2	894.5	877.5	858.4	851.5	848.8	849.4	847.8
20°	970.5	969.9	964.6	945.0	936.5	914.2	896.1	884.9	883.3	880.7	880.7
22.5°	1032.6	1034.7	1026.8	1003.9	987.5	959.3	935.4	923.7	920.5	920.0	917.9
25°	1103.8	1104.3	1098.5	1076.2	1049.6	1011.9	979.5	968.9	965.1	964.1	962.5
27.5°	1180.3	1184.5	1175.5	1157.4	1122.9	1074.0	1028.9	1021.5	1020.4	1017.2	1015.6
30°	1261.0	1261.5	1255.7	1244.0	1204.7	1144.2	1083.1	1079.4	1080.4	1077.2	1075.1
32.5°	1332.7	1334.8	1339.6	1331.1	1293.4	1225.4	1145.7	1148.4	1148.9	1146.8	1145.7
35°	1387.4	1392.2	1411.9	1419.3	1389.0	1321.6	1221.7	1233.4	1233.9	1227.5	1228.6
37.5°	1440.0	1441.1	1465.0	1482.0	1471.9	1418.2	1322.1	1336.4	1337.5	1331.1	1329.5
40°	1474.5	1479.9	1508.0	1525.0	1536.7	1506.4	1428.3	1453.3	1457.0	1451.7	1460.2
42.5°	1451.7	1453.8	1517.6	1566.4	1590.3	1599.9	1541.5	1595.1	1603.1	1601.0	1611.1
45°	1424.6	1425.7	1488.4	1581.8	1636.0	1689.7	1678.5	1759.3	1768.3	1767.2	1776.8
47.5°	1385.8	1392.2	1459.1	1572.8	1678.0	1772.5	1833.1	1888.9	1897.4	1899.5	1910.6
50°	1344.4	1355.0	1431.0	1559.0	1713.0	1859.7	1940.4	1979.7	1989.8	1997.8	2012.6
52.5°	1295.5	1305.1	1388.5	1534.0	1729.5	1953.7	2021.7	2063.6	2075.8	2084.3	2099.7
55°	1233.4	1245.1	1330.1	1491.5	1730.0	2008.4	2093.4	2130.6	2143.8	2156.6	2174.1
57.5°	1165.9	1179.7	1262.1	1425.7	1710.4	2013.7	2137.5	2172.0	2185.8	2199.1	2218.2
60°	1085.2	1100.6	1184.5	1341.2	1665.8	1999.9	2154.5	2224.0	2255.4	2278.7	2311.2
62.5°	1000.2	1011.4	1083.1	1248.3	1589.8	2005.7	2277.7	2390.3	2410.5	2442.9	2472.6
65°	893.4	906.2	966.2	1124.5	1463.9	2022.7	2447.7	2581.5	2615.0	2637.3	2671.8
67.5°	768.1	780.3	825.4	981.6	1317.9	1934.5	2532.1	2665.4	2704.2	2744.6	2795.6
70°	612.4	624.7	665.0	794.6	1108.0	1725.3	2519.4	2680.3	2747.2	2816.8	2901.3
72.5°	460.5	469.0	495.1	566.2	788.3	1398.1	2388.7	2578.9	2664.4	2736.6	2840.7
75°	309.1	313.9	347.9	397.3	462.1	907.8	1998.3	2150.7	2259.1	2321.2	2398.3
77.5°	109.4	105.7	134.4	171.6	237.4	321.9	1272.2	1423.0	1562.7	1589.3	1602.6
80°	33.5	35.1	63.2	78.6	112.6	167.3	340.5	401.0	445.1	443.0	477.0
82.5°	26.0	27.6	44.6	48.3	44.1	63.2	163.1	180.6	190.7	188.6	191.2
85°	15.9	17.0	20.7	20.2	20.2	28.2	55.8	42.0	48.9	44.6	47.3
87.5°	9.0	9.0	9.0	9.0	7.4	6.4	11.7	5.8	5.8	5.3	5.3
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	727.2	727.7	727.7	727.7	727.7	727.7	727.7	727.2	727.2	727.2	727.2
5°	733.0	733.0	733.0	733.0	733.0	733.0	732.5	732.0	731.4	731.4	731.4
7.5°	744.7	743.6	743.1	743.1	743.1	743.1	742.6	742.1	741.0	741.0	741.5
10°	759.6	758.5	758.0	755.9	755.3	754.8	754.8	754.3	753.7	754.3	754.8
12.5°	781.9	782.4	780.3	777.6	776.6	774.5	774.5	774.5	774.5	775.5	777.1
15°	812.2	812.7	810.6	809.0	807.9	804.7	803.7	804.7	805.8	806.9	807.9
17.5°	846.2	846.2	844.0	843.0	841.9	839.8	840.3	840.3	839.8	840.3	841.4
20°	880.2	879.6	879.6	879.6	879.6	878.0	879.6	879.6	878.6	877.0	877.0
22.5°	917.3	917.9	918.9	921.1	920.0	920.0	920.0	922.1	921.6	919.5	919.5
25°	963.0	964.6	966.7	968.9	968.3	969.9	969.9	972.1	971.0	971.5	974.7
27.5°	1018.3	1019.3	1020.9	1018.8	1022.5	1026.8	1026.8	1026.8	1033.1	1035.8	1039.5
30°	1078.8	1078.3	1079.9	1077.8	1081.5	1085.2	1088.9	1095.3	1102.2	1104.8	1111.8
32.5°	1146.3	1145.2	1146.3	1144.2	1144.7	1151.1	1162.7	1169.7	1175.0	1184.0	1192.5
35°	1233.4	1232.9	1235.0	1238.7	1240.3	1245.6	1263.1	1265.8	1280.1	1286.0	1297.1
37.5°	1339.6	1341.8	1347.6	1356.1	1357.7	1371.0	1381.1	1404.4	1417.7	1425.7	1434.7
40°	1469.2	1478.8	1491.0	1499.5	1511.2	1538.8	1559.5	1582.9	1601.5	1613.2	1628.6
42.5°	1627.0	1648.8	1663.6	1679.6	1705.1	1734.3	1767.2	1793.3	1815.6	1827.8	1849.0
45°	1791.7	1811.8	1830.4	1853.3	1876.6	1908.0	1938.8	1962.2	1980.2	1987.7	1993.5
47.5°	1922.3	1943.0	1963.8	1988.7	2017.4	2049.3	2074.8	2087.0	2092.8	2091.2	2088.6
50°	2028.0	2049.3	2075.3	2104.5	2132.7	2156.0	2169.3	2170.9	2170.9	2167.2	2162.4
52.5°	2118.9	2143.3	2172.0	2200.7	2219.3	2230.4	2236.8	2237.3	2237.3	2233.6	2228.3
55°	2193.2	2223.0	2250.1	2269.2	2282.5	2286.2	2289.4	2288.8	2287.2	2283.0	2277.7
57.5°	2242.1	2267.6	2297.3	2319.1	2339.3	2345.7	2355.8	2365.3	2377.5	2380.2	2389.8
60°	2335.6	2376.5	2403.0	2437.0	2466.3	2482.7	2502.9	2515.7	2527.9	2525.7	2522.6
62.5°	2494.9	2540.6	2576.7	2623.5	2653.8	2666.0	2678.7	2679.3	2678.2	2665.4	2654.3
65°	2707.9	2755.2	2791.9	2825.9	2843.4	2834.9	2831.2	2812.6	2794.0	2766.9	2742.5
67.5°	2844.5	2887.5	2919.3	2939.5	2952.3	2944.3	2932.6	2908.2	2879.0	2844.5	2811.0
70°	2957.1	3016.0	3050.5	3085.6	3125.4	3124.4	3109.5	3077.6	3032.5	2976.2	2924.7
72.5°	2901.8	2944.8	2964.5	2972.5	2964.0	2950.7	2926.3	2881.6	2848.7	2780.7	2749.4
75°	2457.8	2509.8	2525.7	2542.2	2536.4	2536.9	2509.3	2471.0	2449.8	2383.4	2367.5
77.5°	1725.8	1734.8	1768.8	1825.1	1846.9	1878.8	1867.1	1832.6	1783.2	1719.4	1696.6
80°	464.8	489.2	495.1	518.4	507.3	536.0	532.8	505.7	489.2	468.5	473.8
82.5°	190.2	197.6	192.8	191.2	201.8	198.7	198.7	196.5	190.7	191.8	189.6
85°	42.5	47.3	46.7	43.0	41.4	48.9	45.7	46.7	42.5	42.0	44.6
87.5°	5.3	5.3	5.3	5.3	4.8	5.3	4.8	4.8	4.8	4.8	4.8
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):

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	727.7	726.7	725.6	733.6	734.1	736.7	740.5	747.4	750.6	754.8	761.2
5°	732.5	733.6	732.5	741.5	748.4	756.9	766.0	778.7	787.7	802.6	816.4
7.5°	743.1	744.2	745.8	753.2	768.1	787.7	812.7	840.9	859.4	878.0	894.0
10°	756.4	758.0	760.6	768.1	800.5	831.3	860.0	880.7	893.4	914.7	923.2
12.5°	777.1	779.2	787.2	801.5	841.4	861.0	880.2	894.0	900.9	919.5	922.1
15°	806.9	815.4	830.2	844.0	870.1	878.6	886.5	890.3	889.2	899.8	896.1
17.5°	839.8	857.3	874.3	880.7	887.1	884.9	880.2	869.5	855.7	856.3	849.9
20°	876.4	904.1	909.9	907.8	895.0	881.8	858.9	831.8	805.3	802.6	786.7
22.5°	919.5	947.1	942.3	931.2	898.8	869.5	827.6	784.5	744.2	730.4	711.8
25°	976.8	992.2	979.5	958.2	904.1	854.7	789.3	725.6	667.2	635.3	611.4
27.5°	1042.2	1041.6	1020.4	989.1	910.4	831.3	742.1	652.8	569.4	523.7	491.9
30°	1116.0	1093.7	1063.9	1021.5	913.1	800.5	683.6	569.4	465.3	407.9	389.9
32.5°	1189.8	1153.7	1110.2	1051.7	909.9	766.0	619.4	472.2	359.1	330.9	321.9
35°	1292.9	1244.5	1185.1	1103.8	904.1	718.7	532.8	351.6	289.5	268.2	263.5
37.5°	1434.2	1389.0	1306.2	1181.3	904.1	652.3	411.7	264.5	221.0	196.5	205.6
40°	1629.1	1602.0	1487.3	1308.8	909.4	571.0	278.9	192.8	145.5	142.4	173.7
42.5°	1846.9	1747.0	1610.0	1424.1	917.9	458.4	180.6	133.9	123.2	133.9	162.0
45°	1987.1	1821.4	1671.6	1469.8	923.2	326.1	130.7	122.7	117.4	127.5	154.0
47.5°	2078.0	1899.0	1727.9	1495.8	879.6	219.9	121.1	117.9	113.1	123.2	151.4
50°	2153.9	1964.3	1774.1	1497.9	772.3	164.1	119.0	113.1	110.0	119.5	149.3
52.5°	2219.3	2023.8	1819.3	1483.6	686.8	145.0	114.7	108.9	106.2	115.8	144.5
55°	2269.7	2085.9	1857.5	1443.2	614.6	142.4	111.5	104.1	102.5	115.8	144.5
57.5°	2387.1	2159.2	1871.3	1415.1	535.4	138.1	108.4	99.9	100.9	117.4	150.3
60°	2514.1	2198.5	1863.4	1404.4	452.6	130.7	104.1	96.1	100.4	125.4	185.9
62.5°	2633.6	2210.2	1869.2	1399.7	361.2	119.5	97.7	93.5	99.3	138.6	222.0
65°	2711.7	2224.0	1850.6	1372.6	267.7	107.3	90.8	92.4	100.9	165.7	186.4
67.5°	2771.7	2199.6	1780.0	1275.4	201.3	95.6	81.8	87.1	103.6	152.4	161.5
70°	2856.7	2102.9	1638.1	1096.9	159.4	81.8	72.2	82.3	107.3	148.2	160.9
72.5°	2672.4	1860.2	1352.4	829.2	119.5	66.9	59.5	77.0	110.0	149.3	160.4
75°	2278.2	1437.9	959.3	447.3	87.1	51.5	46.7	69.1	106.8	147.7	153.5
77.5°	1563.3	802.1	395.2	149.8	63.7	37.2	34.0	53.6	96.7	137.6	156.7
80°	418.6	200.8	147.7	101.5	44.6	27.1	25.0	34.5	77.6	121.1	149.8
82.5°	183.3	130.7	96.7	66.4	31.3	18.6	17.0	19.7	49.9	96.1	133.3
85°	39.8	29.2	23.4	18.1	12.7	9.6	9.0	11.7	19.7	56.3	97.7
87.5°	4.2	3.7	3.7	3.7	3.7	3.7	3.2	3.7	5.8	15.9	43.6
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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CATALOG NUMBER: VERD-A018-E-U-T3-AP

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	733.6	733.6
2.5°	770.2	770.7
5°	829.7	830.2
7.5°	905.1	907.8
10°	930.6	931.7
12.5°	928.0	928.0
15°	898.2	895.0
17.5°	851.5	847.2
20°	787.2	784.5
22.5°	702.7	698.5
25°	597.0	598.1
27.5°	482.8	474.3
30°	391.5	392.5
32.5°	334.6	336.8
35°	268.8	264.0
37.5°	214.6	210.9
40°	200.8	193.9
42.5°	178.5	176.4
45°	168.4	167.9
47.5°	168.9	170.0
50°	170.0	170.5
52.5°	159.9	159.4
55°	151.4	149.3
57.5°	163.6	162.0
60°	201.3	201.3
62.5°	202.9	196.0
65°	174.2	176.9
67.5°	149.8	148.2
70°	143.4	139.7
72.5°	134.4	130.1
75°	117.4	111.0
77.5°	112.1	100.4
80°	114.2	94.0
82.5°	113.7	82.9
85°	100.9	86.6
87.5°	61.1	59.0
90°	0.0	0.0

(END OF REPORT)