

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: P129498

Luminaire Tested: **VERD-A01-E-U-T3-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129498
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-A01-E-U-T3-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K LED AND TYPE III OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5716 lumens
Efficiency: N/A
Efficacy: 89.3 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): 64
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

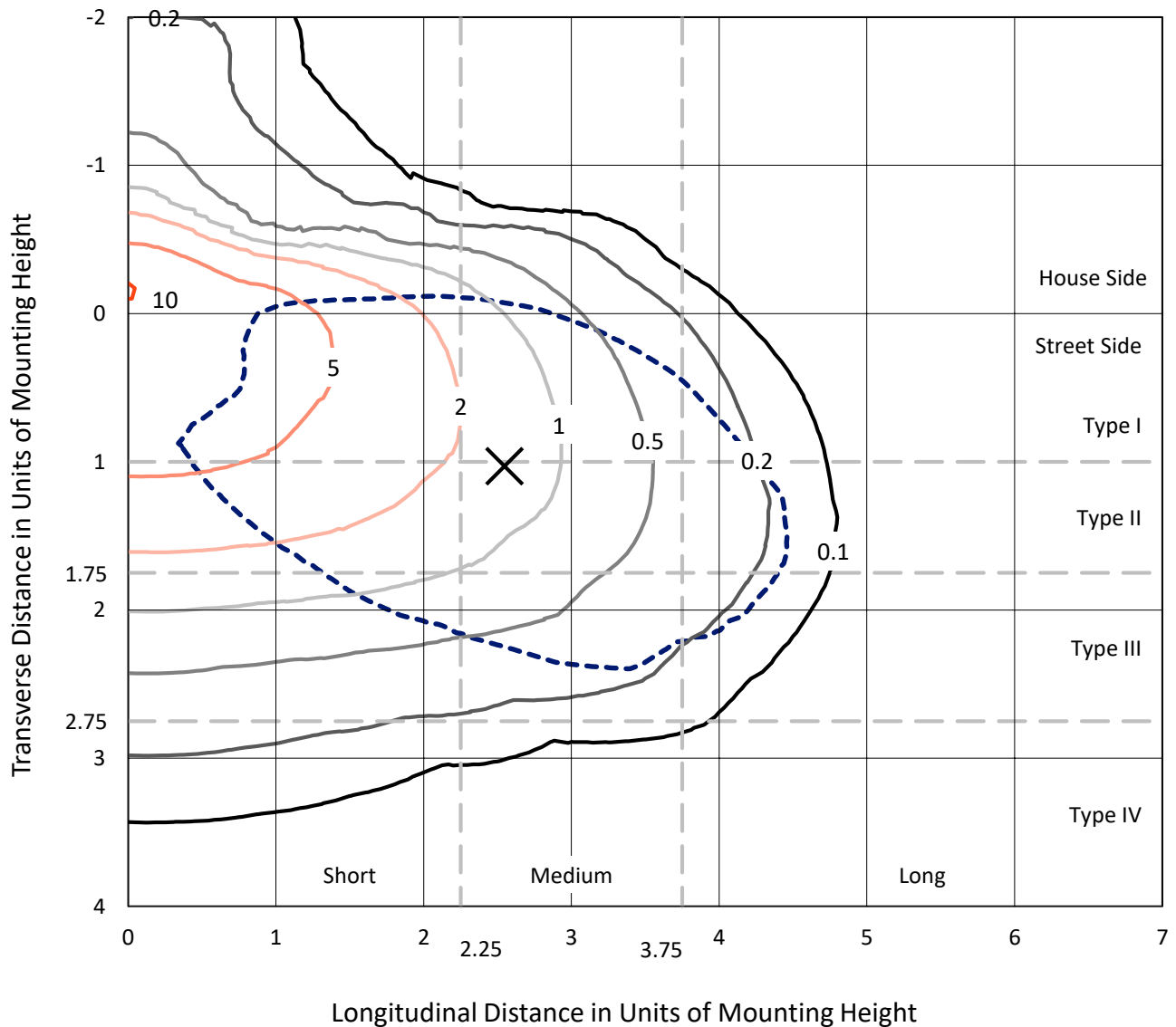


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

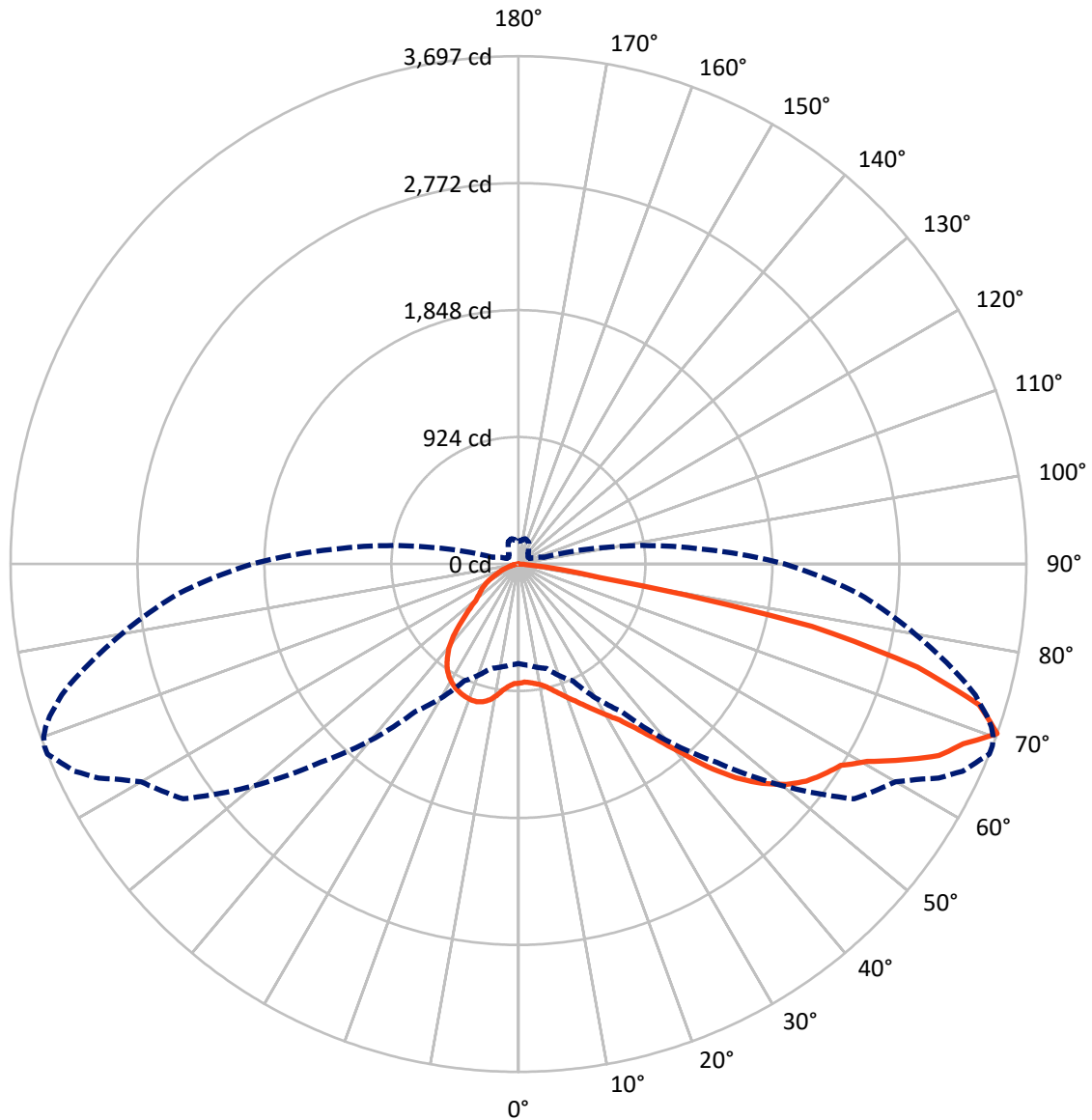


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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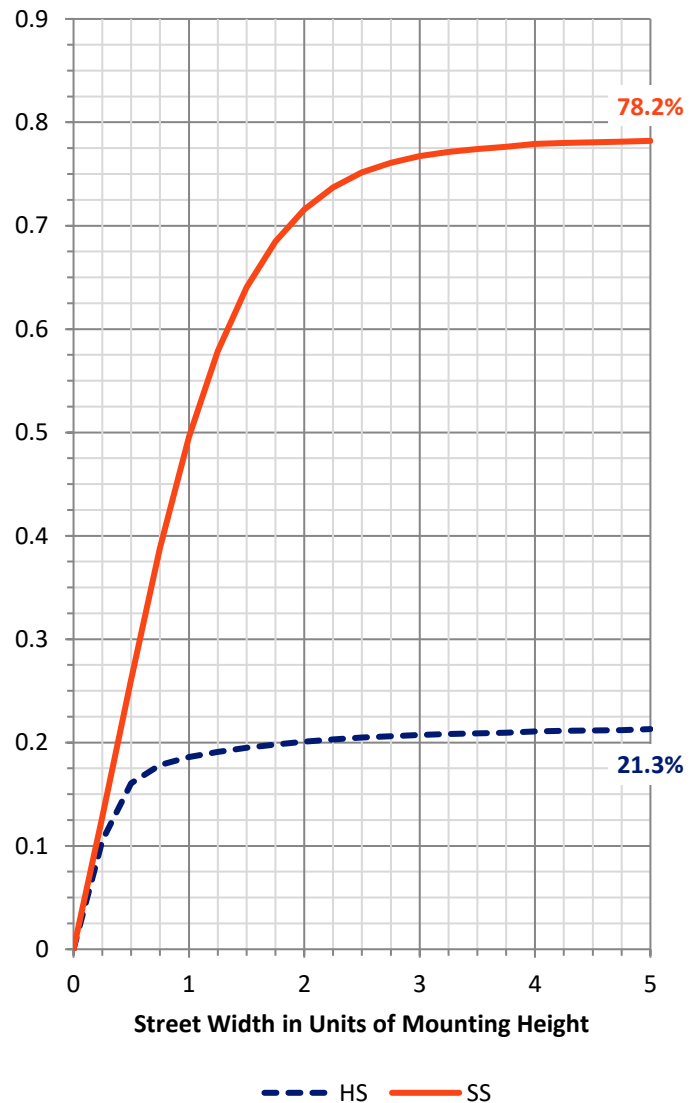
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.5	0.0	1242.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4473.5	0.0	4473.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	5716.0	0.0	5716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.5
10°-20°	288.2	5.0
20°-30°	486.4	8.5
30°-40°	691.1	12.1
40°-50°	948.5	16.6
50°-60°	1144.3	20.0
60°-70°	1234.0	21.6
70°-80°	771.2	13.5
80°-90°	63.9	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°	5716.0	100.0
0°-180°	5716.0	100.0

Coefficient of Utilization



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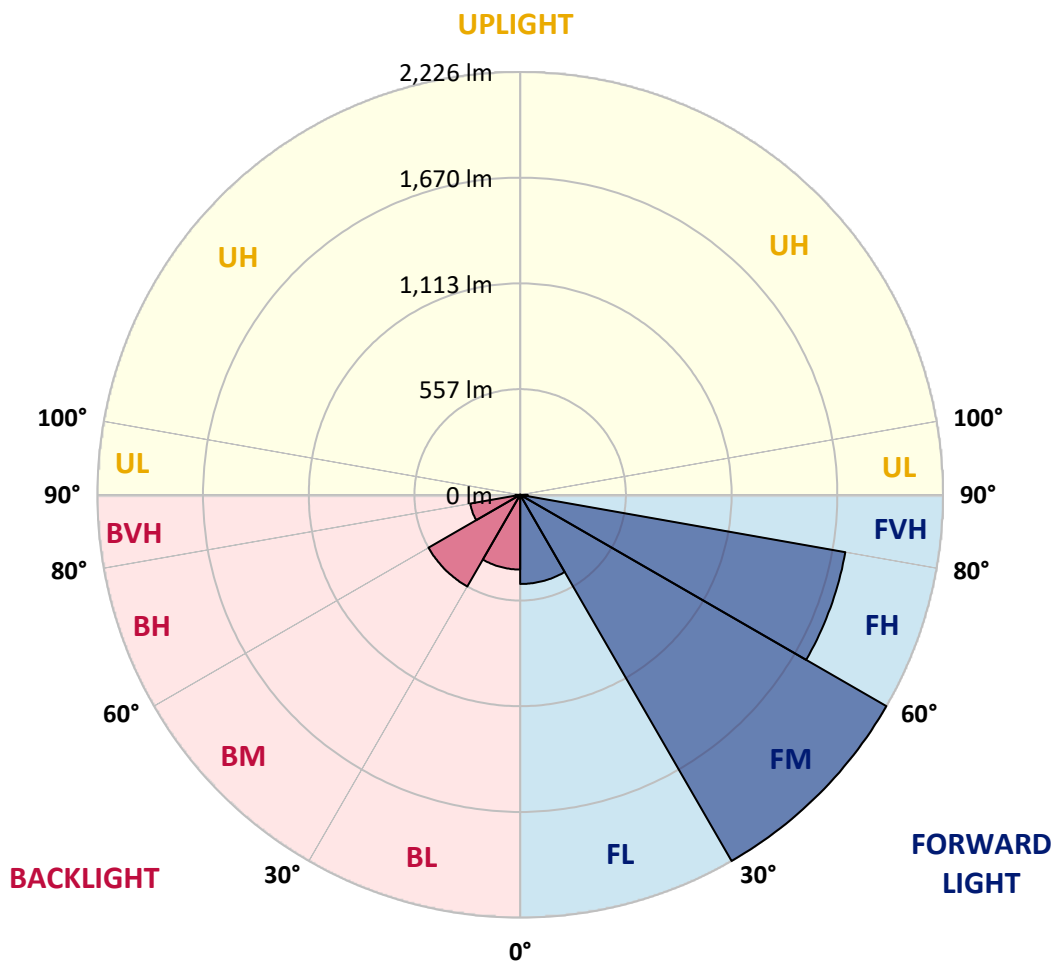
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.5	8.2			
FM	(30°-60°)	2226.4	38.9			
FH	(60°-80°)	1738.3	30.4			G1/1800
FVH	(80°-90°)	39.3	0.7			G1/100
BL	(0°-30°)	393.5	6.9	B1/500		
BM	(30°-60°)	557.6	9.8	B1/1000		
BH	(60°-80°)	266.9	4.7	B1/500		G1/500
BVH	(80°-90°)	24.6	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°	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6
2.5°	874.5	873.9	875.7	866.3	864.4	865.1	866.3	861.3	860.7	860.7	860.0
5°	888.9	887.7	889.6	880.1	875.7	874.5	875.1	870.1	869.5	868.8	867.6
7.5°	914.7	911.6	912.8	903.4	895.8	891.5	888.9	884.5	884.5	883.3	882.0
10°	942.3	941.7	941.7	931.7	922.9	914.7	905.3	901.5	902.1	900.9	900.2
12.5°	976.3	976.3	978.1	967.5	963.7	952.4	934.8	931.0	929.8	928.5	926.6
15°	1023.4	1022.1	1025.9	1013.3	1009.6	996.4	975.6	967.5	964.3	965.0	963.7
17.5°	1084.3	1080.5	1077.4	1062.3	1057.9	1037.8	1015.2	1007.0	1003.9	1004.5	1002.6
20°	1147.8	1147.1	1140.9	1117.6	1107.6	1081.2	1059.8	1046.6	1044.7	1041.6	1041.6
22.5°	1221.3	1223.8	1214.4	1187.3	1167.9	1134.6	1106.3	1092.5	1088.7	1088.1	1085.6
25°	1305.4	1306.1	1299.2	1272.8	1241.4	1196.8	1158.4	1145.9	1141.5	1140.2	1138.3
27.5°	1395.9	1400.9	1390.3	1368.9	1328.1	1270.3	1216.9	1208.1	1206.8	1203.0	1201.2
30°	1491.4	1492.0	1485.1	1471.3	1424.8	1353.2	1280.9	1276.6	1277.8	1274.0	1271.5
32.5°	1576.2	1578.7	1584.4	1574.3	1529.7	1449.3	1355.1	1358.2	1358.8	1356.3	1355.1
35°	1640.9	1646.6	1669.8	1678.6	1642.8	1563.0	1444.9	1458.7	1459.4	1451.8	1453.1
37.5°	1703.1	1704.4	1732.6	1752.7	1740.8	1677.4	1563.6	1580.6	1581.9	1574.3	1572.4
40°	1744.0	1750.2	1783.5	1803.6	1817.5	1781.6	1689.3	1718.8	1723.2	1716.9	1727.0
42.5°	1716.9	1719.4	1794.8	1852.6	1880.9	1892.2	1823.1	1886.6	1896.0	1893.5	1905.4
45°	1684.9	1686.2	1760.3	1870.9	1934.9	1998.4	1985.2	2080.7	2091.4	2090.1	2101.4
47.5°	1639.0	1646.6	1725.7	1860.2	1984.6	2096.4	2168.0	2234.0	2244.0	2246.5	2259.7
50°	1590.0	1602.6	1692.4	1843.8	2026.0	2199.4	2294.9	2341.4	2353.3	2362.8	2380.3
52.5°	1532.2	1543.5	1642.2	1814.3	2045.5	2310.6	2391.0	2440.7	2455.1	2465.2	2483.4
55°	1458.7	1472.6	1573.1	1764.1	2046.1	2375.3	2475.8	2519.8	2535.5	2550.6	2571.3
57.5°	1379.0	1395.3	1492.7	1686.2	2022.9	2381.6	2528.0	2568.8	2585.1	2600.8	2623.5
60°	1283.5	1301.7	1400.9	1586.3	1970.1	2365.3	2548.1	2630.4	2667.4	2695.1	2733.4
62.5°	1182.9	1196.1	1280.9	1476.3	1880.3	2372.2	2693.8	2827.0	2850.9	2889.2	2924.4
65°	1056.7	1071.8	1142.7	1330.0	1731.4	2392.3	2894.9	3053.2	3092.7	3119.1	3160.0
67.5°	908.4	922.9	976.3	1161.0	1558.6	2288.0	2994.7	3152.4	3198.3	3246.0	3306.3
70°	724.3	738.8	786.5	939.8	1310.5	2040.5	2979.7	3170.0	3249.2	3331.5	3431.4
72.5°	544.7	554.7	585.5	669.7	932.3	1653.5	2825.1	3050.0	3151.2	3236.6	3359.7
75°	365.6	371.3	411.5	469.9	546.6	1073.6	2363.4	2543.7	2671.8	2745.3	2836.4
77.5°	129.4	125.0	158.9	202.9	280.8	380.7	1504.6	1683.0	1848.2	1879.6	1895.4
80°	39.6	41.5	74.8	93.0	133.2	197.9	402.7	474.3	526.5	523.9	564.1
82.5°	30.8	32.7	52.8	57.2	52.1	74.8	192.9	213.6	225.5	223.0	226.2
85°	18.8	20.1	24.5	23.9	23.9	33.3	66.0	49.6	57.8	52.8	55.9
87.5°	10.7	10.7	10.7	10.7	8.8	7.5	13.8	6.9	6.9	6.3	6.3
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°	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6
2.5°	860.0	860.7	860.7	860.7	860.7	860.7	860.7	860.0	860.0	860.0	860.0
5°	866.9	866.9	866.9	866.9	866.9	866.9	866.3	865.7	865.1	865.1	865.1
7.5°	880.8	879.5	878.9	878.9	878.9	878.9	878.3	877.6	876.4	876.4	877.0
10°	898.4	897.1	896.5	894.0	893.3	892.7	892.7	892.1	891.5	892.1	892.7
12.5°	924.7	925.4	922.9	919.7	918.5	916.0	916.0	916.0	916.0	917.2	919.1
15°	960.6	961.2	958.7	956.8	955.5	951.8	950.5	951.8	953.0	954.3	955.5
17.5°	1000.8	1000.8	998.2	997.0	995.7	993.2	993.9	993.9	993.2	993.9	995.1
20°	1041.0	1040.3	1040.3	1040.3	1040.3	1038.5	1040.3	1040.3	1039.1	1037.2	1037.2
22.5°	1084.9	1085.6	1086.8	1089.3	1088.1	1088.1	1088.1	1090.6	1090.0	1087.5	1087.5
25°	1139.0	1140.9	1143.4	1145.9	1145.3	1147.1	1147.1	1149.7	1148.4	1149.0	1152.8
27.5°	1204.3	1205.6	1207.4	1204.9	1209.3	1214.4	1214.4	1214.4	1221.9	1225.0	1229.4
30°	1275.9	1275.3	1277.2	1274.7	1279.1	1283.5	1287.9	1295.4	1303.6	1306.7	1314.9
32.5°	1355.7	1354.5	1355.7	1353.2	1353.8	1361.4	1375.2	1383.3	1389.6	1400.3	1410.4
35°	1458.7	1458.1	1460.6	1465.0	1466.9	1473.2	1493.9	1497.1	1514.0	1520.9	1534.1
37.5°	1584.4	1586.9	1593.8	1603.9	1605.7	1621.4	1633.4	1661.0	1676.7	1686.2	1696.8
40°	1737.7	1749.0	1763.4	1773.5	1787.3	1820.0	1844.5	1872.1	1894.1	1907.9	1926.1
42.5°	1924.3	1950.0	1967.6	1986.4	2016.6	2051.2	2090.1	2120.9	2147.3	2161.7	2186.8
45°	2119.0	2142.9	2164.9	2191.9	2219.5	2256.6	2293.0	2320.7	2342.0	2350.8	2357.7
47.5°	2273.5	2298.0	2322.5	2352.1	2386.0	2423.7	2453.8	2468.3	2475.2	2473.3	2470.2
50°	2398.6	2423.7	2454.5	2489.0	2522.3	2550.0	2565.7	2567.6	2567.6	2563.2	2557.5
52.5°	2506.0	2534.9	2568.8	2602.7	2624.7	2637.9	2645.5	2646.1	2646.1	2641.7	2635.4
55°	2593.9	2629.1	2661.2	2683.8	2699.5	2703.9	2707.6	2707.0	2705.1	2700.1	2693.8
57.5°	2651.7	2681.9	2717.1	2742.8	2766.7	2774.2	2786.2	2797.5	2811.9	2815.1	2826.4
60°	2762.3	2810.7	2842.1	2882.3	2916.8	2936.3	2960.2	2975.3	2989.7	2987.2	2983.4
62.5°	2950.8	3004.8	3047.5	3102.8	3138.6	3153.1	3168.1	3168.8	3167.5	3152.4	3139.2
65°	3202.7	3258.6	3301.9	3342.2	3362.9	3352.8	3348.4	3326.4	3304.5	3272.4	3243.5
67.5°	3364.1	3415.0	3452.7	3476.6	3491.7	3482.2	3468.4	3439.5	3405.0	3364.1	3324.6
70°	3497.3	3567.1	3607.9	3649.4	3696.5	3695.2	3677.6	3639.9	3586.5	3519.9	3459.0
72.5°	3432.0	3482.9	3506.1	3515.5	3505.5	3489.8	3460.9	3408.1	3369.2	3288.8	3251.7
75°	2906.8	2968.4	2987.2	3006.7	2999.8	3000.4	2967.7	2922.5	2897.4	2818.8	2800.0
77.5°	2041.1	2051.8	2092.0	2158.6	2184.3	2222.0	2208.2	2167.4	2108.9	2033.6	2006.5
80°	549.7	578.6	585.5	613.1	600.0	633.9	630.1	598.1	578.6	554.1	560.4
82.5°	224.9	233.7	228.0	226.2	238.7	235.0	235.0	232.4	225.5	226.8	224.3
85°	50.3	55.9	55.3	50.9	49.0	57.8	54.0	55.3	50.3	49.6	52.8
87.5°	6.3	6.3	6.3	6.3	5.7	6.3	5.7	5.7	5.7	5.7	5.7
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°	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6
2.5°	860.7	859.4	858.2	867.6	868.2	871.3	875.7	883.9	887.7	892.7	900.2
5°	866.3	867.6	866.3	877.0	885.2	895.2	905.9	921.0	931.7	949.2	965.6
7.5°	878.9	880.1	882.0	890.8	908.4	931.7	961.2	994.5	1016.5	1038.5	1057.3
10°	894.6	896.5	899.6	908.4	946.7	983.2	1017.1	1041.6	1056.7	1081.8	1091.9
12.5°	919.1	921.6	931.0	948.0	995.1	1018.4	1041.0	1057.3	1065.5	1087.5	1090.6
15°	954.3	964.3	981.9	998.2	1029.0	1039.1	1048.5	1052.9	1051.6	1064.2	1059.8
17.5°	993.2	1014.0	1034.1	1041.6	1049.1	1046.6	1041.0	1028.4	1012.1	1012.7	1005.2
20°	1036.6	1069.2	1076.1	1073.6	1058.6	1042.9	1015.8	983.8	952.4	949.2	930.4
22.5°	1087.5	1120.1	1114.5	1101.3	1063.0	1028.4	978.8	927.9	880.1	863.8	841.8
25°	1155.3	1173.5	1158.4	1133.3	1069.2	1010.8	933.5	858.2	789.0	751.4	723.1
27.5°	1232.6	1231.9	1206.8	1169.8	1076.8	983.2	877.6	772.1	673.5	619.4	581.7
30°	1319.9	1293.5	1258.3	1208.1	1079.9	946.7	808.5	673.5	550.3	482.5	461.1
32.5°	1407.2	1364.5	1313.0	1243.9	1076.1	905.9	732.5	558.5	424.7	391.4	380.7
35°	1529.1	1471.9	1401.6	1305.4	1069.2	850.0	630.1	415.9	342.4	317.3	311.6
37.5°	1696.2	1642.8	1544.8	1397.2	1069.2	771.5	486.9	312.9	261.3	232.4	243.1
40°	1926.8	1894.7	1759.0	1547.9	1075.5	675.3	329.8	228.0	172.1	168.4	205.4
42.5°	2184.3	2066.2	1904.1	1684.3	1085.6	542.2	213.6	158.3	145.7	158.3	191.6
45°	2350.2	2154.2	1977.0	1738.3	1091.9	385.7	154.5	145.1	138.8	150.8	182.2
47.5°	2457.6	2245.9	2043.6	1769.1	1040.3	260.1	143.2	139.5	133.8	145.7	179.0
50°	2547.4	2323.2	2098.3	1771.6	913.4	194.1	140.7	133.8	130.0	141.4	176.5
52.5°	2624.7	2393.5	2151.7	1754.6	812.3	171.5	135.7	128.8	125.6	137.0	170.9
55°	2684.4	2467.0	2196.9	1706.9	726.9	168.4	131.9	123.1	121.2	137.0	170.9
57.5°	2823.2	2553.7	2213.2	1673.6	633.2	163.3	128.2	118.1	119.4	138.8	177.8
60°	2973.4	2600.2	2203.8	1661.0	535.2	154.5	123.1	113.7	118.7	148.3	219.9
62.5°	3114.7	2614.0	2210.7	1655.4	427.2	141.4	115.6	110.6	117.5	164.0	262.6
65°	3207.1	2630.4	2188.7	1623.3	316.6	126.9	107.4	109.3	119.4	196.0	220.5
67.5°	3278.1	2601.5	2105.2	1508.4	238.1	113.1	96.7	103.0	122.5	180.3	191.0
70°	3378.6	2487.1	1937.4	1297.3	188.5	96.7	85.4	97.4	126.9	175.3	190.4
72.5°	3160.6	2200.0	1599.5	980.7	141.4	79.2	70.4	91.1	130.0	176.5	189.7
75°	2694.5	1700.6	1134.6	529.0	103.0	60.9	55.3	81.7	126.3	174.6	181.6
77.5°	1848.9	948.6	467.4	177.2	75.4	44.0	40.2	63.5	114.3	162.7	185.3
80°	495.0	237.5	174.6	120.0	52.8	32.0	29.5	40.8	91.7	143.2	177.2
82.5°	216.7	154.5	114.3	78.5	37.1	22.0	20.1	23.2	59.1	113.7	157.7
85°	47.1	34.6	27.6	21.4	15.1	11.3	10.7	13.8	23.2	66.6	115.6
87.5°	5.0	4.4	4.4	4.4	4.4	4.4	3.8	4.4	6.9	18.8	51.5
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-A01-E-U-T3-AP

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	867.6	867.6
2.5°	910.9	911.6
5°	981.3	981.9
7.5°	1070.5	1073.6
10°	1100.6	1101.9
12.5°	1097.5	1097.5
15°	1062.3	1058.6
17.5°	1007.0	1002.0
20°	931.0	927.9
22.5°	831.1	826.1
25°	706.1	707.4
27.5°	571.1	561.0
30°	463.0	464.3
32.5°	395.8	398.3
35°	317.9	312.2
37.5°	253.8	249.4
40°	237.5	229.3
42.5°	211.1	208.6
45°	199.1	198.5
47.5°	199.8	201.0
50°	201.0	201.7
52.5°	189.1	188.5
55°	179.0	176.5
57.5°	193.5	191.6
60°	238.1	238.1
62.5°	240.0	231.8
65°	206.1	209.2
67.5°	177.2	175.3
70°	169.6	165.2
72.5°	158.9	153.9
75°	138.8	131.3
77.5°	132.6	118.7
80°	135.1	111.2
82.5°	134.4	98.0
85°	119.4	102.4
87.5°	72.2	69.7
90°	0.0	0.0

(END OF REPORT)