

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: LUMARK

Report Number: P960498

Luminaire Tested: **NAV-SB1C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6743.5 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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: 24 FT



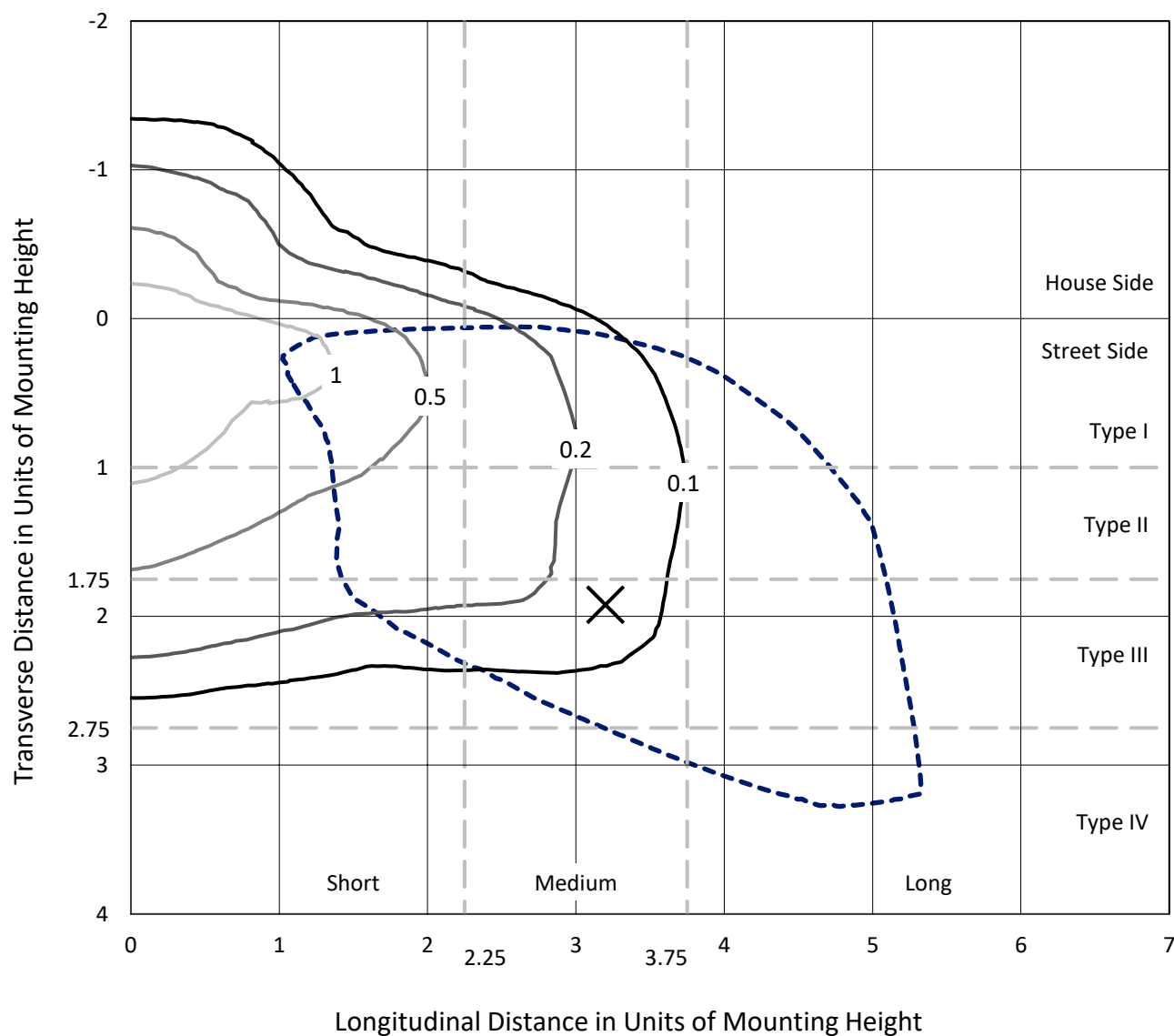
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

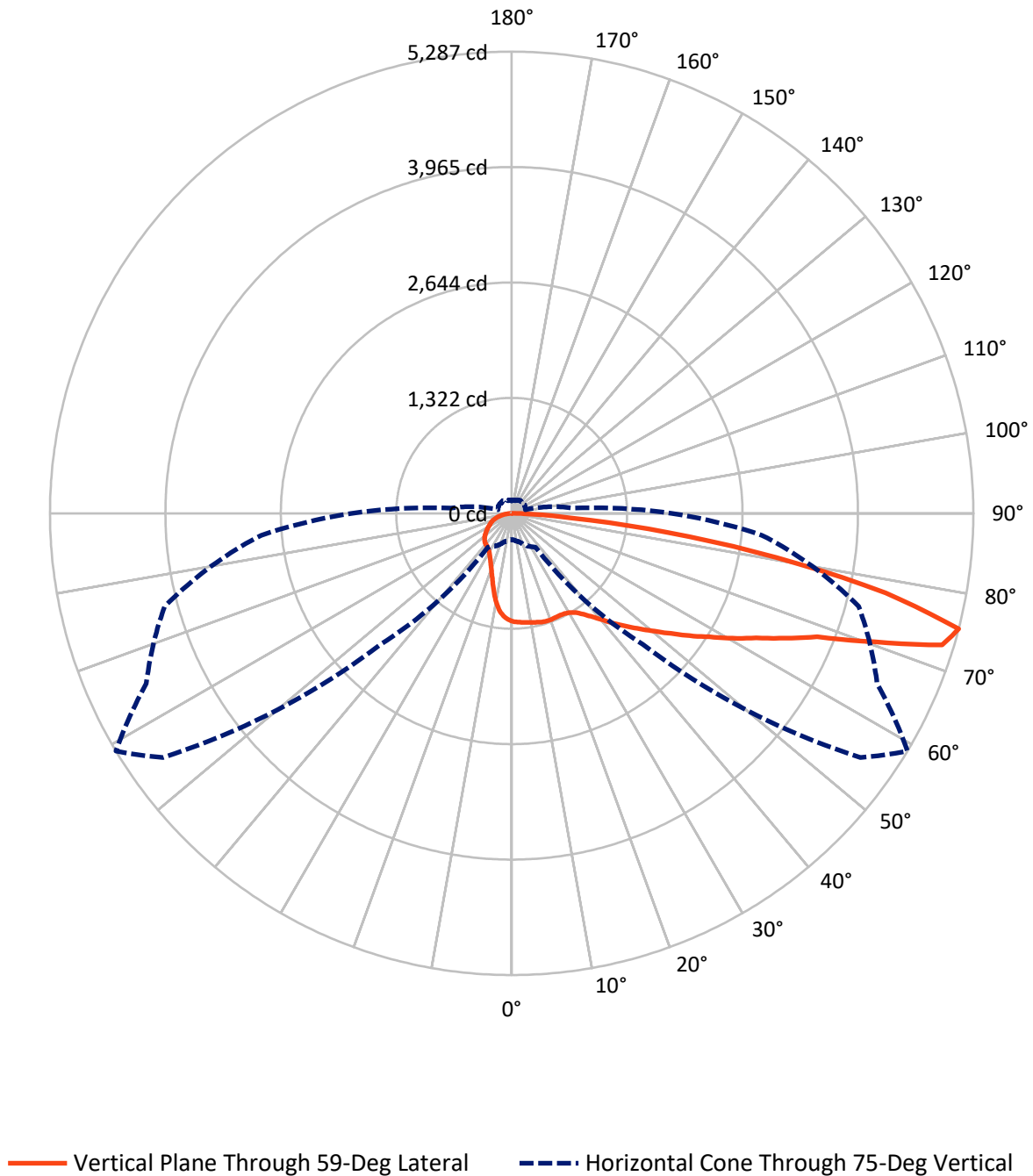
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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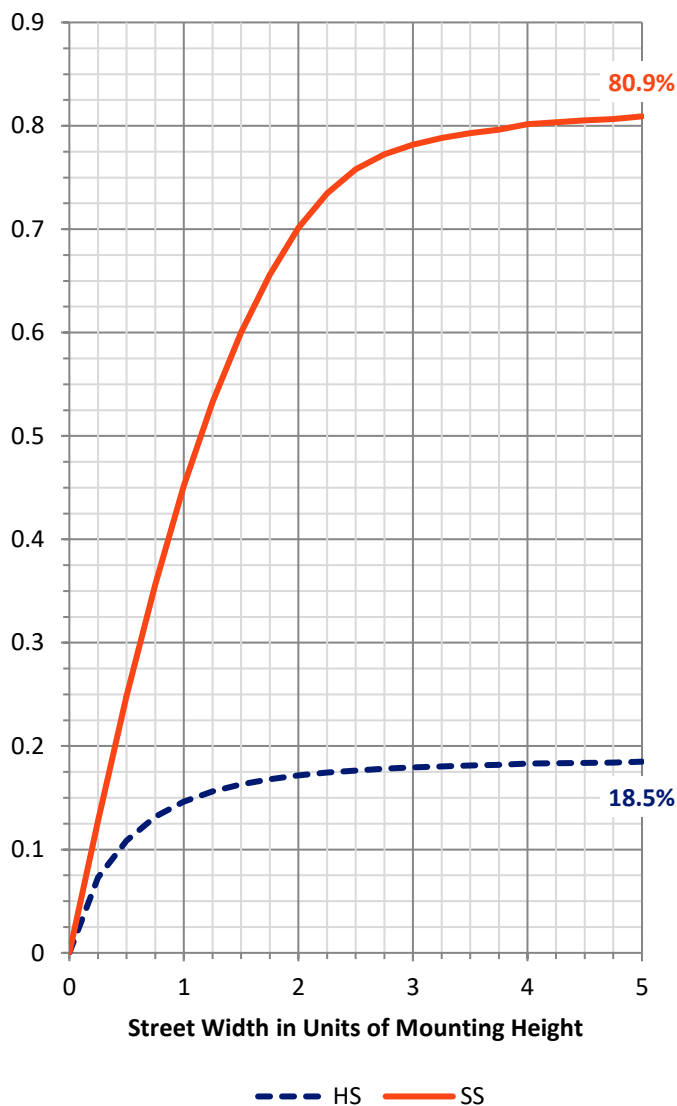
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.8	0.0	1264.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5478.7	0.0	5478.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	6743.5	0.0	6743.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.6
10°-20°	283.7	4.2
20°-30°	430.9	6.4
30°-40°	640.5	9.5
40°-50°	952.5	14.1
50°-60°	1293.0	19.2
60°-70°	1578.5	23.4
70°-80°	1238.8	18.4
80°-90°	214.6	3.2
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°	6743.5	100.0
0°-180°	6743.5	100.0

Coefficient of Utilization



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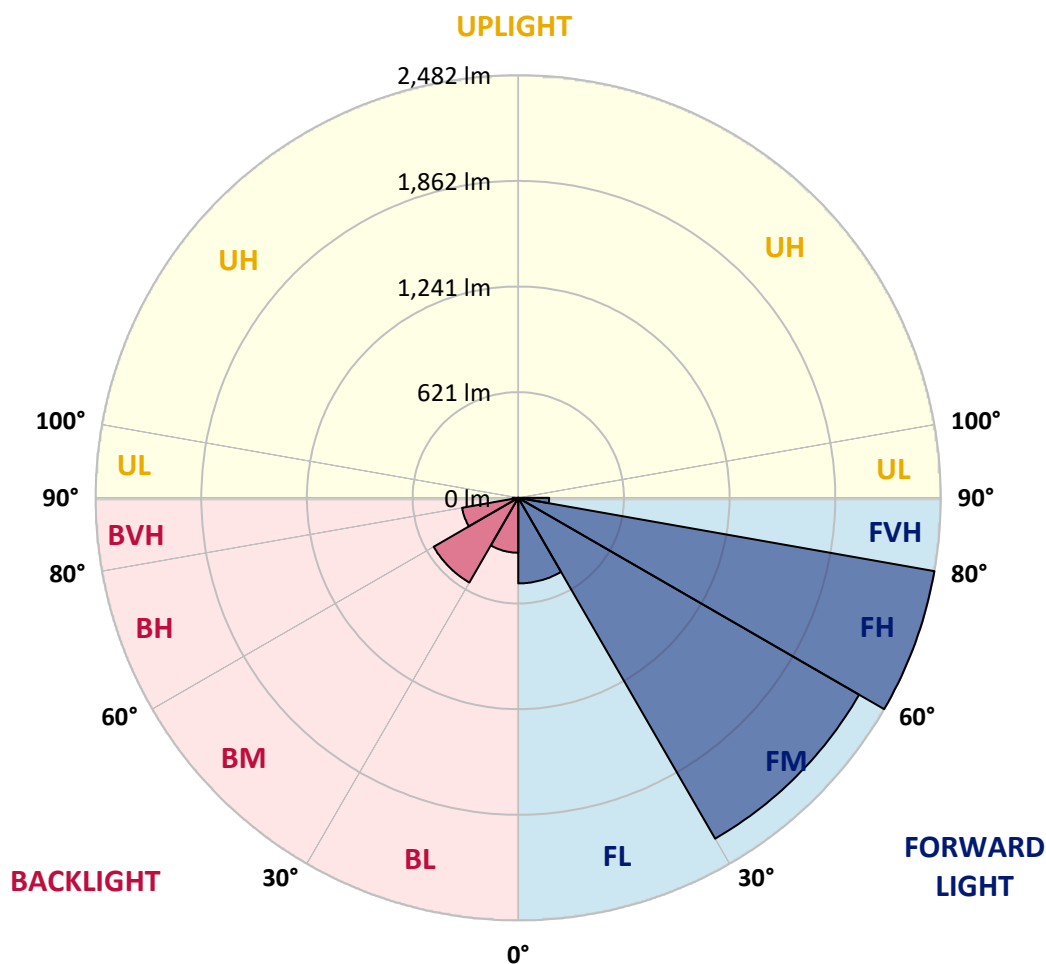
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.8	7.5			
FM	(30°-60°)	2311.9	34.3			
FH	(60°-80°)	2482.2	36.8			G2/5000
FVH	(80°-90°)	181.7	2.7			G2/225
BL	(0°-30°)	322.8	4.8	B1/500		
BM	(30°-60°)	574.1	8.5	B1/1000		
BH	(60°-80°)	335.1	5.0	B1/500		G1/500
BVH	(80°-90°)	32.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1248.2	1243.9	1248.2	1246.5	1245.7	1244.2	1244.7	1247.2	1245.7	1247.5	1241.4
5°	1239.9	1237.4	1241.8	1240.7	1245.4	1246.1	1250.8	1253.7	1255.5	1255.9	1251.2
7.5°	1226.1	1223.6	1229.8	1234.8	1245.0	1247.9	1257.7	1262.4	1265.0	1269.4	1262.4
10°	1175.7	1174.6	1189.8	1209.1	1233.1	1247.9	1262.8	1270.8	1274.8	1286.4	1278.4
12.5°	1086.5	1087.9	1107.9	1144.9	1192.8	1240.7	1268.5	1280.2	1286.4	1300.8	1297.2
15°	1001.2	1000.9	1022.6	1062.2	1129.2	1208.7	1271.5	1291.4	1302.0	1323.4	1320.5
17.5°	951.9	950.5	965.7	995.8	1058.2	1159.8	1264.2	1297.6	1320.1	1347.0	1344.4
20°	942.8	939.9	947.9	962.8	1007.1	1106.1	1245.4	1297.6	1334.7	1369.4	1368.0
22.5°	975.8	971.1	967.8	966.1	985.6	1061.8	1224.0	1293.2	1356.0	1401.7	1399.2
25°	1042.2	1034.9	1018.2	1001.9	996.2	1041.8	1205.1	1292.1	1388.0	1445.2	1435.8
27.5°	1149.6	1140.5	1106.8	1067.6	1032.4	1052.1	1196.8	1298.7	1423.1	1491.3	1472.4
30°	1282.7	1272.9	1230.5	1170.2	1107.2	1089.8	1207.2	1317.9	1468.1	1552.7	1515.7
32.5°	1402.1	1391.2	1354.9	1293.7	1208.4	1155.1	1240.7	1354.5	1538.8	1637.8	1580.6
35°	1508.0	1495.3	1462.7	1406.1	1332.4	1246.8	1300.8	1419.5	1639.3	1776.4	1668.7
37.5°	1611.7	1596.8	1561.4	1501.5	1450.0	1369.1	1384.0	1503.0	1772.8	1944.7	1785.6
40°	1727.8	1706.4	1663.3	1604.1	1554.1	1512.4	1493.1	1605.3	1908.5	2132.7	1931.3
42.5°	1840.3	1820.0	1768.4	1718.0	1655.3	1643.3	1619.7	1725.0	2056.9	2339.0	2079.3
45°	1961.4	1937.1	1874.7	1810.9	1771.4	1730.4	1742.4	1844.7	2202.3	2549.5	2234.6
47.5°	2075.0	2047.8	1974.2	1903.0	1881.3	1803.7	1854.8	1976.3	2353.6	2762.8	2388.5
50°	2136.3	2109.4	2048.2	1984.0	1966.9	1894.0	1976.7	2121.0	2512.2	2975.4	2536.1
52.5°	2187.5	2158.4	2078.3	2042.7	2037.6	1992.3	2126.9	2286.5	2670.6	3163.3	2678.6
55°	2241.9	2209.6	2107.3	2075.4	2098.6	2102.6	2305.0	2474.0	2838.2	3346.5	2813.2
57.5°	2304.6	2263.6	2135.2	2103.0	2158.0	2231.7	2509.6	2668.5	3002.9	3516.3	2932.9
60°	2363.8	2322.4	2188.9	2146.9	2222.3	2381.6	2744.3	2903.9	3189.4	3667.6	3046.1
62.5°	2375.3	2341.3	2231.7	2231.3	2309.3	2556.4	3022.2	3141.5	3352.3	3817.0	3147.7
65°	2174.4	2153.0	2088.0	2228.1	2434.2	2808.2	3331.7	3445.5	3559.4	3947.6	3237.0
67.5°	1655.0	1657.8	1653.1	1923.4	2333.3	3169.8	3779.6	3771.0	3815.2	4094.2	3339.6
70°	756.8	773.8	884.8	1327.7	1869.3	3211.5	4520.4	4407.6	4136.2	4283.9	3428.5
72.5°	408.9	421.9	467.2	643.2	1123.8	2855.3	5074.0	5154.1	4563.2	4411.6	3330.9
75°	300.0	307.3	338.9	408.9	471.9	2122.2	4875.5	5287.0	4616.5	4113.7	2876.4
77.5°	224.6	227.9	253.6	323.9	241.6	1118.8	3895.7	4378.6	3952.0	3379.8	2124.7
80°	162.9	166.5	185.7	243.0	169.4	409.2	2675.0	3073.4	2706.6	2154.4	1058.9
82.5°	112.4	113.9	122.3	165.4	118.3	158.9	1517.8	1802.3	1511.0	756.0	285.9
85°	67.9	69.7	73.3	96.5	67.1	75.4	655.2	677.6	451.6	180.7	88.9
87.5°	28.0	29.7	32.7	40.6	26.4	21.0	108.1	135.7	84.6	53.0	27.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1239.5	1237.1	1230.1	1220.7	1212.0	1201.1	1196.4	1192.4	1188.8	1181.9	1178.6
5°	1247.2	1240.2	1221.8	1197.8	1170.7	1140.9	1111.9	1091.9	1074.9	1062.2	1051.6
7.5°	1258.8	1245.7	1212.0	1163.1	1100.6	1036.8	979.1	938.1	907.2	896.1	876.5
10°	1270.8	1255.1	1196.4	1110.1	1002.3	904.0	827.5	785.4	760.8	752.8	740.4
12.5°	1284.9	1262.1	1172.1	1036.4	892.4	784.6	717.9	693.2	680.5	676.2	677.3
15°	1305.5	1267.8	1135.5	944.2	787.6	697.6	654.5	637.3	630.9	630.5	631.9
17.5°	1321.2	1268.9	1078.5	845.6	707.0	645.0	609.5	602.9	607.3	613.8	616.3
20°	1338.5	1259.1	1003.8	755.6	650.5	598.9	584.0	588.5	598.9	608.3	611.6
22.5°	1350.9	1241.4	913.5	685.6	601.5	572.5	571.7	580.8	586.6	591.3	593.9
25°	1361.8	1211.2	817.6	626.9	561.2	556.5	564.5	561.6	557.6	561.6	564.1
27.5°	1369.8	1163.8	732.1	575.3	532.9	545.6	540.9	534.3	534.0	536.2	539.8
30°	1367.2	1100.2	661.6	526.3	512.9	525.3	514.0	512.9	511.9	512.9	516.9
32.5°	1367.2	1028.1	607.6	492.6	500.2	495.5	494.5	491.9	487.6	487.2	491.9
35°	1374.8	955.9	561.2	474.5	489.7	478.5	479.2	473.0	464.0	459.6	464.0
37.5°	1390.5	897.8	515.2	465.8	471.2	470.9	468.0	457.5	441.5	427.7	432.4
40°	1428.2	880.8	483.6	461.8	462.5	466.9	459.3	438.9	402.6	380.2	383.0
42.5°	1487.4	909.5	476.6	452.0	456.7	461.0	446.2	399.0	373.3	359.9	359.9
45°	1562.4	959.5	491.6	437.9	442.9	450.6	406.3	383.8	372.2	372.6	374.3
47.5°	1657.4	1012.1	519.2	425.5	423.0	427.3	379.8	366.0	350.0	354.0	364.2
50°	1767.4	1065.5	545.2	408.9	400.9	386.7	362.7	349.7	329.4	320.0	322.5
52.5°	1886.4	1116.9	555.8	388.5	376.9	360.6	351.2	335.2	310.6	294.9	294.6
55°	1999.2	1163.8	544.2	364.2	353.0	340.3	338.9	329.0	302.6	280.7	280.7
57.5°	2105.9	1202.9	515.2	339.6	328.6	321.0	330.9	326.2	292.7	264.9	263.3
60°	2196.2	1229.8	473.0	314.5	306.9	302.9	317.8	316.3	279.0	247.7	246.7
62.5°	2268.0	1240.2	426.6	290.6	288.7	281.5	299.6	299.6	261.6	231.0	230.0
65°	2324.2	1230.1	379.5	267.0	270.6	259.7	277.5	275.3	243.0	216.2	214.7
67.5°	2373.9	1196.8	327.2	243.7	252.2	238.3	254.3	249.2	222.7	201.3	199.9
70°	2396.0	1119.1	267.7	220.6	230.7	217.3	231.0	221.6	199.9	185.4	182.4
72.5°	2218.3	930.1	210.7	196.3	205.0	194.0	206.0	195.2	175.2	168.7	163.3
75°	1835.3	697.9	162.2	169.7	176.3	168.0	175.9	168.0	149.9	154.6	141.1
77.5°	1332.8	471.2	124.0	141.9	144.7	140.4	147.3	138.2	121.9	120.8	115.3
80°	662.8	276.0	97.2	112.1	111.0	108.1	116.1	111.7	98.0	103.7	102.7
82.5°	191.9	118.3	70.7	78.7	76.6	77.3	83.0	85.3	127.7	126.6	129.5
85°	60.3	46.4	42.4	43.9	41.7	42.8	49.0	97.2	90.0	52.6	57.0
87.5°	15.6	16.0	10.6	11.3	11.6	13.7	15.6	59.1	28.3	18.4	19.6
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)