

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: P969994

Luminaire Tested: **NAV-SB6A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25518.4 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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



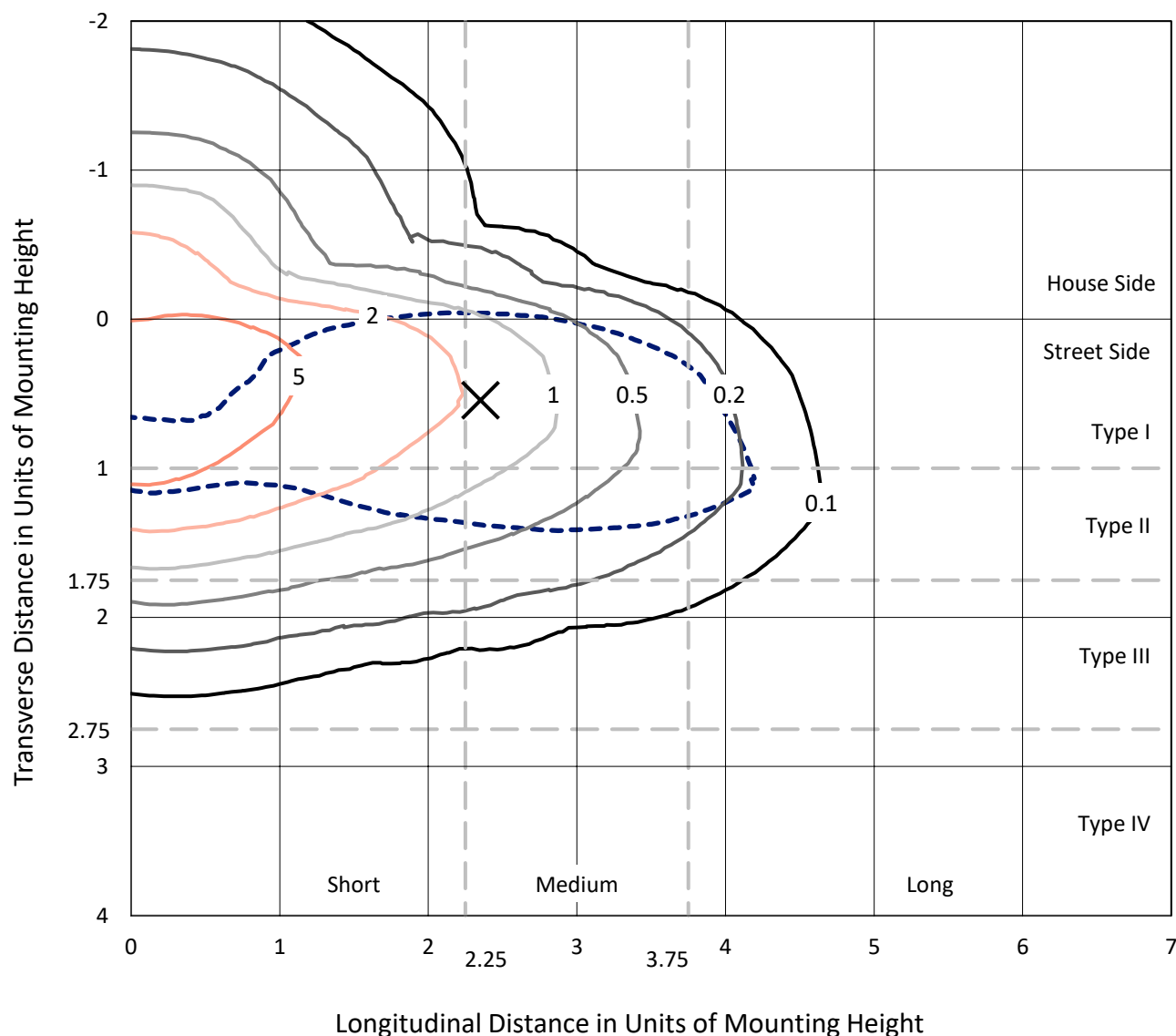
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

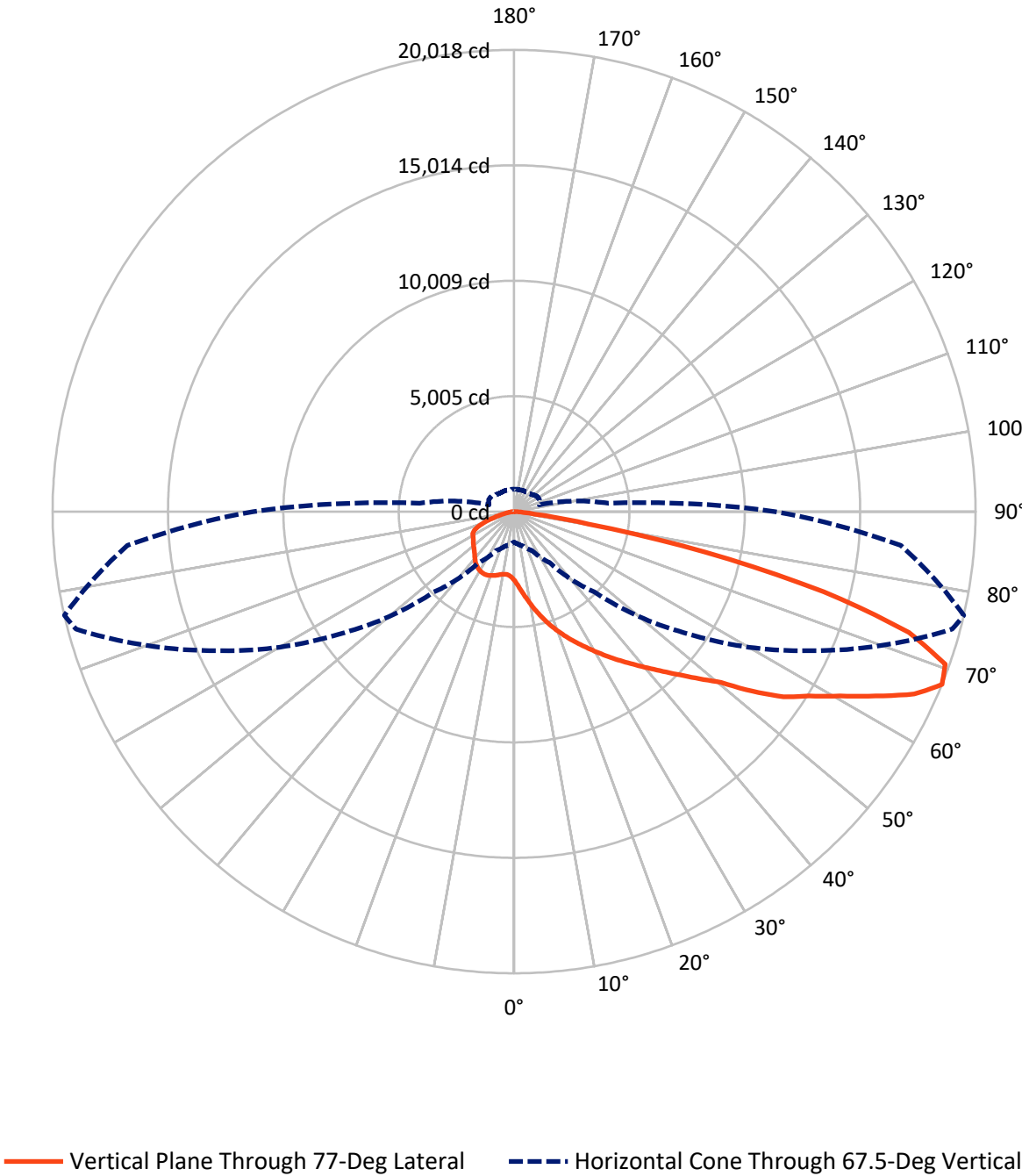
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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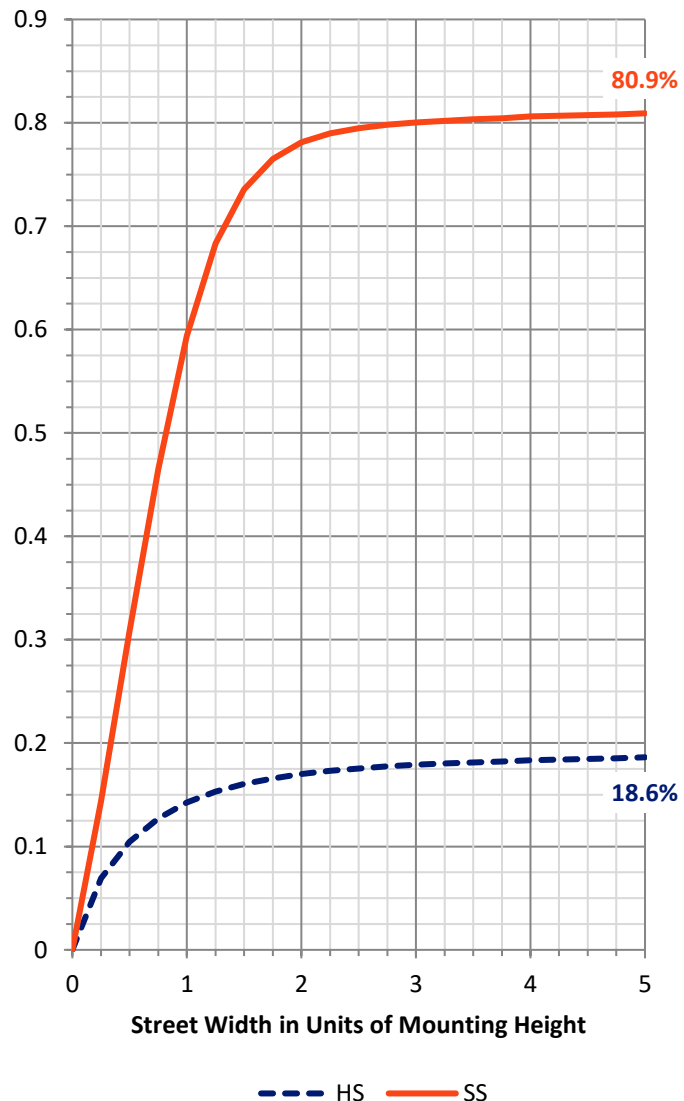
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4827.1	0.0	4827.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20691.3	0.0	20691.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	25518.4	0.0	25518.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.9	1.3
10°-20°	1153.0	4.5
20°-30°	2176.9	8.5
30°-40°	3507.0	13.7
40°-50°	4796.9	18.8
50°-60°	5410.9	21.2
60°-70°	5050.4	19.8
70°-80°	2768.5	10.8
80°-90°	333.9	1.3
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°	25518.4	100.0
0°-180°	25518.4	100.0

Coefficient of Utilization



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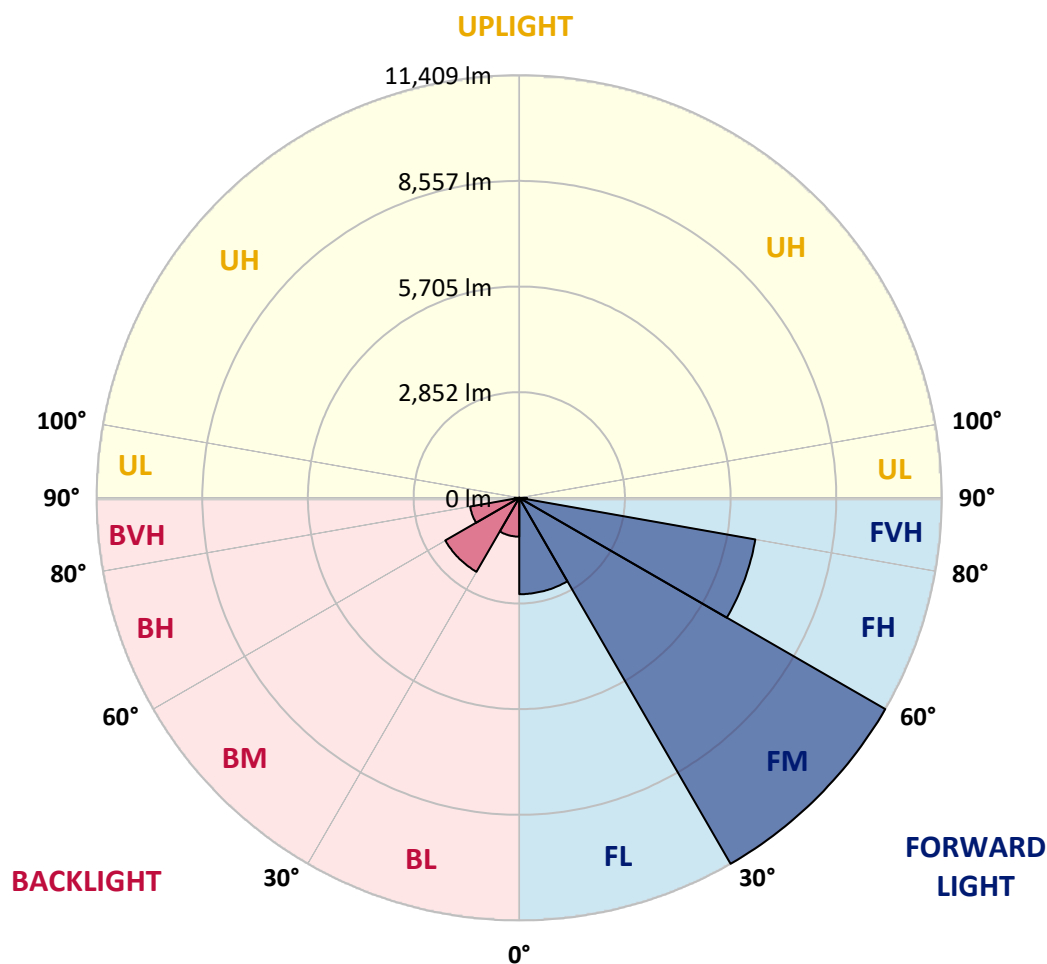
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2601.3	10.2			
FM	(30°-60°)	11409.0	44.7			
FH	(60°-80°)	6472.2	25.4			G3/7500
FVH	(80°-90°)	208.8	0.8			G2/225
BL	(0°-30°)	1049.5	4.1	B3/2500		
BM	(30°-60°)	2305.8	9.0	B2/2500		
BH	(60°-80°)	1346.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	125.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1
2.5°	3748.8	3775.2	3742.3	3742.3	3631.7	3573.7	3463.1	3378.7	3227.2	3200.9	3100.8
5°	4431.2	4464.2	4418.1	4398.3	4267.9	4148.0	3962.2	3779.2	3509.2	3481.5	3245.7
7.5°	4959.5	5001.6	4960.8	4939.7	4823.8	4689.4	4472.1	4216.5	3835.9	3781.8	3440.6
10°	5390.2	5396.7	5383.6	5391.5	5300.6	5190.0	4967.4	4669.6	4194.1	4120.4	3676.5
12.5°	5633.9	5664.2	5690.5	5738.0	5722.2	5653.6	5453.4	5097.7	4573.4	4478.6	3933.3
15°	5748.5	5801.2	5860.4	5969.8	6058.1	6075.2	5922.3	5557.4	4959.5	4844.9	4192.8
17.5°	5789.3	5839.3	5932.9	6091.0	6280.6	6408.4	6339.9	6004.0	5341.5	5209.7	4465.5
20°	5996.1	6010.6	6067.3	6217.4	6422.9	6634.9	6686.4	6433.4	5719.5	5570.7	4747.4
22.5°	6438.7	6409.7	6425.5	6494.0	6641.6	6847.0	6964.3	6812.8	6108.1	5936.8	5031.9
25°	7169.8	7085.5	7001.2	6922.1	6997.2	7113.1	7246.1	7192.1	6515.1	6297.8	5319.0
27.5°	8093.2	7990.4	7804.7	7545.2	7454.3	7495.1	7554.5	7543.9	6891.8	6671.8	5615.5
30°	9002.1	8882.2	8660.9	8285.5	8045.7	7937.7	7892.9	7862.7	7301.5	7067.1	5914.5
32.5°	9727.9	9633.1	9415.6	8995.5	8647.7	8463.3	8314.5	8206.5	7729.6	7495.1	6230.6
35°	10362.8	10274.5	10025.5	9567.1	9189.1	8992.8	8797.9	8567.4	8174.8	7937.7	6570.5
37.5°	10942.4	10854.1	10512.9	10036.1	9655.4	9519.8	9345.8	8954.6	8621.4	8397.4	6930.0
40°	11308.5	11288.8	10970.1	10430.0	10034.8	9967.6	9909.6	9403.9	9116.7	8908.6	7325.2
42.5°	11402.1	11445.6	11192.7	10748.8	10372.0	10318.0	10453.7	9912.3	9672.5	9473.7	7773.1
45°	11176.8	11302.0	11136.0	10834.4	10611.7	10582.7	10935.8	10468.1	10287.7	10105.9	8313.2
47.5°	10606.5	10818.6	10750.1	10707.9	10676.3	10801.4	11360.0	11058.3	10984.5	10826.5	8929.6
50°	9455.2	9856.9	9976.8	10242.9	10548.5	10971.4	11745.9	11702.4	11798.6	11639.2	9680.4
52.5°	7464.9	8018.1	8713.6	9380.1	10156.0	10914.7	12170.0	12627.1	13032.9	12945.9	10873.9
55°	6162.1	6411.1	6945.8	8168.2	9394.6	10676.3	12361.1	13374.0	14257.9	14180.2	11778.8
57.5°	5161.0	5383.6	5712.9	6733.7	8243.4	10134.9	12479.6	13829.8	15096.9	15089.0	12671.9
60°	4087.4	4323.2	4660.4	5383.6	6898.5	9199.7	12453.2	14348.8	16167.8	16233.7	13761.2
62.5°	2875.5	3135.1	3509.2	4183.5	5524.5	7987.8	11915.8	14724.2	17428.5	17607.7	15071.9
65°	1890.2	2061.5	2343.4	2925.6	4116.4	6429.5	10889.7	14772.9	18777.4	19080.3	16302.2
67.5°	1325.1	1391.0	1557.0	1873.1	2713.5	4930.5	9254.9	14268.4	19677.0	20018.1	16835.7
70°	1034.0	1066.9	1151.3	1277.8	1704.5	3315.5	7092.1	12956.4	19484.7	19840.4	16278.5
72.5°	893.1	924.8	956.3	972.1	1143.4	2047.0	4804.0	10833.0	17673.5	17914.5	14153.8
75°	810.1	818.1	844.4	839.1	872.0	1327.8	2772.8	7892.9	13944.4	13861.4	10448.4
77.5°	681.0	691.6	735.0	728.5	774.5	907.5	1439.7	5093.8	9040.3	8476.4	5815.6
80°	577.0	582.2	629.7	621.8	673.1	657.3	735.0	2596.3	3834.5	3248.3	1676.9
82.5°	200.2	247.6	480.8	495.3	513.7	397.8	424.1	1059.0	1171.1	897.1	351.7
85°	97.5	104.0	245.0	347.8	346.4	200.2	206.8	378.0	368.8	289.8	117.3
87.5°	15.8	19.8	29.0	135.7	108.0	52.7	71.1	73.8	76.4	65.9	26.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1
2.5°	3027.0	2961.1	2822.8	2695.1	2595.0	2498.8	2444.8	2398.7	2372.4	2367.1	2367.1
5°	3108.7	2973.0	2721.5	2509.4	2371.0	2268.3	2214.3	2180.1	2163.0	2152.4	2151.1
7.5°	3226.0	3027.0	2668.7	2427.7	2282.8	2209.0	2181.4	2176.1	2174.7	2176.1	2180.1
10°	3387.9	3115.3	2663.5	2407.9	2286.8	2245.9	2244.5	2245.9	2251.2	2252.5	2253.8
12.5°	3563.1	3206.2	2684.6	2425.0	2336.8	2314.4	2310.5	2309.1	2313.1	2315.7	2317.0
15°	3754.2	3326.0	2720.1	2461.9	2392.1	2368.4	2364.5	2356.6	2355.2	2353.9	2352.6
17.5°	3950.5	3444.6	2759.6	2501.4	2427.7	2394.7	2380.3	2361.8	2347.4	2343.4	2347.4
20°	4149.3	3561.9	2787.3	2521.2	2430.3	2384.3	2355.2	2323.6	2298.6	2284.1	2289.3
22.5°	4361.4	3684.4	2804.4	2516.0	2406.6	2343.4	2290.7	2253.8	2215.6	2190.6	2191.9
25°	4568.2	3791.1	2803.1	2488.3	2360.5	2280.1	2213.0	2165.5	2112.8	2086.5	2086.5
27.5°	4767.1	3887.2	2770.2	2439.5	2294.7	2205.1	2124.7	2068.0	2016.7	1991.7	1990.3
30°	4972.6	3967.6	2718.8	2368.4	2217.0	2118.2	2029.9	1981.1	1935.0	1911.3	1910.0
32.5°	5176.8	4041.3	2646.3	2280.1	2127.4	2032.5	1945.6	1900.8	1873.1	1873.1	1874.4
35°	5392.8	4092.7	2550.2	2177.4	2032.5	1941.7	1873.1	1846.7	1844.2	1828.3	1824.4
37.5°	5620.7	4125.6	2432.9	2072.0	1939.0	1853.4	1832.3	1800.7	1774.4	1740.0	1734.8
40°	5860.4	4158.5	2292.0	1962.7	1840.2	1792.7	1783.6	1741.4	1666.3	1582.0	1570.2
42.5°	6151.5	4181.0	2145.8	1853.4	1736.1	1720.4	1733.5	1661.0	1541.2	1477.9	1479.3
45°	6488.8	4217.8	2011.5	1745.4	1629.4	1629.4	1684.8	1589.9	1491.2	1451.6	1458.2
47.5°	6926.1	4303.5	1886.3	1626.8	1530.6	1557.0	1576.8	1504.3	1448.9	1400.3	1398.9
50°	7558.4	4509.0	1757.2	1507.0	1455.6	1508.3	1480.6	1438.4	1373.9	1334.3	1330.4
52.5°	8343.4	4630.1	1642.6	1398.9	1391.0	1443.7	1404.1	1364.7	1315.9	1263.2	1252.7
55°	8878.2	4652.5	1546.4	1319.9	1347.6	1342.2	1327.8	1292.2	1265.9	1196.1	1197.4
57.5°	9476.2	4697.3	1467.4	1272.4	1319.9	1261.9	1256.6	1226.3	1192.1	1144.7	1128.8
60°	10191.6	4767.1	1398.9	1254.0	1296.2	1209.2	1182.8	1171.1	1136.8	1113.0	1119.7
62.5°	10971.4	4830.3	1329.1	1256.6	1268.5	1157.8	1118.4	1114.4	1093.3	1085.4	1085.4
65°	11503.5	4657.8	1242.2	1254.0	1225.1	1105.2	1055.1	1053.8	1036.7	1034.0	1032.7
67.5°	11317.7	4111.2	1124.9	1217.1	1180.3	1052.5	997.1	991.9	969.4	970.8	970.8
70°	10387.8	3331.4	962.9	1126.3	1124.9	1005.0	936.5	919.4	889.2	894.4	899.6
72.5°	8643.7	2468.5	745.6	974.8	1036.7	961.6	866.7	839.1	800.9	806.2	804.8
75°	6242.5	1678.1	542.7	741.6	902.3	910.2	798.3	750.8	704.7	712.6	715.2
77.5°	3194.3	951.1	399.1	511.1	708.7	827.3	736.4	673.1	662.6	736.4	725.8
80°	1041.9	476.8	276.6	358.3	464.9	677.1	645.4	573.0	570.4	587.5	504.5
82.5°	310.9	201.5	177.8	235.7	256.9	519.0	557.2	433.4	372.8	392.6	405.7
85°	106.7	97.5	101.5	117.3	122.5	304.3	389.9	287.2	271.3	299.0	295.1
87.5°	25.0	34.2	29.0	26.3	26.3	73.8	151.5	119.8	165.9	110.6	106.7
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)