

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: P962498

Luminaire Tested: **NAV-SB2C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16673.7 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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

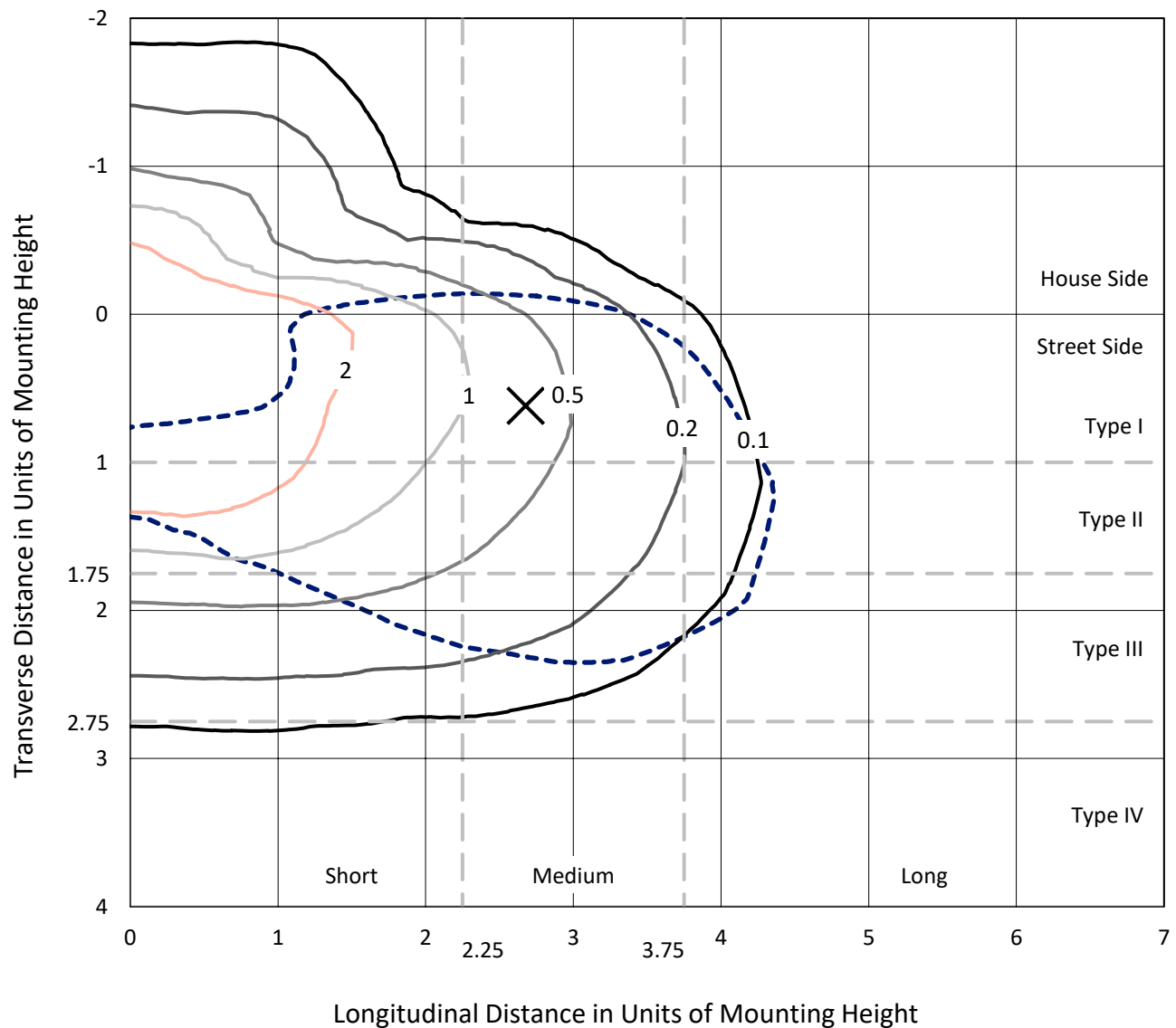


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Iso-Footcandle Lines of Horizontal Illumination

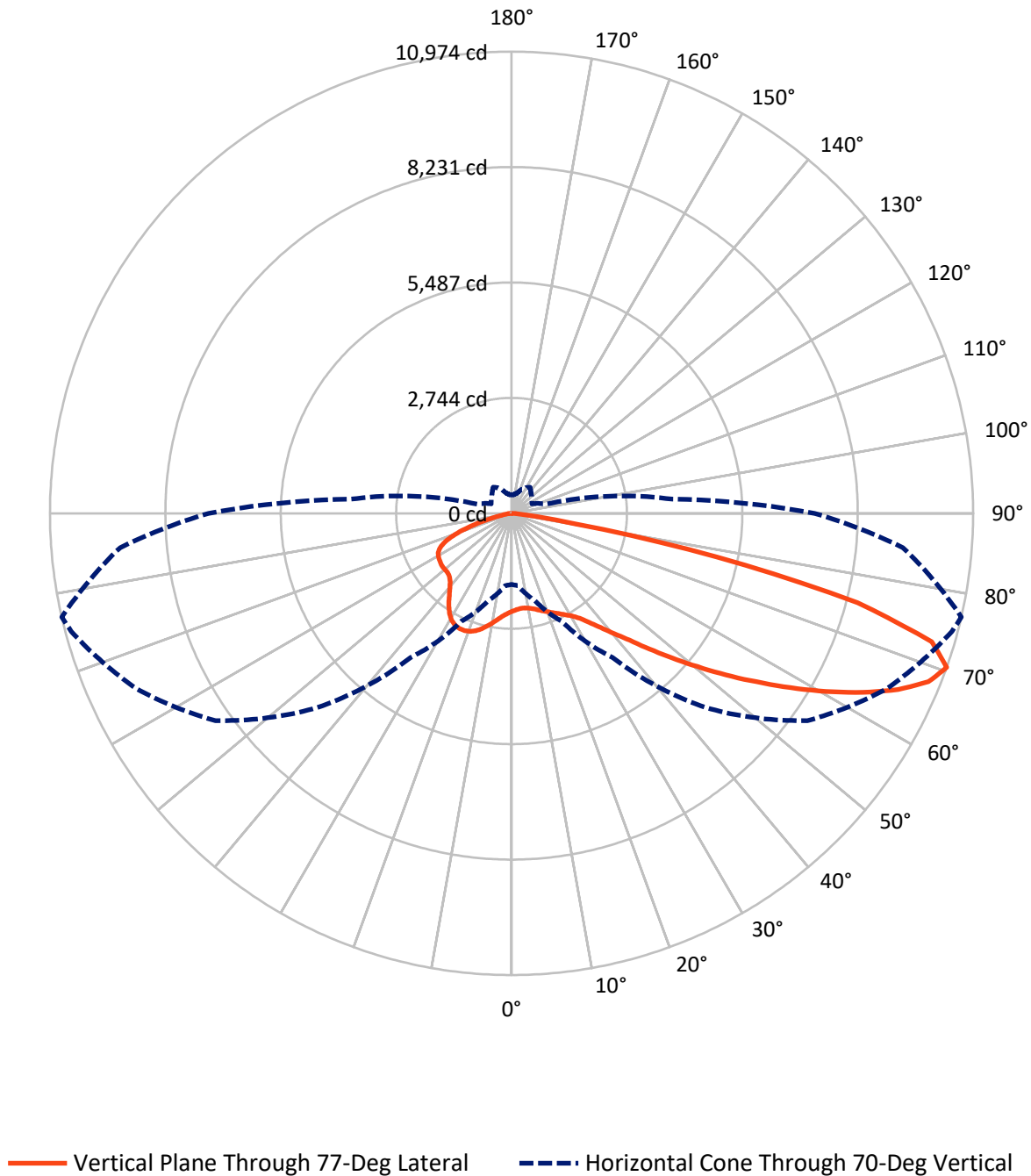
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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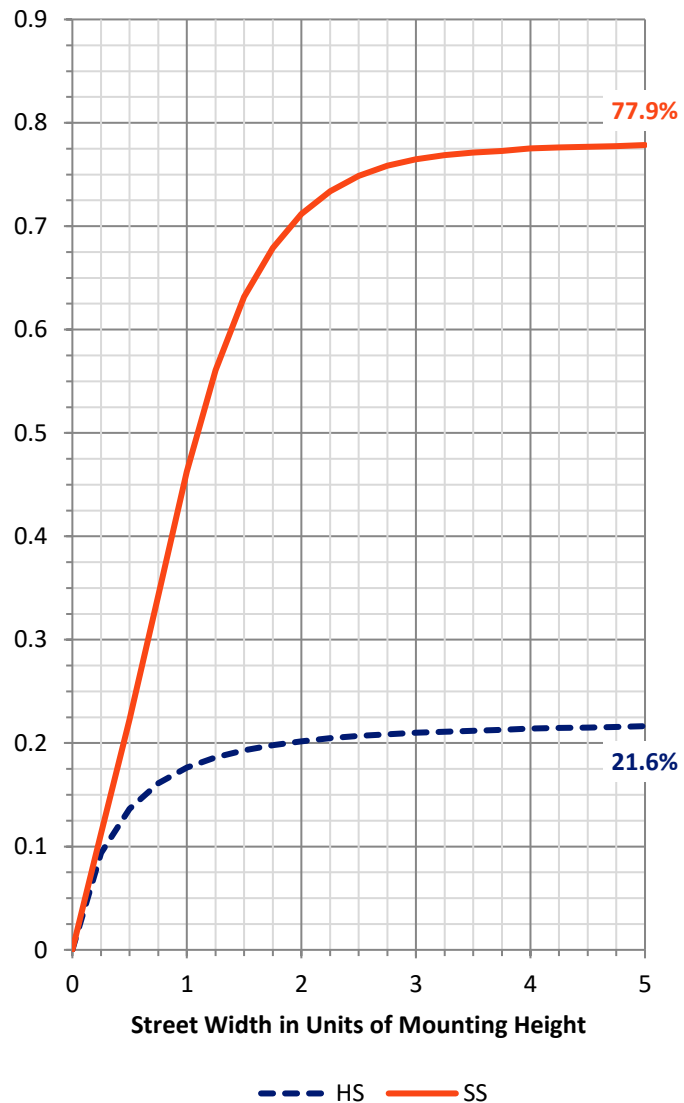
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3651.3	0.0	3651.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13022.4	0.0	13022.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	16673.7	0.0	16673.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.3
10°-20°	640.3	3.8
20°-30°	1095.0	6.6
30°-40°	1760.8	10.6
40°-50°	2749.1	16.5
50°-60°	3672.2	22.0
60°-70°	3913.9	23.5
70°-80°	2409.4	14.5
80°-90°	211.1	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°	16673.7	100.0
0°-180°	16673.7	100.0

Coefficient of Utilization



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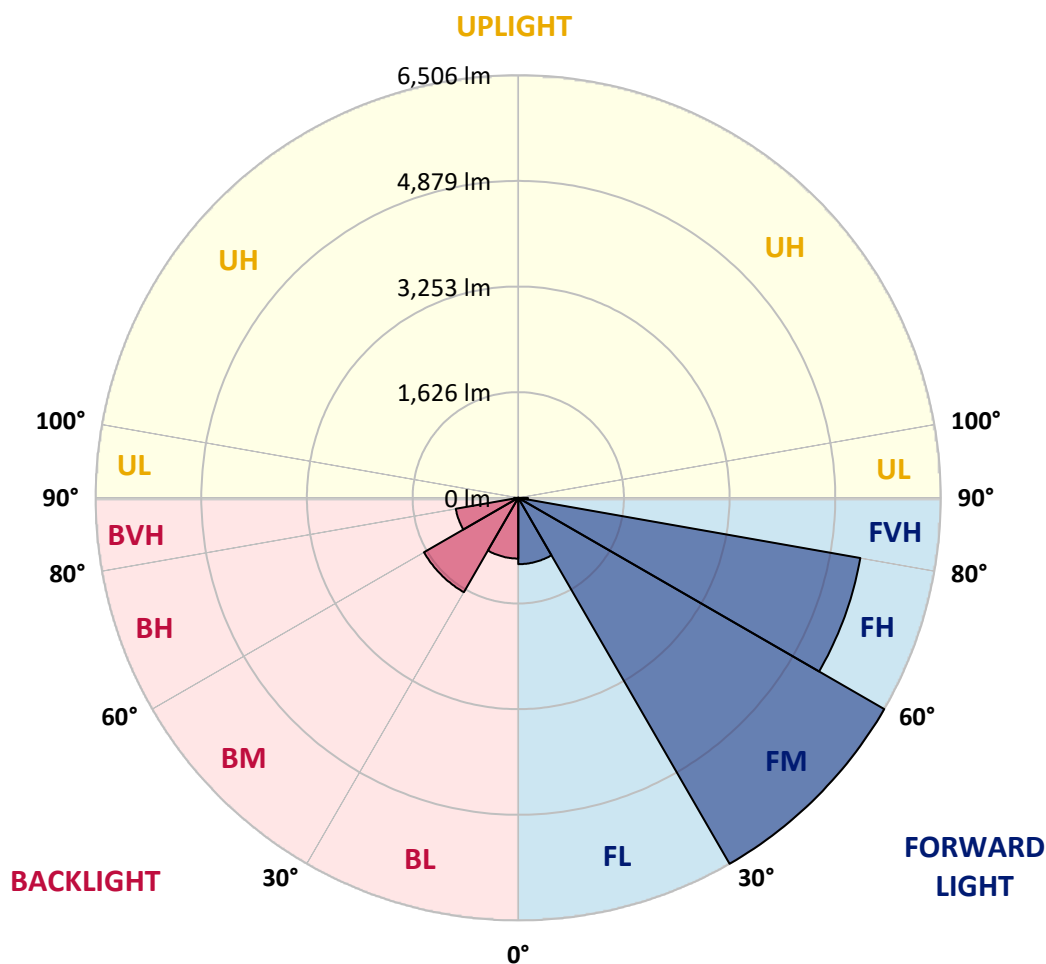
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1021.5	6.1			
FM	(30°-60°)	6505.7	39.0			
FH	(60°-80°)	5347.5	32.1			G3/7500
FVH	(80°-90°)	147.6	0.9			G2/225
BL	(0°-30°)	935.6	5.6	B2/1000		
BM	(30°-60°)	1676.4	10.1	B2/2500		
BH	(60°-80°)	975.8	5.9	B2/1000		G2/1000
BVH	(80°-90°)	63.5	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1
2.5°	2144.2	2143.4	2154.4	2157.9	2178.4	2192.9	2220.3	2249.3	2286.9	2291.1	2314.1
5°	2020.4	2020.4	2033.2	2046.9	2073.4	2102.4	2144.2	2194.6	2259.5	2269.8	2327.0
7.5°	1915.4	1922.2	1933.4	1959.8	1990.5	2032.4	2096.4	2168.2	2253.6	2269.8	2362.0
10°	1830.9	1838.5	1852.2	1873.5	1919.6	1977.7	2061.4	2153.6	2268.0	2293.6	2413.3
12.5°	1804.4	1812.1	1819.8	1836.0	1878.6	1947.0	2046.9	2160.5	2303.1	2328.7	2483.3
15°	1865.8	1875.2	1869.3	1865.0	1887.2	1949.5	2053.7	2185.2	2346.6	2383.3	2569.5
17.5°	2007.6	2011.0	1997.3	1957.2	1953.9	1987.1	2086.2	2219.4	2401.3	2441.4	2656.6
20°	2236.4	2230.5	2202.3	2122.9	2077.7	2070.8	2141.6	2270.6	2457.6	2500.3	2750.6
22.5°	2547.3	2540.5	2484.1	2358.6	2257.8	2191.2	2222.0	2337.2	2520.8	2568.6	2841.9
25°	2935.0	2925.6	2842.7	2672.0	2515.7	2350.9	2331.3	2425.1	2598.6	2643.0	2937.5
27.5°	3387.6	3379.9	3290.2	3064.7	2839.4	2569.5	2467.1	2528.5	2679.7	2730.1	3045.2
30°	3874.3	3896.5	3737.7	3495.1	3210.0	2854.7	2649.7	2655.8	2784.7	2829.9	3175.8
32.5°	4446.4	4484.9	4293.6	3986.2	3596.8	3164.7	2880.4	2833.4	2937.5	2975.2	3340.6
35°	5013.5	5057.0	4898.2	4558.3	4110.0	3530.2	3121.1	3037.5	3140.8	3181.8	3559.2
37.5°	5503.6	5561.8	5479.8	5184.2	4659.1	3970.8	3435.4	3277.4	3391.0	3442.3	3853.0
40°	5890.5	5979.2	5973.3	5788.9	5306.4	4505.4	3834.2	3573.8	3701.8	3757.3	4209.1
42.5°	6204.7	6281.6	6348.1	6338.8	5981.8	5112.5	4303.0	3958.9	4056.2	4120.3	4609.5
45°	6421.6	6503.6	6647.0	6801.6	6631.6	5762.3	4840.2	4415.7	4504.6	4601.0	5086.9
47.5°	6615.5	6708.5	6894.7	7139.7	7183.3	6414.8	5428.5	4947.7	5028.9	5128.8	5566.0
50°	6632.6	6712.8	7001.5	7349.0	7575.3	7041.5	6060.4	5544.6	5620.6	5727.4	6079.2
52.5°	6220.1	6346.5	6850.3	7343.0	7755.5	7565.9	6688.0	6165.5	6250.9	6378.9	6610.3
55°	4828.2	5013.5	6407.1	7114.1	7691.4	7904.9	7285.0	6825.6	6934.8	7068.9	7144.9
57.5°	4158.7	4239.8	5086.0	6697.5	7399.4	7992.8	7788.8	7492.4	7668.3	7815.2	7710.3
60°	3737.7	3805.1	4305.5	6049.3	7015.1	7853.7	8178.2	8114.1	8418.1	8593.2	8288.4
62.5°	3286.8	3350.8	3806.0	5051.1	6523.2	7622.3	8424.1	8688.0	9186.7	9377.9	8833.1
65°	2839.4	2894.0	3330.3	4244.1	5898.2	7390.9	8551.4	9184.1	9898.0	10096.1	9285.8
67.5°	2340.7	2385.9	2798.4	3580.5	5138.1	7074.0	8614.5	9574.3	10517.1	10687.1	9509.4
70°	1689.1	1724.2	2150.2	2831.7	4184.3	6529.2	8588.9	9851.1	10838.1	10974.0	9340.4
72.5°	798.5	830.0	1330.4	1838.5	2955.5	5468.6	8070.5	9631.6	10512.0	10444.5	8305.4
75°	426.1	453.5	764.2	1008.5	1561.0	3748.8	6604.4	8296.9	8827.2	8499.3	6138.1
77.5°	288.6	310.0	473.0	605.5	713.0	1779.6	4244.9	5744.4	5526.7	4985.3	3074.2
80°	228.9	251.0	387.7	409.9	345.0	643.0	1754.0	2659.2	1910.3	1527.7	874.4
82.5°	175.9	200.7	326.2	297.1	187.9	263.8	510.7	841.1	489.3	372.3	211.8
85°	107.6	134.1	256.1	189.6	105.9	120.4	173.3	234.0	149.4	124.6	76.0
87.5°	54.6	76.9	129.8	69.2	47.9	28.2	46.1	46.1	39.3	34.1	19.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1	2326.1
2.5°	2334.6	2351.8	2380.8	2408.1	2429.5	2450.0	2470.5	2481.5	2485.0	2498.6	2506.3
5°	2362.0	2393.6	2450.0	2502.8	2536.2	2556.7	2571.2	2579.7	2581.5	2585.8	2592.5
7.5°	2412.3	2462.8	2541.3	2594.3	2619.1	2617.3	2611.4	2590.0	2581.5	2573.8	2575.5
10°	2483.3	2549.9	2646.3	2683.0	2667.7	2626.8	2573.8	2511.5	2482.4	2454.3	2445.6
12.5°	2571.2	2655.8	2750.6	2748.8	2672.8	2567.8	2444.8	2349.2	2288.5	2245.0	2234.8
15°	2677.9	2775.3	2847.9	2789.8	2623.3	2434.6	2254.4	2129.7	2075.1	2027.2	2022.1
17.5°	2788.1	2892.2	2925.6	2777.0	2498.6	2237.4	2033.2	1935.0	1881.2	1855.7	1863.2
20°	2895.7	2999.0	2971.7	2703.5	2309.0	2013.6	1831.7	1777.9	1766.8	1772.7	1770.2
22.5°	3009.3	3101.5	2981.1	2561.8	2067.4	1784.7	1684.8	1686.5	1711.3	1729.3	1733.5
25°	3125.4	3187.7	2956.3	2356.9	1807.8	1616.5	1591.7	1619.1	1667.8	1702.7	1712.2
27.5°	3237.3	3264.6	2902.5	2103.3	1585.0	1496.1	1500.4	1556.8	1630.2	1678.8	1690.8
30°	3363.6	3332.9	2799.2	1818.0	1430.4	1392.8	1428.6	1494.3	1567.8	1611.4	1621.7
32.5°	3506.3	3391.8	2635.3	1554.2	1321.0	1309.9	1368.9	1411.5	1444.0	1456.8	1463.7
35°	3683.8	3474.6	2425.1	1368.9	1222.8	1249.3	1305.6	1284.3	1271.5	1264.6	1271.5
37.5°	3914.5	3586.6	2179.3	1248.4	1143.4	1205.8	1228.8	1162.2	1111.8	1087.1	1093.1
40°	4191.9	3750.5	1942.7	1155.4	1093.1	1168.2	1128.0	1047.8	983.7	948.7	951.3
42.5°	4500.3	3922.2	1743.7	1085.4	1064.9	1137.4	1053.8	958.2	854.7	843.7	854.7
45°	4823.9	4098.9	1607.9	1031.6	1051.2	1111.0	1011.1	856.5	783.1	828.3	852.2
47.5°	5147.5	4261.1	1526.0	991.4	1044.4	1081.1	973.4	800.1	748.0	813.8	844.5
50°	5507.9	4406.4	1489.2	962.4	1036.7	1069.2	917.2	785.7	711.3	754.9	787.3
52.5°	5865.7	4519.0	1462.0	933.4	1025.6	1059.7	889.8	768.5	667.0	669.5	687.5
55°	6222.7	4592.5	1432.0	894.9	1000.8	1039.2	887.2	749.8	633.7	621.7	630.2
57.5°	6603.5	4634.3	1395.3	852.2	958.2	987.2	884.7	735.2	623.4	603.7	606.3
60°	6991.2	4695.8	1347.5	800.1	900.9	924.9	878.7	730.1	617.4	584.0	586.6
62.5°	7338.8	4717.2	1290.3	750.6	827.5	863.4	865.9	725.8	601.2	544.0	544.0
65°	7566.8	4624.9	1190.4	694.2	748.0	800.1	841.1	711.3	572.2	515.0	515.0
67.5°	7557.3	4361.9	1034.1	621.7	671.2	730.1	805.2	686.5	537.1	479.1	481.6
70°	7205.5	3842.7	836.0	537.1	586.6	655.0	759.1	649.8	495.3	439.8	445.0
72.5°	6179.9	3007.6	607.1	438.1	488.4	577.3	699.4	605.5	452.5	404.8	402.2
75°	4414.9	1903.4	411.6	336.4	380.0	489.3	625.0	553.4	413.3	406.5	383.5
77.5°	2255.2	909.5	272.4	245.9	264.8	386.0	525.2	494.5	419.3	335.6	298.9
80°	733.5	335.6	171.7	167.4	175.9	257.1	406.5	405.6	317.6	228.0	201.5
82.5°	234.0	144.3	111.8	107.6	103.3	161.4	283.5	321.0	214.3	144.3	143.5
85°	93.1	86.2	65.7	60.7	43.6	76.0	148.6	213.5	159.7	104.1	106.7
87.5°	34.1	34.1	17.9	12.8	9.4	25.6	40.2	64.1	91.3	53.8	53.0
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)