

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: P962451

Luminaire Tested: **NAV-SB2C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962451
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-SB2C-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15002.9 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - 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



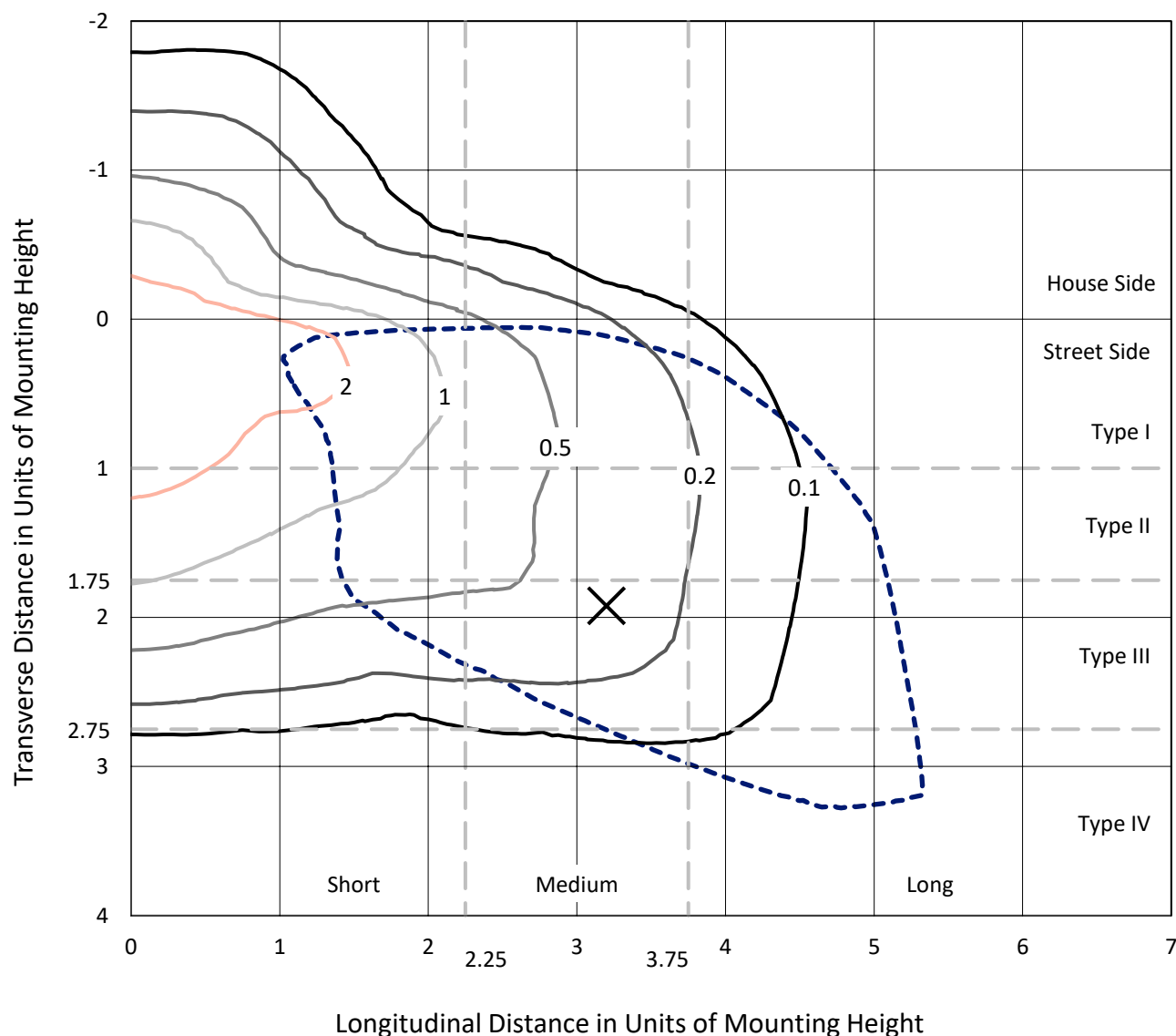
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

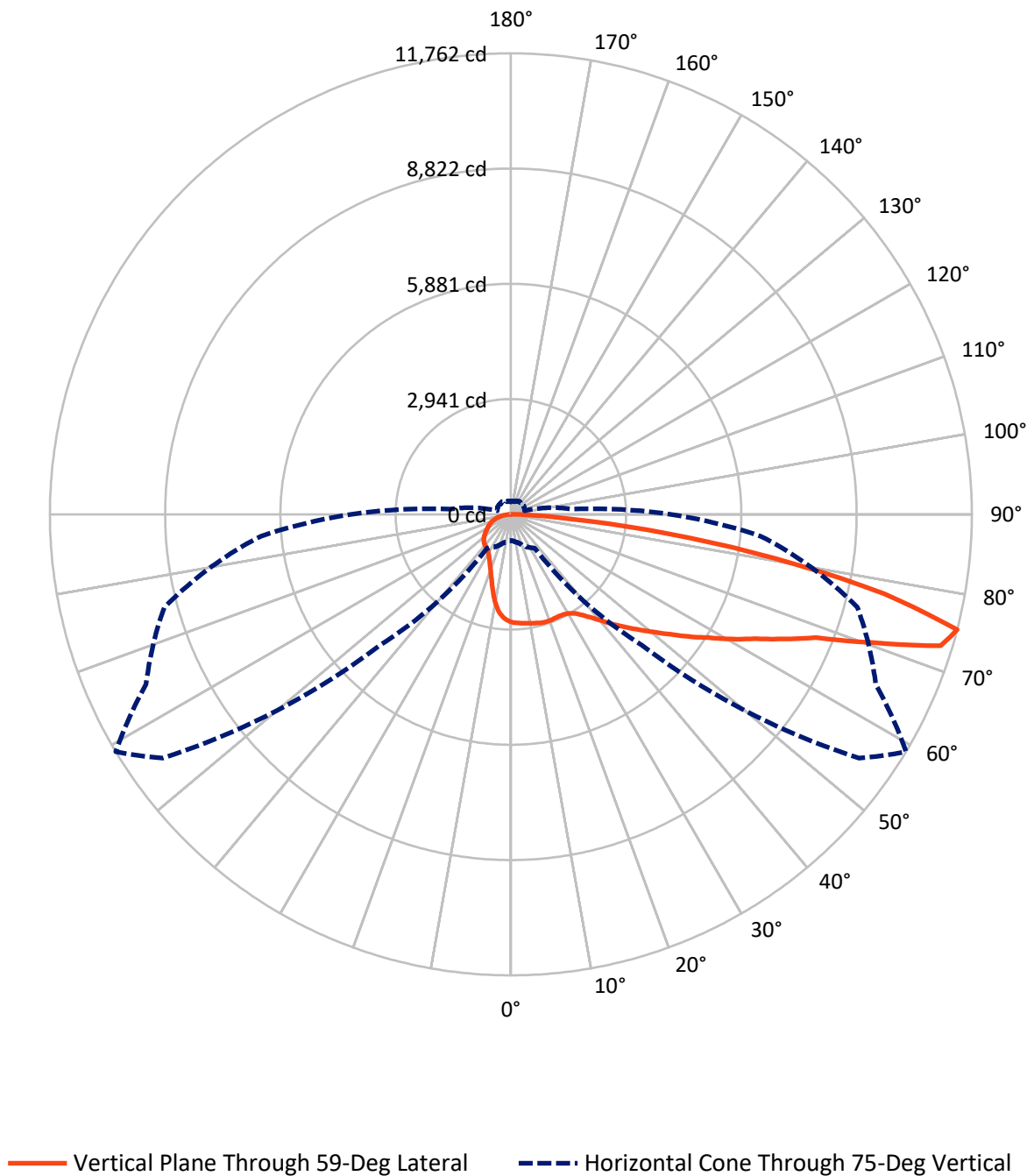
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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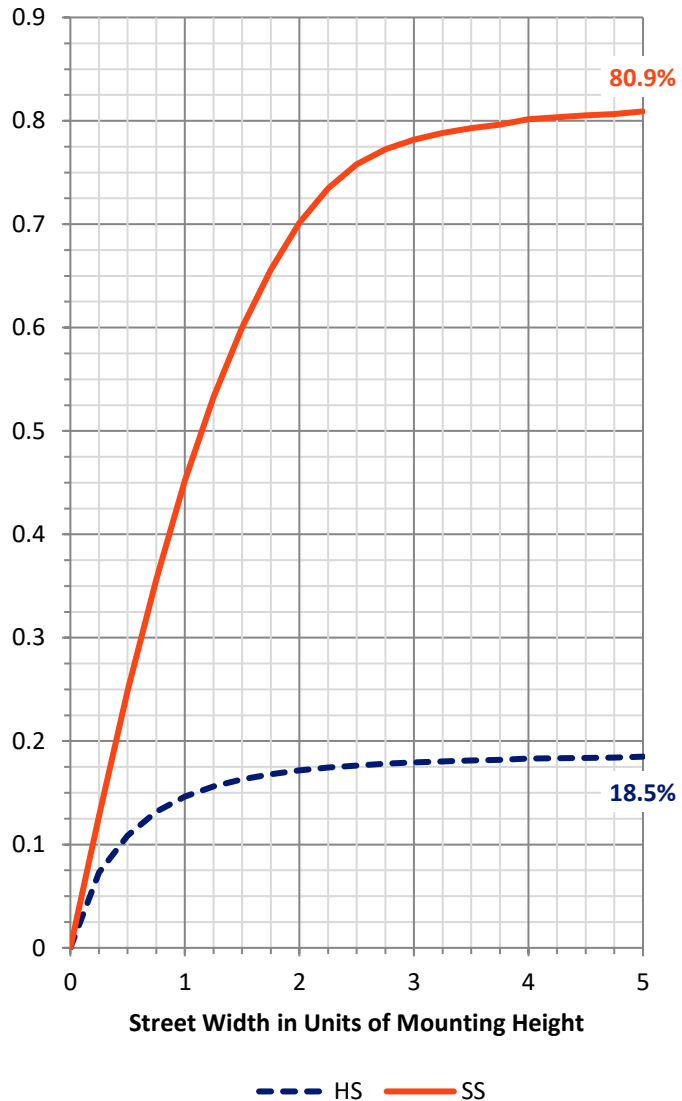
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.9	0.0	2813.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12189.0	0.0	12189.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	15002.9	0.0	15002.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	1.6
10°-20°	631.1	4.2
20°-30°	958.7	6.4
30°-40°	1425.0	9.5
40°-50°	2119.2	14.1
50°-60°	2876.6	19.2
60°-70°	3511.9	23.4
70°-80°	2756.1	18.4
80°-90°	477.4	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°	15002.9	100.0
0°-180°	15002.9	100.0

Coefficient of Utilization



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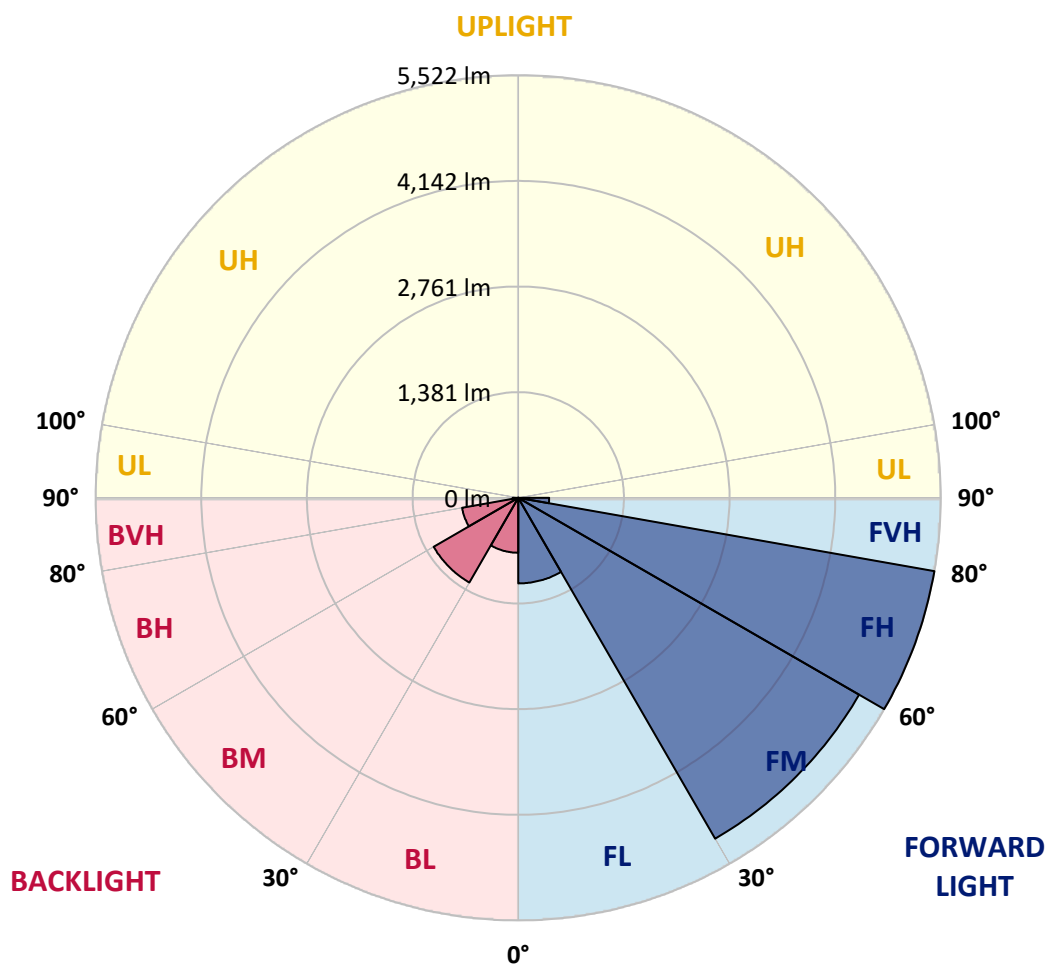
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.6	7.5			
FM	(30°-60°)	5143.6	34.3			
FH	(60°-80°)	5522.4	36.8			G3/7500
FVH	(80°-90°)	404.3	2.7			G3/500
BL	(0°-30°)	718.1	4.8	B2/1000		
BM	(30°-60°)	1277.2	8.5	B2/2500		
BH	(60°-80°)	745.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	73.1	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8
2.5°	2777.1	2767.5	2777.1	2773.1	2771.5	2768.3	2769.0	2774.8	2771.5	2775.5	2761.9
5°	2758.6	2752.9	2762.7	2760.2	2770.7	2772.3	2782.8	2789.2	2793.3	2794.1	2783.6
7.5°	2727.9	2722.3	2736.0	2747.3	2769.9	2776.3	2798.1	2808.6	2814.2	2824.0	2808.6
10°	2615.7	2613.3	2647.3	2690.0	2743.3	2776.3	2809.4	2827.2	2836.1	2861.9	2844.2
12.5°	2417.2	2420.4	2464.8	2547.1	2653.7	2760.2	2822.3	2848.2	2861.9	2894.2	2886.1
15°	2227.5	2226.7	2275.2	2363.1	2512.5	2689.2	2828.8	2873.2	2896.6	2944.2	2937.8
17.5°	2117.8	2114.6	2148.4	2215.4	2354.2	2580.2	2812.7	2886.9	2936.9	2996.7	2991.1
20°	2097.6	2091.1	2108.9	2141.9	2240.4	2460.8	2770.7	2886.9	2969.2	3046.7	3043.5
22.5°	2171.1	2160.6	2153.3	2149.2	2192.8	2362.3	2723.1	2877.3	3016.9	3118.6	3112.9
25°	2318.8	2302.6	2265.5	2229.2	2216.3	2317.9	2681.1	2874.8	3087.9	3215.4	3194.4
27.5°	2557.7	2537.5	2462.4	2375.2	2296.9	2340.5	2662.5	2889.4	3166.1	3317.9	3275.9
30°	2853.8	2832.1	2737.6	2603.6	2463.2	2424.4	2685.9	2932.1	3266.3	3454.2	3371.9
32.5°	3119.4	3095.2	3014.4	2878.0	2688.4	2569.8	2760.2	3013.6	3423.6	3644.0	3516.5
35°	3355.0	3326.7	3254.2	3128.2	2964.4	2774.0	2894.2	3158.1	3647.2	3952.3	3712.6
37.5°	3585.9	3552.8	3473.6	3340.5	3225.9	3045.9	3079.0	3343.8	3944.2	4326.7	3972.5
40°	3844.2	3796.5	3700.5	3568.9	3457.5	3364.7	3321.9	3571.3	4246.1	4744.8	4296.9
42.5°	4094.4	4049.2	3934.5	3822.3	3682.7	3656.1	3603.6	3837.7	4576.1	5204.0	4626.1
45°	4363.8	4309.8	4171.0	4029.0	3940.9	3849.8	3876.4	4104.0	4899.8	5672.1	4971.6
47.5°	4616.5	4555.9	4392.1	4234.0	4185.5	4012.8	4126.5	4396.9	5236.3	6146.7	5313.8
50°	4752.9	4693.2	4556.7	4414.0	4376.0	4213.8	4397.8	4719.0	5589.0	6619.7	5642.3
52.5°	4866.7	4802.1	4623.8	4544.6	4533.4	4432.5	4731.9	5087.0	5941.7	7037.8	5959.5
55°	4987.8	4915.9	4688.3	4617.3	4669.0	4677.8	5128.2	5504.2	6314.6	7445.3	6258.9
57.5°	5127.4	5036.1	4750.5	4678.6	4801.3	4965.1	5583.4	5936.9	6681.0	7823.0	6525.3
60°	5259.0	5166.9	4869.9	4776.3	4944.2	5298.4	6105.5	6460.7	7095.9	8159.6	6777.0
62.5°	5284.8	5208.8	4965.1	4964.4	5137.9	5687.5	6723.8	6989.3	7458.2	8492.1	7003.0
65°	4837.6	4790.0	4645.5	4957.1	5415.5	6247.6	7412.2	7665.7	7919.0	8782.6	7201.5
67.5°	3681.9	3688.4	3677.9	4279.2	5191.1	7052.2	8409.0	8389.6	8488.0	9108.7	7430.0
70°	1683.6	1721.5	1968.5	2953.9	4158.8	7145.1	10057.0	9806.0	9202.3	9530.8	7627.7
72.5°	909.6	938.6	1039.6	1430.9	2500.3	6352.5	11288.6	11467.0	10152.2	9814.9	7410.6
75°	667.5	683.6	753.8	909.6	1050.0	4721.5	10847.2	11762.4	10270.9	9152.2	6399.3
77.5°	499.6	506.9	564.2	720.7	537.5	2489.0	8667.2	9741.4	8792.3	7519.6	4727.1
80°	362.3	370.4	413.2	540.8	376.9	910.4	5951.4	6837.6	6021.6	4793.2	2355.9
82.5°	250.2	253.4	272.0	368.1	263.1	353.5	3376.9	4009.6	3361.5	1681.9	636.0
85°	150.9	155.0	163.1	214.6	149.3	167.9	1457.6	1507.7	1004.8	401.9	197.7
87.5°	62.1	66.2	72.7	90.4	58.9	46.8	240.5	301.9	188.1	117.9	61.3
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°	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8	2753.8
2.5°	2757.8	2752.1	2736.9	2715.8	2696.5	2672.3	2661.7	2652.9	2644.8	2629.4	2622.2
5°	2774.8	2759.4	2718.2	2665.0	2604.4	2538.3	2473.7	2429.4	2391.3	2363.1	2339.8
7.5°	2800.6	2771.5	2696.5	2587.5	2448.7	2306.7	2178.3	2087.1	2018.5	1993.5	1949.9
10°	2827.2	2792.5	2661.7	2469.6	2230.0	2011.3	1840.9	1747.3	1692.5	1674.6	1647.3
12.5°	2858.6	2807.8	2607.7	2305.8	1985.4	1745.7	1597.3	1542.3	1514.1	1504.4	1506.9
15°	2904.6	2820.7	2526.1	2100.8	1752.1	1552.1	1456.0	1418.1	1403.5	1402.7	1405.9
17.5°	2939.4	2823.2	2399.4	1881.3	1573.0	1435.0	1355.9	1341.3	1351.1	1365.6	1371.2
20°	2978.1	2801.3	2233.2	1681.1	1447.1	1332.5	1299.4	1309.1	1332.5	1353.5	1360.7
22.5°	3005.6	2761.9	2032.3	1525.4	1338.1	1273.6	1271.9	1292.1	1305.0	1315.6	1321.2
25°	3029.8	2694.8	1819.2	1394.6	1248.6	1238.1	1255.8	1249.4	1240.5	1249.4	1255.0
27.5°	3047.5	2589.1	1628.7	1280.0	1185.6	1213.8	1203.4	1188.8	1188.0	1192.9	1200.9
30°	3041.9	2447.9	1472.1	1171.1	1141.2	1168.6	1143.6	1141.2	1138.8	1141.2	1150.0
32.5°	3041.9	2287.3	1351.9	1096.0	1112.9	1102.5	1100.0	1094.4	1084.8	1083.9	1094.4
35°	3058.8	2126.7	1248.6	1055.6	1089.6	1064.6	1066.1	1052.5	1032.3	1022.5	1032.3
37.5°	3093.6	1997.5	1146.1	1036.3	1048.4	1047.6	1041.1	1017.7	982.3	951.5	962.1
40°	3177.5	1959.6	1075.8	1027.5	1029.0	1038.7	1021.7	976.5	895.8	845.8	852.3
42.5°	3309.0	2023.4	1060.5	1005.6	1016.1	1025.8	992.7	887.8	830.5	800.6	800.6
45°	3476.1	2134.8	1093.6	974.2	985.4	1002.3	903.9	853.9	828.1	828.9	832.9
47.5°	3687.5	2251.7	1155.0	946.7	941.1	950.8	845.0	814.4	778.8	787.7	810.3
50°	3932.1	2370.4	1213.1	909.6	891.9	860.4	807.1	778.0	732.9	711.9	717.5
52.5°	4196.8	2485.0	1236.5	864.4	838.6	802.3	781.3	745.8	690.8	656.2	655.4
55°	4447.8	2589.1	1210.6	810.3	785.3	757.1	753.8	732.1	673.1	624.6	624.6
57.5°	4685.1	2676.3	1146.1	755.4	731.2	714.2	736.1	725.6	651.3	589.2	585.9
60°	4886.1	2736.0	1052.5	699.8	682.8	673.9	707.0	703.8	620.6	551.2	548.8
62.5°	5045.9	2759.4	949.1	646.5	642.5	626.3	666.7	666.7	581.9	514.1	511.7
65°	5170.9	2736.9	844.2	594.0	602.1	577.9	617.5	612.5	540.8	481.0	477.8
67.5°	5281.5	2662.5	728.0	542.3	560.9	530.2	565.8	554.4	495.6	447.9	444.7
70°	5330.7	2489.8	595.6	490.7	513.3	483.4	514.1	493.1	444.7	412.5	406.0
72.5°	4935.3	2069.4	468.9	436.6	456.0	431.8	458.4	434.2	389.8	375.3	363.2
75°	4083.0	1552.8	360.8	377.7	392.3	373.7	391.4	373.7	333.3	343.8	314.0
77.5°	2965.2	1048.4	276.0	315.6	322.1	312.3	327.7	307.5	271.2	268.8	256.7
80°	1474.6	614.2	216.3	249.4	246.9	240.5	258.3	248.6	217.9	230.8	228.4
82.5°	426.9	263.1	157.3	175.2	170.3	171.9	184.8	189.6	284.1	281.7	288.1
85°	134.0	103.3	94.4	97.7	92.9	95.2	109.0	216.3	200.2	117.1	126.7
87.5°	34.7	35.5	23.4	25.0	25.8	30.6	34.7	131.5	62.9	41.2	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

(END OF REPORT)