

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: P969874

Luminaire Tested: **NAV-SB6A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23135.3 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

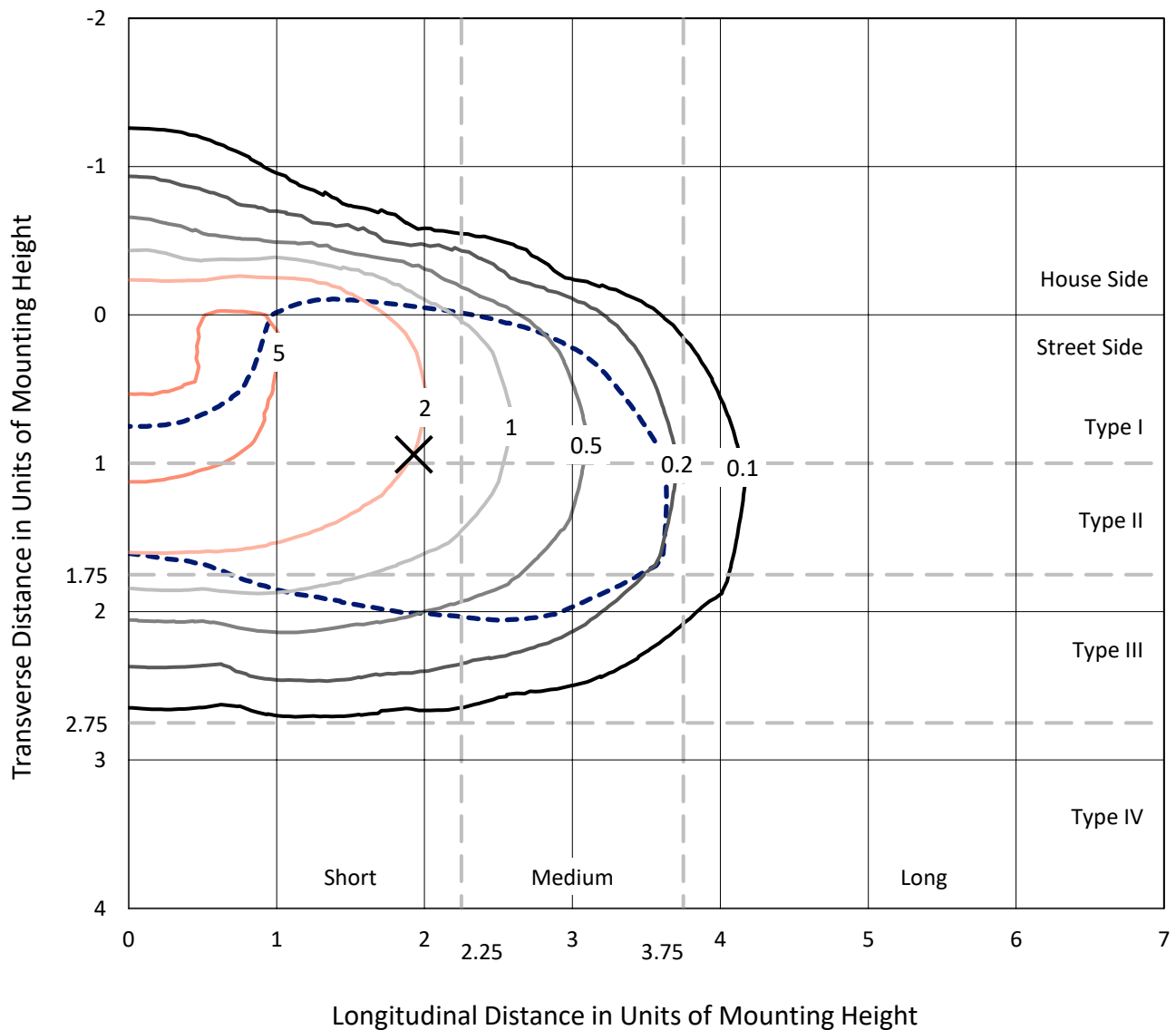


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

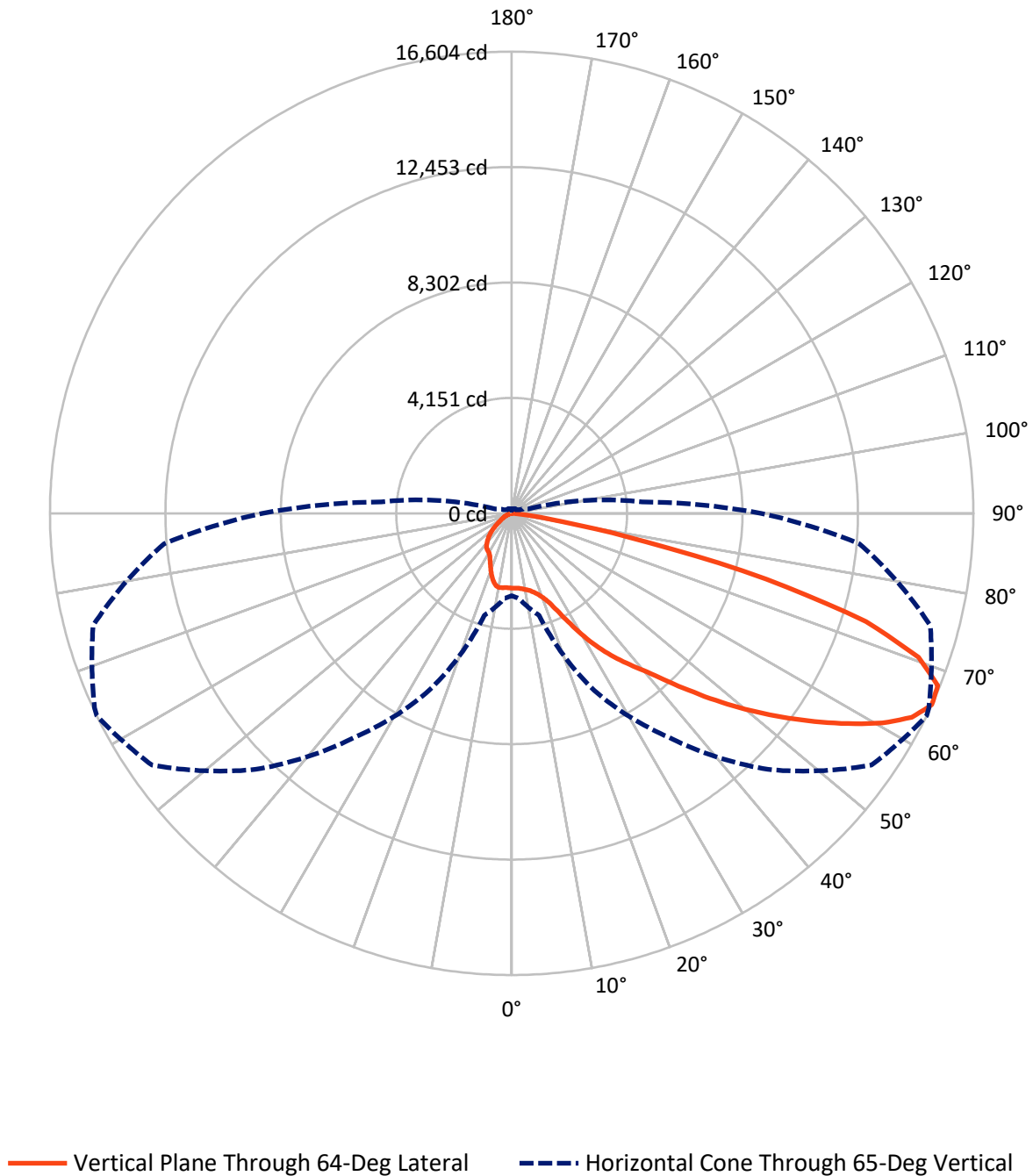


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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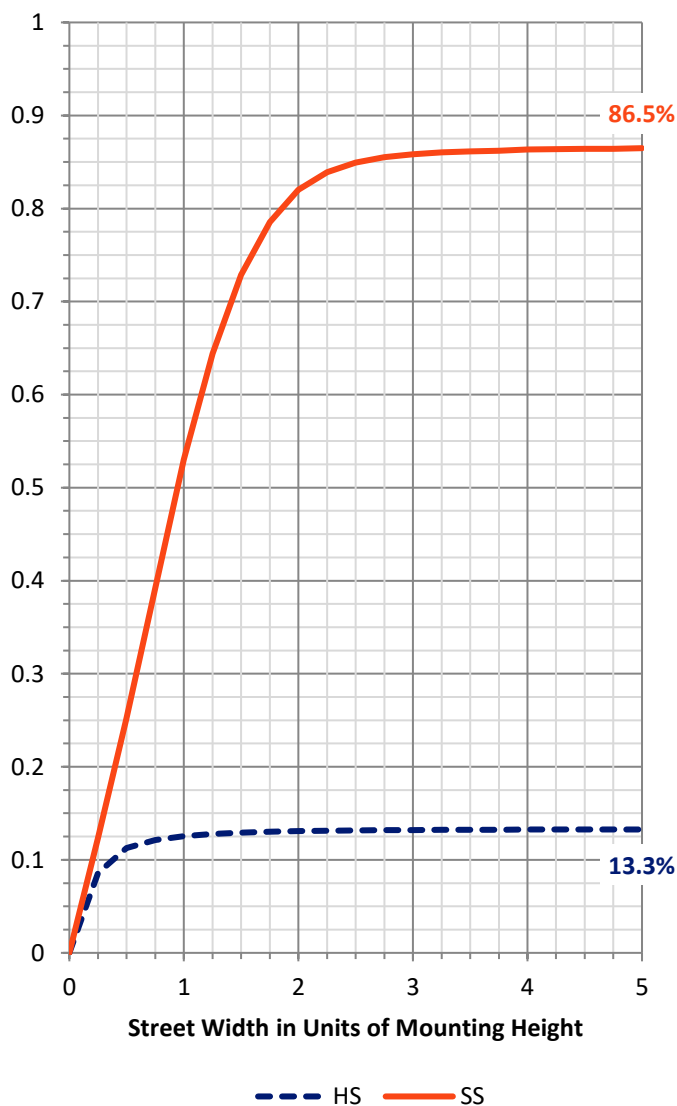
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.9	0.0	3093.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20041.4	0.0	20041.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	23135.3	0.0	23135.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	673.4	2.9
20°-30°	1275.9	5.5
30°-40°	2581.9	11.2
40°-50°	4398.3	19.0
50°-60°	5981.4	25.9
60°-70°	5616.8	24.3
70°-80°	2250.3	9.7
80°-90°	109.0	0.5
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°	23135.3	100.0
0°-180°	23135.3	100.0

Coefficient of Utilization



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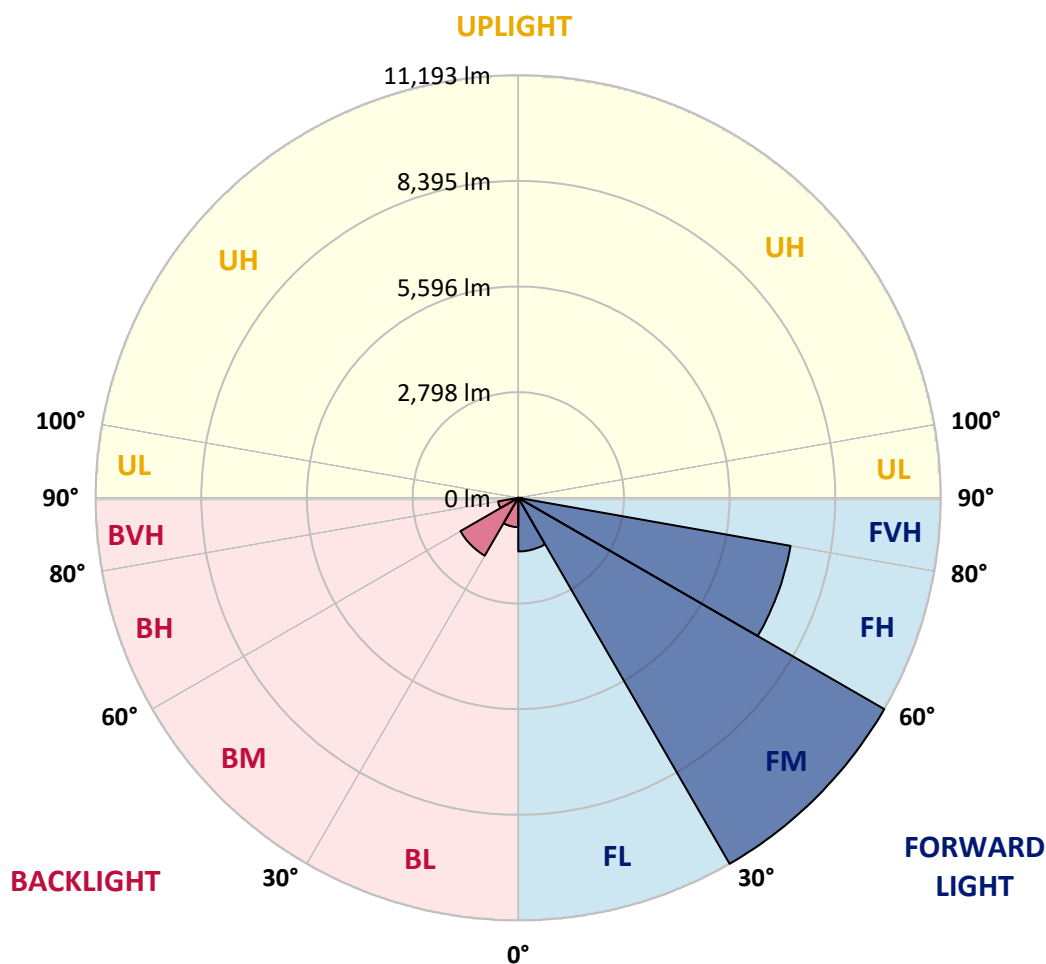
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.8	6.1			
FM	(30°-60°)	11192.8	48.4			
FH	(60°-80°)	7324.1	31.7			G3/7500
FVH	(80°-90°)	103.7	0.4			G2/225
BL	(0°-30°)	776.8	3.4	B2/1000		
BM	(30°-60°)	1768.8	7.6	B2/2500		
BH	(60°-80°)	543.0	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.3	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8
2.5°	2681.6	2700.2	2695.5	2690.8	2689.3	2692.5	2694.0	2692.5	2692.5	2692.5	2694.0
5°	2630.4	2645.9	2645.9	2656.8	2672.3	2690.8	2704.9	2707.9	2711.0	2715.7	2714.1
7.5°	2532.7	2545.1	2554.4	2590.1	2628.8	2678.4	2720.4	2742.1	2745.2	2762.2	2768.4
10°	2465.9	2481.5	2497.0	2534.2	2590.1	2664.5	2735.8	2788.6	2796.3	2836.7	2855.2
12.5°	2462.9	2478.3	2498.5	2538.9	2604.0	2683.1	2770.0	2846.0	2860.0	2918.9	2957.6
15°	2495.5	2514.0	2532.7	2582.3	2652.1	2748.2	2841.3	2935.9	2949.8	3033.6	3075.5
17.5°	2562.2	2587.0	2600.9	2650.5	2725.0	2832.0	2954.6	3063.1	3075.5	3173.2	3226.0
20°	2694.0	2723.4	2728.1	2768.4	2841.3	2956.1	3101.9	3236.8	3252.3	3363.9	3422.9
22.5°	2967.0	3008.8	2971.6	2991.8	3056.9	3171.7	3329.8	3500.5	3522.2	3649.3	3702.1
25°	3447.7	3506.6	3410.5	3376.4	3404.3	3523.7	3722.3	3937.8	3962.6	4065.0	4091.4
27.5°	4392.2	4316.3	4170.4	4027.7	3944.0	4012.3	4235.6	4502.4	4533.4	4632.7	4601.6
30°	5429.8	5363.1	5166.2	4849.8	4651.2	4640.4	4846.7	5144.5	5180.1	5274.8	5180.1
32.5°	6469.0	6405.3	6191.3	5802.0	5457.7	5287.2	5429.8	5760.2	5778.7	5839.3	5699.7
35°	7491.0	7425.9	7211.9	6813.3	6389.8	6002.1	5974.2	6346.4	6352.6	6416.2	6208.4
37.5°	8519.3	8465.0	8237.0	7846.2	7429.0	6893.9	6634.9	6901.6	6909.4	6971.4	6755.9
40°	9252.9	9276.1	9119.5	8817.0	8458.8	7874.0	7376.2	7492.5	7446.0	7549.9	7421.2
42.5°	9882.5	9929.1	9792.6	9640.6	9432.8	8917.9	8294.4	8274.2	8199.8	8255.7	8122.2
45°	10426.9	10465.8	10343.2	10307.5	10302.9	9941.5	9297.9	9176.9	9073.0	9062.1	8902.3
47.5°	10627.0	10701.4	10754.2	10873.6	11106.3	10954.3	10335.4	10147.8	10031.5	9946.2	9693.3
50°	10703.0	10782.1	10962.0	11309.4	11860.0	11925.2	11368.4	11157.4	11014.8	10859.7	10487.4
52.5°	10600.7	10741.8	10983.7	11568.5	12367.1	12703.7	12359.4	12174.8	12012.0	11759.2	11207.0
55°	9997.3	10138.5	10633.2	11565.3	12620.0	13249.7	13296.2	13214.0	13030.9	12632.4	11788.6
57.5°	8725.5	8934.9	9718.1	11171.4	12615.3	13719.5	14214.3	14273.2	14068.5	13497.8	12246.2
60°	6963.7	7247.6	8202.9	10298.2	12226.0	13973.9	15019.2	15313.9	15096.8	14350.8	12616.8
62.5°	4859.1	5187.8	6092.1	8930.3	11335.8	13791.0	15607.1	16151.4	15987.0	15113.8	12759.5
65°	2963.8	3069.3	3798.2	7027.3	9822.1	13024.8	15788.5	16604.3	16550.1	15580.7	12548.7
67.5°	1974.4	2062.7	2272.1	4818.7	7624.4	11493.9	15354.3	16525.3	16540.7	15504.7	11776.2
70°	1189.6	1265.6	1402.0	2802.6	4941.3	9097.8	14009.6	15517.1	15607.1	14488.9	10312.2
72.5°	490.1	541.3	665.3	1270.2	2559.0	5774.1	11155.9	13322.5	13531.9	12182.6	7914.4
75°	277.6	304.0	390.8	637.4	1110.5	2690.8	6757.4	9457.6	9766.2	8396.8	4761.3
77.5°	184.6	197.0	252.8	412.6	625.0	918.2	2887.8	4927.3	5516.7	4586.2	2061.2
80°	124.0	134.9	173.7	276.0	406.3	393.9	919.7	1825.4	2245.8	1575.7	502.5
82.5°	83.7	85.3	124.0	181.4	257.5	190.8	271.4	567.6	713.4	456.0	190.8
85°	48.1	46.5	91.5	105.5	114.8	79.1	82.2	170.6	223.3	192.3	108.5
87.5°	6.3	9.3	35.7	27.9	15.5	17.0	17.0	29.4	43.5	46.5	23.3
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°	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8	2690.8
2.5°	2694.0	2692.5	2687.8	2683.1	2672.3	2666.0	2669.2	2666.0	2664.5	2666.0	2672.3
5°	2714.1	2709.5	2697.1	2681.6	2659.9	2633.5	2616.4	2591.6	2568.3	2554.4	2557.5
7.5°	2768.4	2763.8	2746.7	2703.2	2633.5	2523.3	2422.6	2334.1	2267.5	2228.7	2230.2
10°	2855.2	2847.6	2821.1	2725.0	2542.0	2301.6	2101.6	1935.6	1827.0	1775.8	1771.2
12.5°	2957.6	2948.3	2901.8	2704.9	2368.3	1992.9	1716.9	1532.4	1431.5	1386.5	1381.9
15°	3078.6	3066.2	2974.7	2608.6	2115.5	1651.8	1398.9	1261.0	1195.8	1155.5	1157.0
17.5°	3229.1	3207.3	3029.0	2464.4	1841.0	1391.2	1203.6	1099.6	1042.2	1003.5	1000.4
20°	3424.4	3388.8	3072.4	2292.3	1588.1	1226.8	1071.7	984.8	941.5	907.3	901.1
22.5°	3697.4	3646.2	3125.1	2106.2	1409.8	1113.6	974.0	910.4	874.7	836.0	829.7
25°	4035.5	3975.1	3190.3	1934.0	1287.3	1015.9	902.6	849.9	808.0	763.0	758.4
27.5°	4508.6	4400.0	3267.8	1792.9	1181.8	932.1	837.5	778.6	730.5	693.3	685.5
30°	5035.9	4857.6	3336.1	1707.5	1085.7	854.5	752.2	693.3	648.3	622.0	617.3
32.5°	5535.3	5293.3	3381.1	1670.3	998.8	766.2	659.2	595.5	561.4	553.7	558.3
35°	6006.8	5687.3	3376.4	1634.7	921.3	677.7	567.6	502.5	476.1	480.8	480.8
37.5°	6549.6	6107.6	3343.9	1578.8	857.6	597.1	488.5	431.1	407.8	409.5	415.6
40°	7180.8	6593.0	3323.7	1473.4	787.9	522.6	423.4	376.9	359.8	353.6	352.1
42.5°	7854.0	7063.0	3326.7	1353.9	701.0	456.0	378.4	339.7	324.1	319.5	318.0
45°	8530.2	7511.2	3331.5	1229.9	609.6	404.8	345.8	313.2	304.0	297.8	297.8
47.5°	9166.1	7892.7	3244.5	1096.5	519.6	366.0	319.5	297.8	290.1	282.3	282.3
50°	9758.5	8147.1	3035.2	941.5	448.2	335.0	299.3	283.8	276.0	268.3	268.3
52.5°	10219.1	8187.4	2689.3	781.7	398.6	311.7	286.9	273.0	263.6	255.9	254.3
55°	10423.8	7934.6	2197.7	632.7	359.8	291.6	274.5	260.6	249.7	241.9	240.4
57.5°	10371.2	7402.7	1713.8	508.7	322.6	271.4	259.0	249.7	237.3	224.9	223.3
60°	10112.1	6690.7	1291.9	423.4	288.4	249.7	241.9	234.2	217.1	198.5	195.5
62.5°	9663.9	5795.9	921.3	350.5	251.2	224.9	221.8	215.6	190.8	156.6	153.5
65°	8978.4	4708.6	620.3	291.6	215.6	197.0	198.5	187.7	155.1	116.3	113.3
67.5°	7976.4	3443.1	397.1	238.8	179.9	164.4	165.9	159.8	131.8	99.2	94.6
70°	6700.0	2279.9	259.0	181.4	144.2	127.2	136.5	138.1	111.6	80.7	77.6
72.5°	4911.8	1346.2	181.4	134.9	105.5	88.4	111.6	114.8	90.0	60.5	57.4
75°	2799.5	639.0	136.5	97.7	65.2	62.0	86.8	86.8	62.0	40.3	37.2
77.5°	1175.6	266.8	96.1	63.6	37.2	35.7	58.9	54.3	31.1	18.7	18.7
80°	339.7	119.4	51.1	31.1	15.5	13.9	23.3	17.0	7.8	3.1	3.1
82.5°	133.4	52.7	20.2	12.4	6.3	6.3	3.1	0.0	0.0	0.0	0.0
85°	79.1	21.7	9.3	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)