

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: P964747

Luminaire Tested: **NAV-SB3C-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21176.5 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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



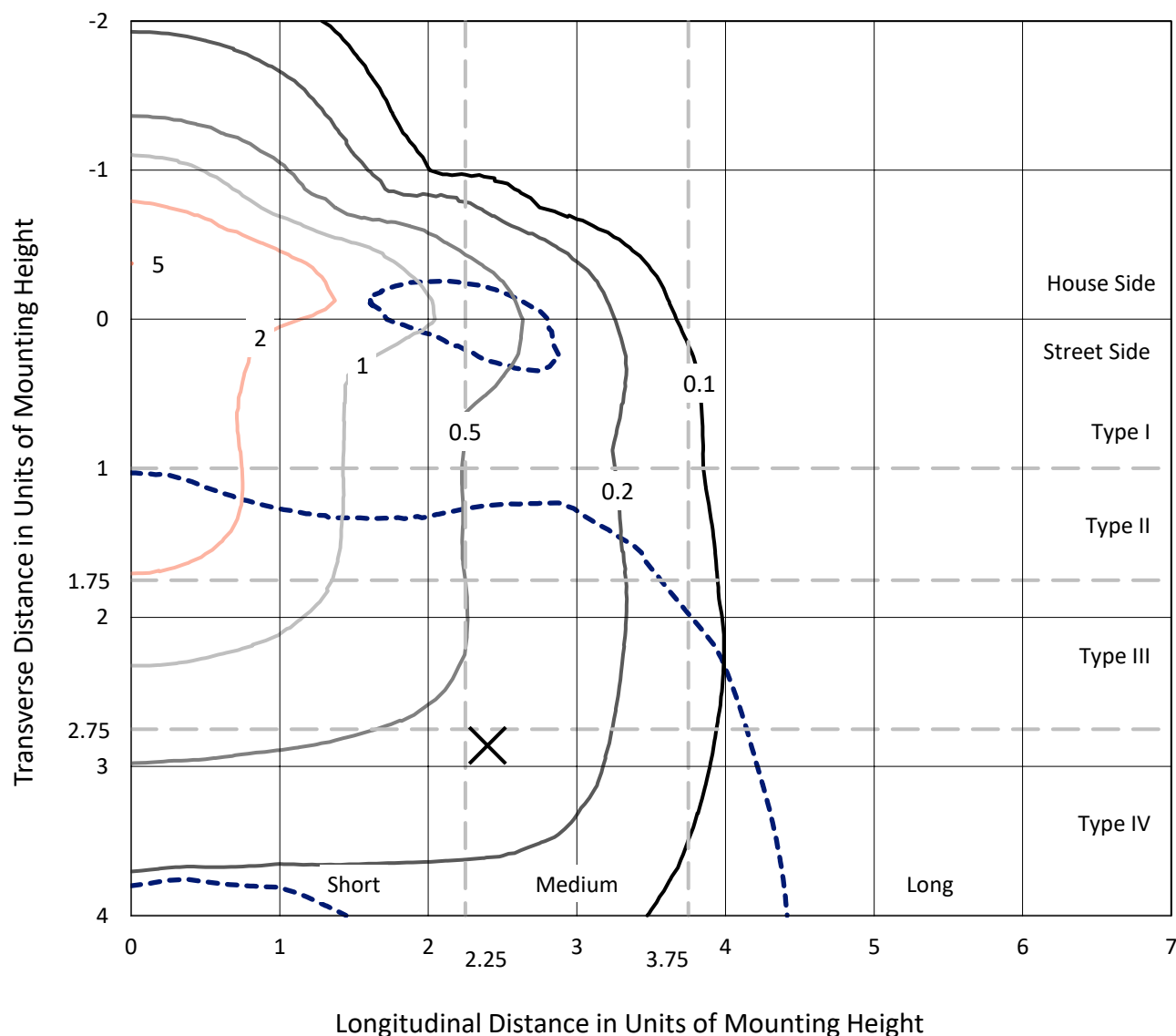
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

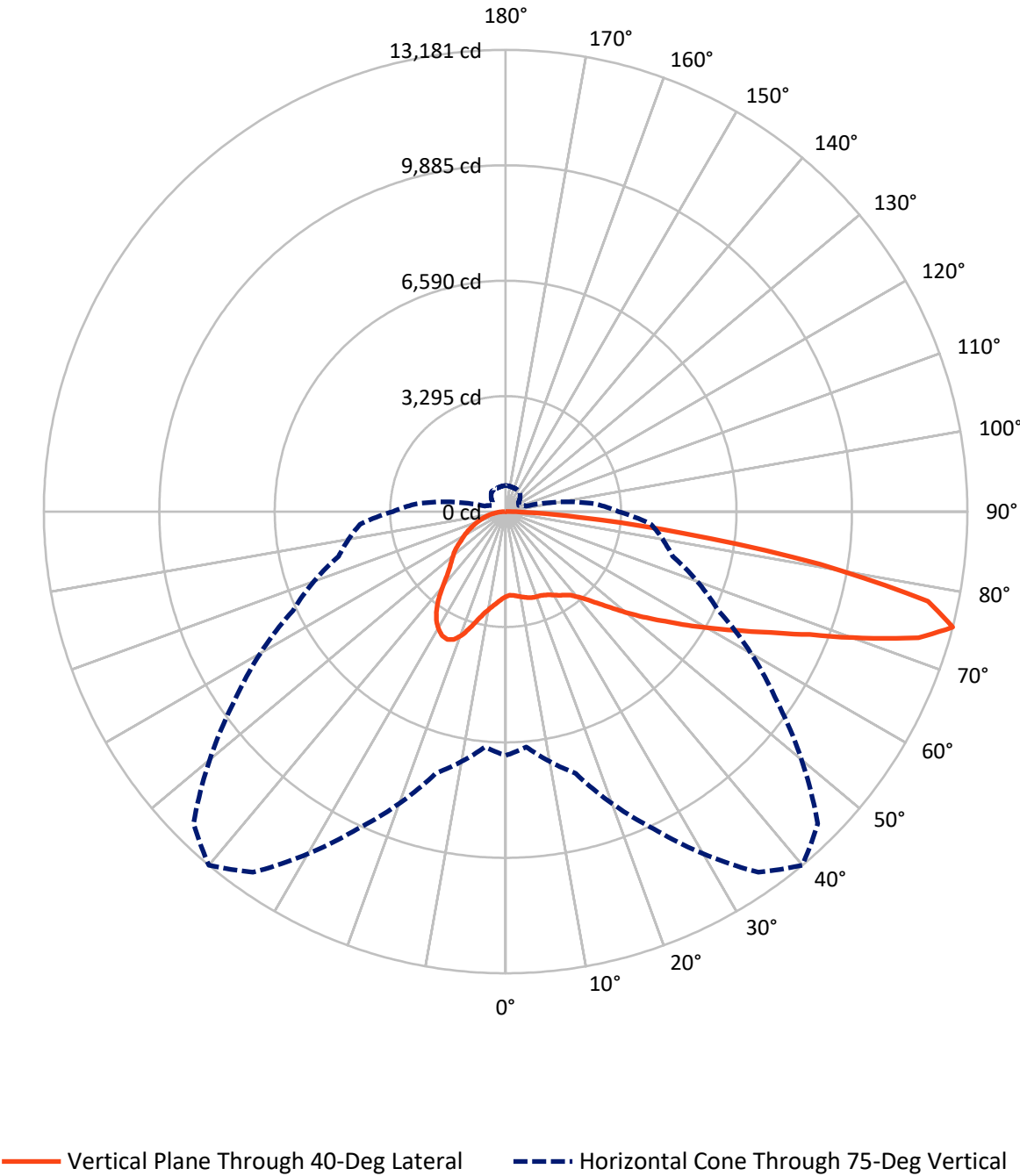


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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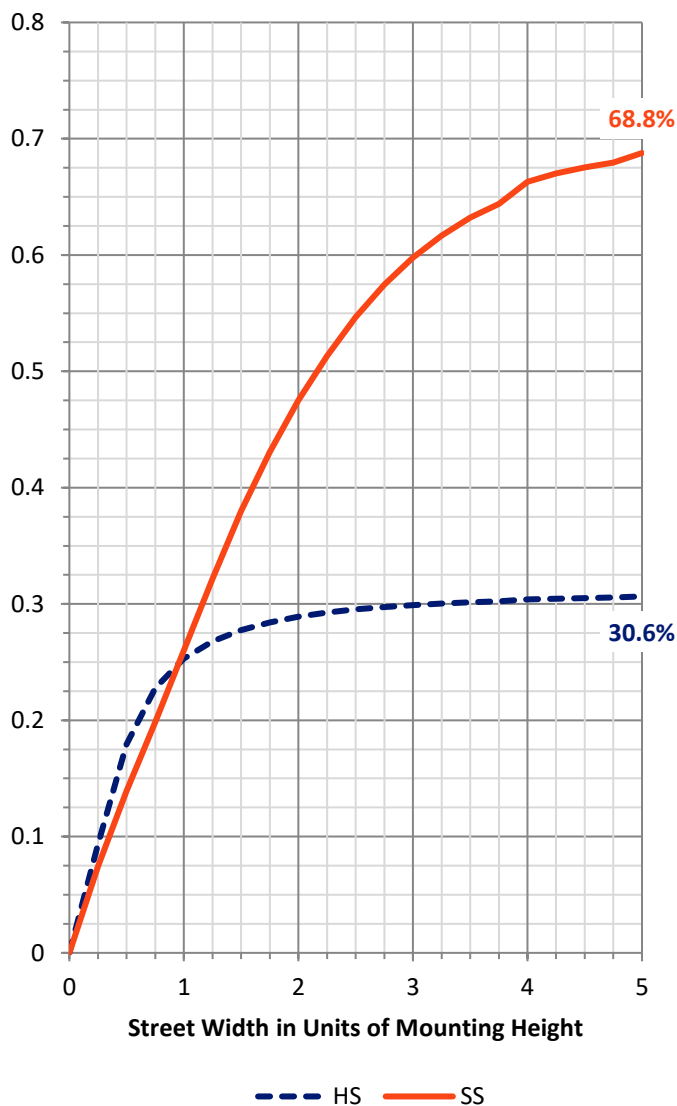
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6561.2	0.0	6561.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14615.3	0.0	14615.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	21176.5	0.0	21176.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.1
10°-20°	811.6	3.8
20°-30°	1481.8	7.0
30°-40°	2101.7	9.9
40°-50°	2837.9	13.4
50°-60°	3817.7	18.0
60°-70°	4845.5	22.9
70°-80°	4397.6	20.8
80°-90°	641.0	3.0
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°	21176.5	100.0
0°-180°	21176.5	100.0

Coefficient of Utilization



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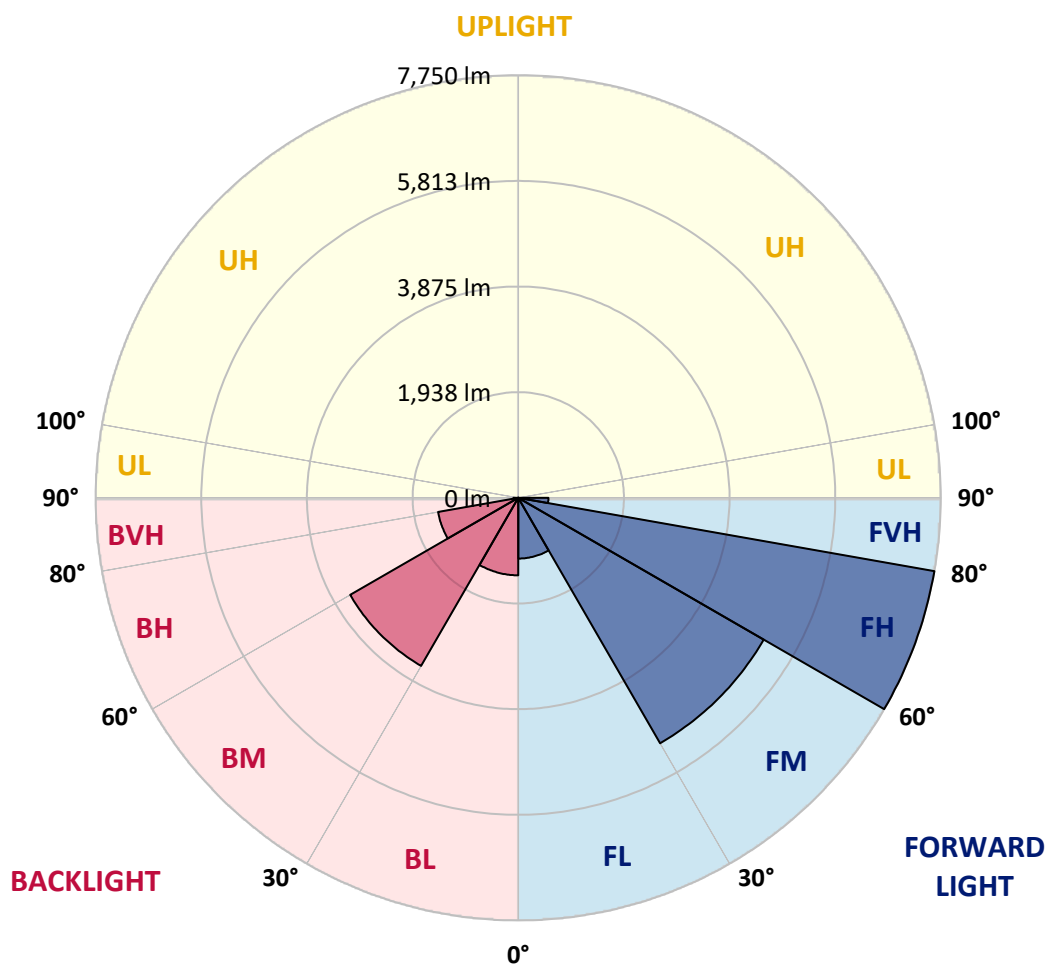
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.9	5.3			
FM	(30°-60°)	5198.4	24.5			
FH	(60°-80°)	7750.3	36.6			G4/12000
FVH	(80°-90°)	552.8	2.6			G4/750
BL	(0°-30°)	1421.2	6.7	B3/2500		
BM	(30°-60°)	3558.9	16.8	B3/5000		
BH	(60°-80°)	1492.9	7.0	B3/2500		G3/2500
BVH	(80°-90°)	88.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6
2.5°	2384.5	2398.0	2394.6	2390.1	2390.1	2391.2	2390.1	2398.0	2405.9	2413.7	2426.1
5°	2409.2	2422.7	2415.9	2410.3	2405.9	2404.8	2401.4	2400.2	2404.8	2414.8	2431.7
7.5°	2457.5	2471.0	2460.9	2450.8	2441.8	2437.2	2432.8	2426.1	2422.7	2428.3	2451.9
10°	2511.5	2524.9	2512.6	2494.5	2480.0	2474.4	2469.8	2463.1	2458.7	2461.9	2487.8
12.5°	2565.4	2578.8	2562.0	2537.3	2518.1	2514.7	2509.2	2506.9	2505.8	2504.7	2530.5
15°	2615.9	2627.1	2605.8	2576.5	2556.4	2550.7	2545.1	2548.5	2554.1	2560.9	2590.1
17.5°	2655.2	2666.4	2635.0	2596.7	2577.7	2575.4	2572.0	2583.3	2599.0	2615.9	2651.8
20°	2691.1	2702.3	2661.9	2610.3	2587.8	2587.8	2588.9	2612.5	2635.0	2659.7	2709.1
22.5°	2741.7	2750.7	2701.2	2630.5	2597.9	2600.1	2609.1	2632.7	2660.8	2694.5	2763.0
25°	2816.9	2823.7	2763.0	2668.7	2631.6	2638.4	2646.2	2657.4	2684.4	2723.7	2815.8
27.5°	2938.3	2943.8	2864.1	2736.0	2679.9	2691.1	2702.3	2694.5	2706.8	2740.5	2858.5
30°	3108.9	3112.3	3011.2	2841.6	2761.9	2767.5	2769.8	2737.2	2713.6	2740.5	2888.8
32.5°	3311.2	3310.0	3189.8	2969.6	2855.1	2849.5	2830.4	2766.4	2711.3	2734.9	2915.7
35°	3624.5	3612.1	3457.1	3149.4	2960.7	2925.9	2881.0	2799.0	2722.6	2729.3	2939.4
37.5°	4143.4	4105.2	3890.7	3443.7	3117.9	3029.2	2963.0	2851.8	2747.3	2727.1	2967.4
40°	4728.5	4680.3	4444.4	3846.8	3353.8	3211.1	3104.4	2927.0	2787.7	2737.2	3009.0
42.5°	5422.7	5354.2	5100.3	4322.0	3652.6	3445.8	3285.3	3022.4	2847.2	2769.8	3065.2
45°	6275.2	6184.2	5824.8	4857.7	4028.9	3753.7	3539.1	3167.4	2938.3	2832.7	3149.4
47.5°	7136.7	7159.1	6648.0	5470.9	4480.4	4133.3	3857.0	3385.3	3070.8	2933.8	3285.3
50°	8052.0	8067.8	7466.8	6150.5	4992.5	4562.4	4214.2	3629.0	3255.0	3077.5	3488.6
52.5°	8766.4	8768.6	8210.4	6861.5	5526.0	5034.1	4599.4	3907.5	3468.4	3268.4	3759.3
55°	9213.4	9207.8	8731.6	7534.3	6139.2	5529.4	5026.2	4224.2	3729.0	3493.1	4099.6
57.5°	9538.0	9521.1	9090.9	8112.7	6793.0	6114.5	5509.2	4583.7	4036.7	3760.4	4547.7
60°	9661.5	9651.4	9334.7	8612.5	7480.3	6761.5	6066.3	4985.8	4386.0	4076.0	5123.9
62.5°	9708.7	9727.8	9573.9	9096.6	8216.0	7478.1	6678.4	5466.5	4779.1	4433.1	5731.6
65°	9875.0	9909.8	9878.3	9730.0	9047.2	8317.1	7490.4	6038.2	5208.1	4816.2	6366.2
67.5°	10204.0	10238.8	10252.4	10488.2	10062.5	9362.8	8503.5	6750.2	5710.2	5213.8	6843.5
70°	10196.2	10186.0	10424.1	11091.3	11333.9	10810.6	9869.3	7626.3	6308.9	5544.0	6904.2
72.5°	9280.8	9199.9	9762.6	11084.6	12391.9	12322.3	11537.2	8756.3	6825.5	5584.4	5991.0
75°	6962.5	6746.9	7740.9	9989.5	12568.3	13180.5	12597.6	9457.2	6703.1	4934.1	4169.2
77.5°	2977.5	2760.7	3932.2	7395.0	11248.6	12321.2	11624.8	8250.8	5350.8	3262.8	2047.5
80°	779.5	778.4	1188.3	3352.7	7649.9	9098.8	7982.4	5328.4	3057.3	1165.8	565.0
82.5°	322.4	314.5	437.0	1304.0	3738.0	5105.9	4166.9	2376.7	1104.1	315.6	187.6
85°	120.1	119.1	212.3	450.4	1318.6	2106.0	1524.2	607.6	275.2	153.9	84.3
87.5°	33.7	32.6	46.0	156.1	321.2	487.5	260.6	99.9	77.5	60.7	24.7
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°	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6	2421.6
2.5°	2429.5	2435.0	2445.1	2453.0	2463.1	2474.4	2490.0	2500.2	2510.3	2517.0	2512.6
5°	2439.5	2451.9	2477.7	2503.6	2533.9	2562.0	2594.5	2618.2	2637.2	2642.9	2645.1
7.5°	2461.9	2482.2	2526.0	2569.8	2618.2	2664.2	2711.3	2751.8	2784.3	2796.7	2797.8
10°	2501.3	2528.3	2590.1	2651.8	2715.8	2786.6	2847.2	2905.7	2951.7	2970.8	2971.9
12.5°	2550.7	2584.4	2665.3	2750.7	2839.4	2937.1	3015.8	3087.6	3144.9	3170.7	3170.7
15°	2614.8	2658.5	2761.9	2876.5	3006.7	3142.6	3242.6	3322.3	3386.4	3417.9	3415.6
17.5°	2684.4	2742.8	2873.1	3046.1	3232.5	3411.1	3527.8	3586.3	3652.6	3682.9	3681.8
20°	2751.8	2823.7	3010.1	3261.7	3509.9	3699.7	3794.0	3809.8	3814.3	3817.7	3826.6
22.5°	2821.4	2918.0	3181.9	3533.5	3799.7	3931.1	3944.6	3877.2	3782.9	3739.0	3751.4
25°	2897.8	3025.8	3406.6	3833.4	4049.1	4064.7	3961.4	3797.4	3618.9	3536.9	3549.3
27.5°	2971.9	3150.5	3676.2	4119.8	4228.7	4090.6	3868.2	3635.7	3420.0	3333.6	3343.7
30°	3046.1	3293.1	3973.8	4370.3	4310.7	4026.6	3721.1	3461.6	3244.8	3153.8	3164.0
32.5°	3121.3	3459.4	4316.4	4551.1	4296.2	3890.7	3538.0	3266.2	3075.2	2979.8	2992.2
35°	3206.6	3663.8	4641.0	4649.9	4198.4	3690.7	3296.5	3032.6	2866.3	2789.9	2806.9
37.5°	3317.8	3923.3	4927.4	4674.6	4027.7	3397.6	2996.6	2756.2	2619.3	2584.4	2609.1
40°	3456.0	4235.5	5146.4	4635.4	3775.0	3041.6	2668.7	2476.6	2399.1	2407.0	2434.0
42.5°	3635.7	4584.8	5300.3	4534.3	3423.4	2674.2	2381.2	2295.8	2332.8	2364.3	2393.5
45°	3869.4	4947.6	5395.7	4362.4	3025.8	2363.1	2211.5	2231.7	2259.8	2263.2	2285.6
47.5°	4168.1	5314.8	5458.6	4103.0	2620.4	2144.1	2103.7	2108.2	2102.6	2079.0	2096.9
50°	4541.0	5672.0	5514.8	3759.3	2275.5	2007.2	1953.2	1937.5	1860.0	1783.6	1793.7
52.5°	4965.5	5999.9	5538.4	3332.5	2007.2	1892.6	1804.9	1706.1	1561.2	1537.6	1545.5
55°	5437.3	6303.2	5477.7	2807.9	1781.3	1745.4	1612.8	1493.8	1478.0	1457.9	1461.2
57.5°	6001.1	6630.1	5354.2	2222.7	1550.0	1573.6	1444.4	1457.9	1429.8	1398.3	1392.8
60°	6617.7	6968.2	5137.4	1689.3	1310.8	1359.0	1400.6	1399.4	1391.6	1365.8	1356.8
62.5°	7172.5	7190.6	4710.6	1293.9	1100.7	1192.8	1306.3	1305.1	1298.4	1283.8	1278.2
65°	7502.8	7156.9	3998.5	1018.7	927.7	1055.8	1178.2	1187.2	1188.3	1187.2	1187.2
67.5°	7444.4	6762.6	3021.3	811.0	785.0	916.6	1051.2	1063.6	1072.7	1074.9	1077.2
70°	6784.0	5896.6	1970.0	647.0	658.2	794.1	931.1	943.5	951.3	960.3	964.8
72.5°	5287.9	4335.4	1127.7	523.4	546.9	688.5	812.0	826.7	831.2	848.0	854.7
75°	3222.4	2549.6	608.7	412.3	449.3	588.6	694.1	710.9	718.8	739.0	741.3
77.5°	1532.0	1104.1	347.1	321.2	361.6	480.7	586.3	605.4	584.0	595.3	586.3
80°	517.8	410.0	219.0	244.9	276.3	375.2	469.4	488.6	443.6	441.4	437.0
82.5°	180.8	166.3	139.3	162.9	178.6	268.4	355.0	379.7	330.3	329.1	313.3
85°	70.7	67.3	77.5	88.8	106.7	165.1	233.6	246.0	203.3	164.0	161.7
87.5°	14.6	15.7	19.1	20.2	32.6	57.3	84.3	103.3	82.0	69.6	64.1
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)