

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: P964561

Luminaire Tested: **NAV-SB3C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964561
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-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 22830.8 lumens
Efficiency: N/A
Efficacy: 153.1 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



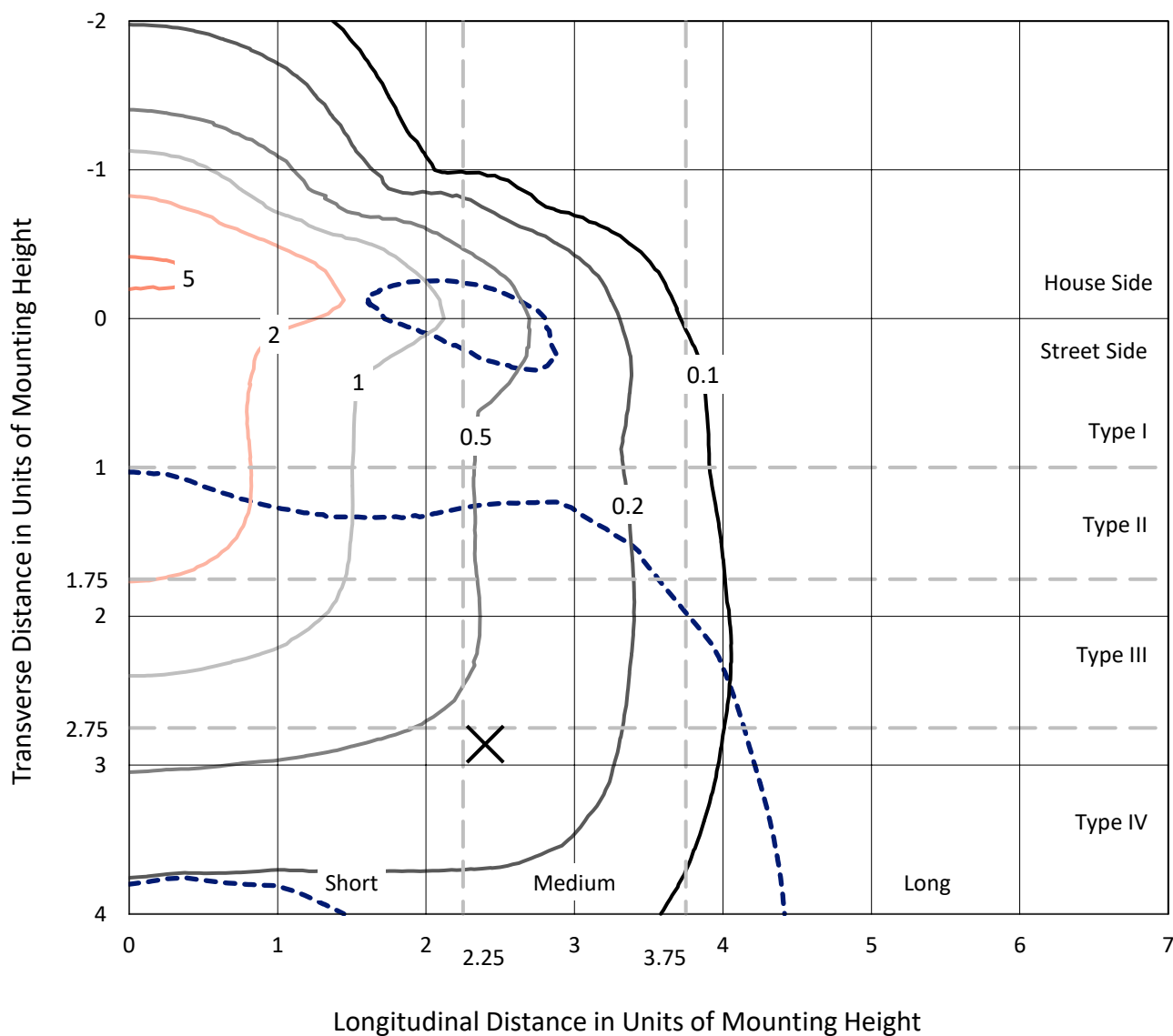
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

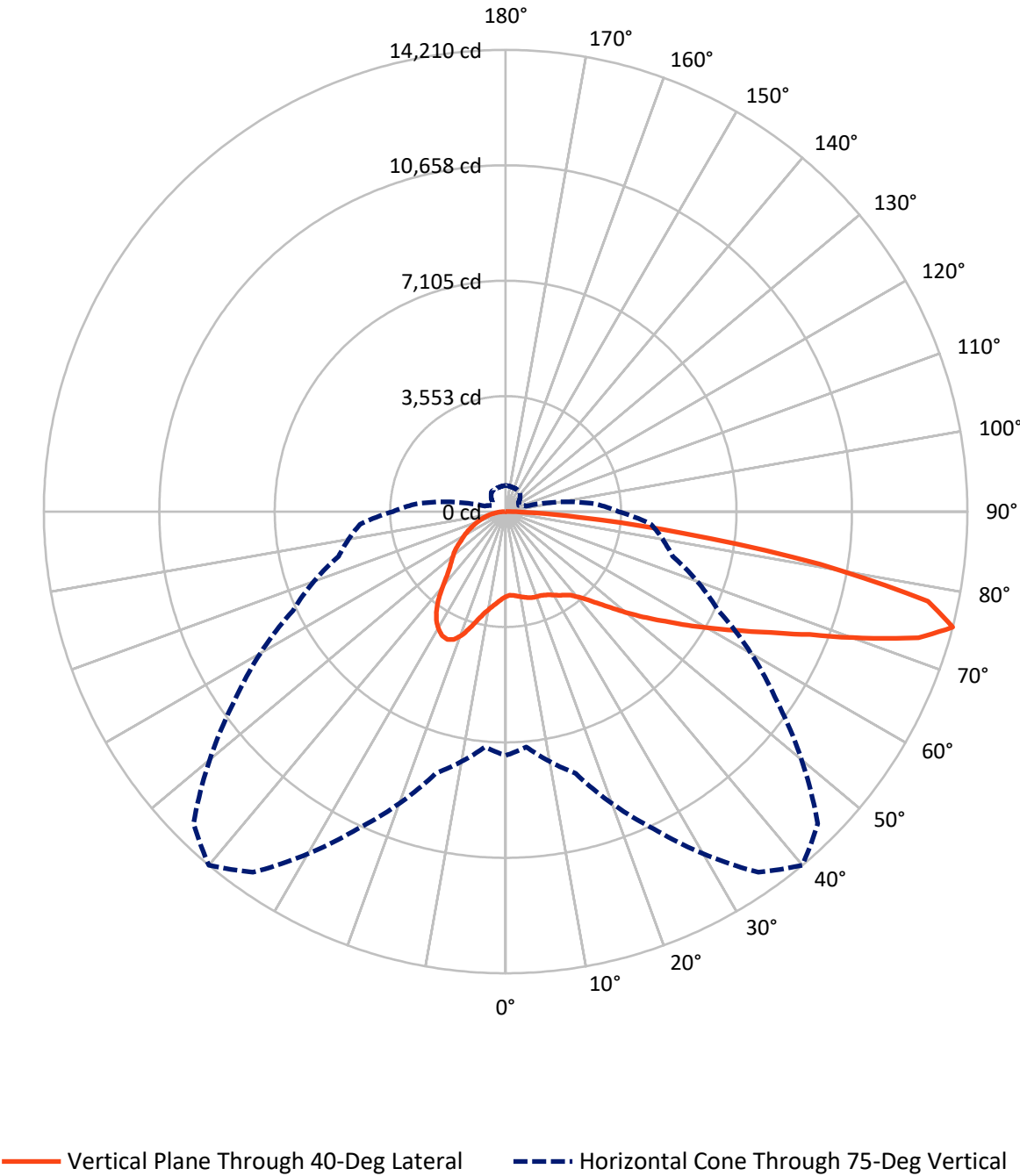
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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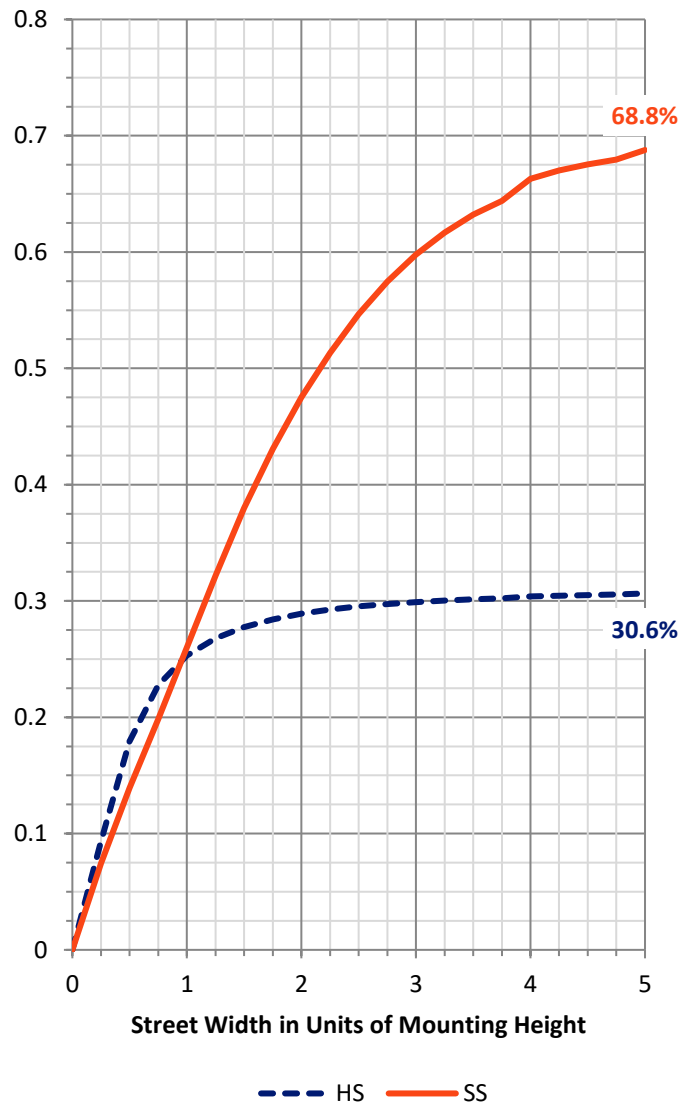
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7073.7	0.0	7073.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15757.1	0.0	15757.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	22830.8	0.0	22830.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.1
10°-20°	875.0	3.8
20°-30°	1597.6	7.0
30°-40°	2265.8	9.9
40°-50°	3059.6	13.4
50°-60°	4115.9	18.0
60°-70°	5224.1	22.9
70°-80°	4741.2	20.8
80°-90°	691.1	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°	22830.8	100.0
0°-180°	22830.8	100.0

Coefficient of Utilization



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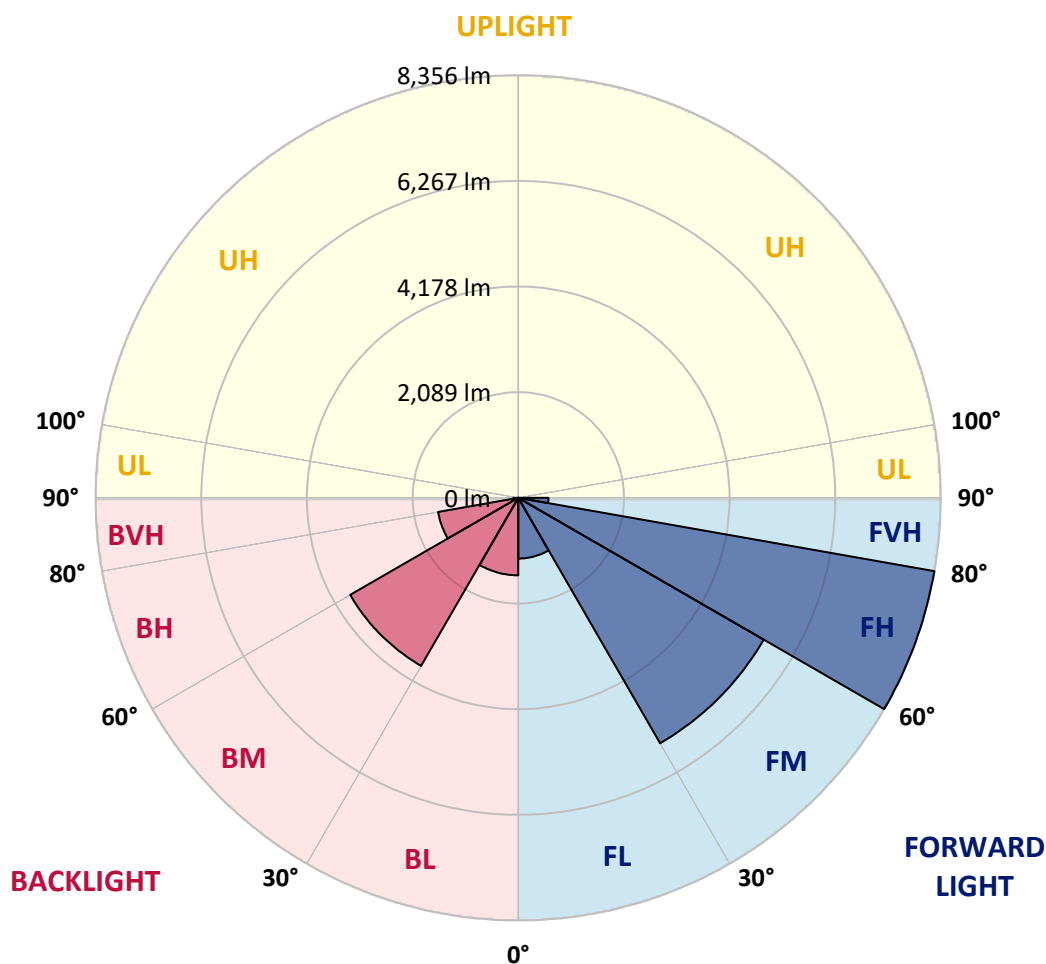
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1200.9	5.3			
FM	(30°-60°)	5604.5	24.5			
FH	(60°-80°)	8355.7	36.6			G4/12000
FVH	(80°-90°)	596.0	2.6			G4/750
BL	(0°-30°)	1532.2	6.7	B3/2500		
BM	(30°-60°)	3836.9	16.8	B3/5000		
BH	(60°-80°)	1609.5	7.0	B3/2500		G3/2500
BVH	(80°-90°)	95.1	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°	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8
2.5°	2570.8	2585.4	2581.7	2576.8	2576.8	2578.1	2576.8	2585.4	2593.8	2602.3	2615.6
5°	2597.5	2611.9	2604.7	2598.6	2593.8	2592.5	2588.9	2587.7	2592.5	2603.5	2621.6
7.5°	2649.5	2664.0	2653.1	2642.2	2632.5	2627.7	2622.9	2615.6	2611.9	2618.0	2643.5
10°	2707.6	2722.1	2708.9	2689.5	2673.7	2667.7	2662.8	2655.6	2650.6	2654.3	2682.2
12.5°	2765.8	2780.3	2762.1	2735.4	2714.9	2711.2	2705.2	2702.7	2701.6	2700.4	2728.2
15°	2820.2	2832.4	2809.3	2777.9	2756.0	2750.0	2743.9	2747.6	2753.7	2760.9	2792.4
17.5°	2862.6	2874.7	2840.8	2799.7	2779.1	2776.6	2773.0	2785.1	2802.0	2820.2	2858.9
20°	2901.4	2913.5	2869.9	2814.1	2789.9	2789.9	2791.2	2816.6	2840.8	2867.4	2920.7
22.5°	2955.9	2965.5	2912.2	2836.0	2800.8	2803.3	2813.0	2838.4	2868.7	2905.0	2978.9
25°	3037.0	3044.2	2978.9	2877.2	2837.2	2844.5	2852.9	2865.1	2894.1	2936.5	3035.7
27.5°	3167.8	3173.8	3087.8	2949.7	2889.3	2901.4	2913.5	2905.0	2918.3	2954.7	3081.8
30°	3351.9	3355.4	3246.5	3063.6	2977.6	2983.7	2986.1	2951.0	2925.6	2954.7	3114.5
32.5°	3569.8	3568.5	3439.0	3201.7	3078.2	3072.1	3051.5	2982.4	2923.2	2948.6	3143.6
35°	3907.6	3894.3	3727.2	3395.4	3192.0	3154.4	3106.0	3017.6	2935.3	2942.6	3169.0
37.5°	4467.1	4426.0	4194.6	3712.7	3361.5	3265.9	3194.4	3074.5	2961.9	2940.1	3199.2
40°	5097.9	5045.9	4791.6	4147.4	3615.8	3462.0	3346.9	3155.7	3005.5	2951.0	3244.0
42.5°	5846.3	5772.5	5498.8	4659.6	3937.9	3715.1	3541.9	3258.6	3069.7	2986.1	3304.6
45°	6765.4	6667.3	6279.9	5237.2	4343.5	4046.9	3815.6	3414.8	3167.8	3053.9	3395.4
47.5°	7694.2	7718.4	7167.4	5898.4	4830.3	4456.2	4158.3	3649.7	3310.6	3162.9	3541.9
50°	8681.0	8698.0	8050.1	6631.0	5382.5	4918.8	4543.3	3912.4	3509.2	3317.9	3761.1
52.5°	9451.2	9453.7	8851.8	7397.5	5957.7	5427.4	4958.7	4212.8	3739.3	3523.7	4053.0
55°	9933.2	9927.1	9413.7	8122.8	6618.8	5961.3	5418.9	4554.3	4020.3	3766.0	4419.8
57.5°	10283.1	10265.0	9801.2	8746.4	7323.6	6592.2	5939.6	4941.7	4352.0	4054.2	4903.0
60°	10416.4	10405.4	10064.0	9285.3	8064.7	7289.7	6540.1	5375.3	4728.6	4394.4	5524.2
62.5°	10467.2	10487.8	10321.9	9807.2	8857.8	8062.2	7200.1	5893.5	5152.5	4779.5	6179.3
65°	10646.4	10683.9	10650.1	10490.2	9753.9	8966.8	8075.6	6509.9	5615.1	5192.4	6863.5
67.5°	11001.2	11038.7	11053.3	11307.6	10848.6	10094.2	9167.9	7277.6	6156.4	5621.1	7378.2
70°	10992.7	10981.8	11238.5	11957.9	12219.3	11655.1	10640.3	8222.1	6801.7	5977.1	7443.6
72.5°	10005.8	9918.6	10525.3	11950.6	13360.1	13285.0	12438.6	9440.4	7358.8	6020.6	6459.0
75°	7506.5	7274.0	8345.7	10769.9	13550.2	14210.1	13581.7	10195.9	7226.8	5319.5	4494.9
77.5°	3210.1	2976.4	4239.4	7972.7	12127.3	13283.8	12533.0	8895.4	5768.8	3517.7	2207.5
80°	840.4	839.2	1281.1	3614.6	8247.6	9809.7	8606.0	5744.6	3296.1	1257.0	609.1
82.5°	347.6	339.1	471.1	1405.9	4029.9	5504.9	4492.5	2562.3	1190.3	340.3	202.2
85°	129.6	128.3	228.9	485.5	1421.6	2270.5	1643.2	655.1	296.6	165.8	90.8
87.5°	36.3	35.2	49.6	168.3	346.3	525.5	281.0	107.7	83.5	65.4	26.6
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°	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8	2610.8
2.5°	2619.2	2625.2	2636.2	2644.6	2655.6	2667.7	2684.6	2695.5	2706.4	2713.7	2708.9
5°	2630.1	2643.5	2671.3	2699.1	2731.8	2762.1	2797.2	2822.6	2843.2	2849.3	2851.8
7.5°	2654.3	2676.2	2723.3	2770.6	2822.6	2872.3	2923.2	2966.8	3001.8	3015.1	3016.4
10°	2696.7	2725.8	2792.4	2858.9	2928.0	3004.3	3069.7	3132.6	3182.3	3202.9	3204.0
12.5°	2750.0	2786.4	2873.5	2965.5	3061.2	3166.5	3251.3	3328.8	3390.6	3418.4	3418.4
15°	2819.1	2866.2	2977.6	3101.1	3241.7	3388.1	3496.0	3581.9	3650.9	3684.8	3682.4
17.5°	2894.1	2957.0	3097.5	3284.0	3485.0	3677.6	3803.5	3866.5	3937.9	3970.6	3969.4
20°	2966.8	3044.2	3245.3	3516.5	3784.1	3988.8	4090.5	4107.5	4112.3	4115.9	4125.6
22.5°	3041.8	3145.9	3430.6	3809.5	4096.5	4238.2	4252.7	4180.1	4078.4	4031.1	4044.4
25°	3124.2	3262.2	3672.7	4132.9	4365.4	4382.3	4270.9	4094.2	3901.6	3813.2	3826.5
27.5°	3204.0	3396.6	3963.4	4441.6	4559.1	4410.2	4170.4	3919.7	3687.2	3594.0	3604.9
30°	3284.0	3550.4	4284.2	4711.7	4647.5	4341.2	4011.7	3732.0	3498.3	3400.2	3411.2
32.5°	3365.2	3729.7	4653.6	4906.7	4631.8	4194.6	3814.4	3521.4	3315.5	3212.6	3225.9
35°	3457.1	3950.0	5003.5	5013.2	4526.4	3979.0	3554.1	3269.4	3090.3	3008.0	3026.1
37.5°	3577.0	4229.8	5312.3	5039.8	4342.3	3663.0	3230.7	2971.6	2823.9	2786.4	2813.0
40°	3726.0	4566.4	5548.4	4997.5	4069.9	3279.2	2877.2	2670.0	2586.5	2595.0	2624.1
42.5°	3919.7	4943.0	5714.3	4888.4	3690.9	2883.2	2567.1	2475.1	2515.0	2549.0	2580.4
45°	4171.6	5334.1	5817.3	4703.2	3262.2	2547.7	2384.3	2406.1	2436.3	2440.0	2464.2
47.5°	4493.7	5730.1	5885.0	4423.5	2825.1	2311.7	2268.0	2272.9	2266.8	2241.4	2260.7
50°	4895.7	6115.2	5945.6	4053.0	2453.3	2163.9	2105.8	2088.8	2005.3	1922.9	1933.9
52.5°	5353.5	6468.7	5971.0	3592.8	2163.9	2040.4	1946.0	1839.4	1683.2	1657.7	1666.2
55°	5862.1	6795.6	5905.6	3027.3	1920.5	1881.8	1738.9	1610.5	1593.6	1571.7	1575.4
57.5°	6469.9	7148.0	5772.5	2396.4	1671.1	1696.5	1557.3	1571.7	1541.5	1507.6	1501.5
60°	7134.7	7512.5	5538.7	1821.2	1413.2	1465.2	1510.0	1508.8	1500.3	1472.5	1462.8
62.5°	7732.9	7752.3	5078.6	1395.0	1186.7	1286.0	1408.2	1407.1	1399.8	1384.1	1378.0
65°	8088.9	7716.0	4310.8	1098.3	1000.2	1138.3	1270.3	1279.9	1281.1	1279.9	1279.9
67.5°	8026.0	7290.9	3257.3	874.3	846.4	988.1	1133.4	1146.8	1156.4	1158.9	1161.2
70°	7314.0	6357.4	2123.9	697.5	709.6	856.1	1003.9	1017.2	1025.6	1035.4	1040.2
72.5°	5701.0	4674.1	1215.8	564.3	589.7	742.3	875.5	891.2	896.1	914.2	921.5
75°	3474.1	2748.7	656.3	444.4	484.4	634.5	748.4	766.5	775.0	796.7	799.2
77.5°	1651.7	1190.3	374.1	346.3	389.9	518.2	632.1	652.7	629.7	641.8	632.1
80°	558.2	442.0	236.2	263.9	297.9	404.5	506.1	526.7	478.3	475.9	471.1
82.5°	195.0	179.2	150.2	175.6	192.5	289.5	382.6	409.3	356.0	354.8	337.8
85°	76.3	72.7	83.5	95.6	115.0	178.0	251.8	265.2	219.1	176.8	174.4
87.5°	15.8	16.9	20.6	21.8	35.2	61.8	90.8	111.4	88.4	75.0	69.0
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)