

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: P964592

Luminaire Tested: **NAV-SB3C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964592
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-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 24154.1 lumens
Efficiency: N/A
Efficacy: 162.0 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



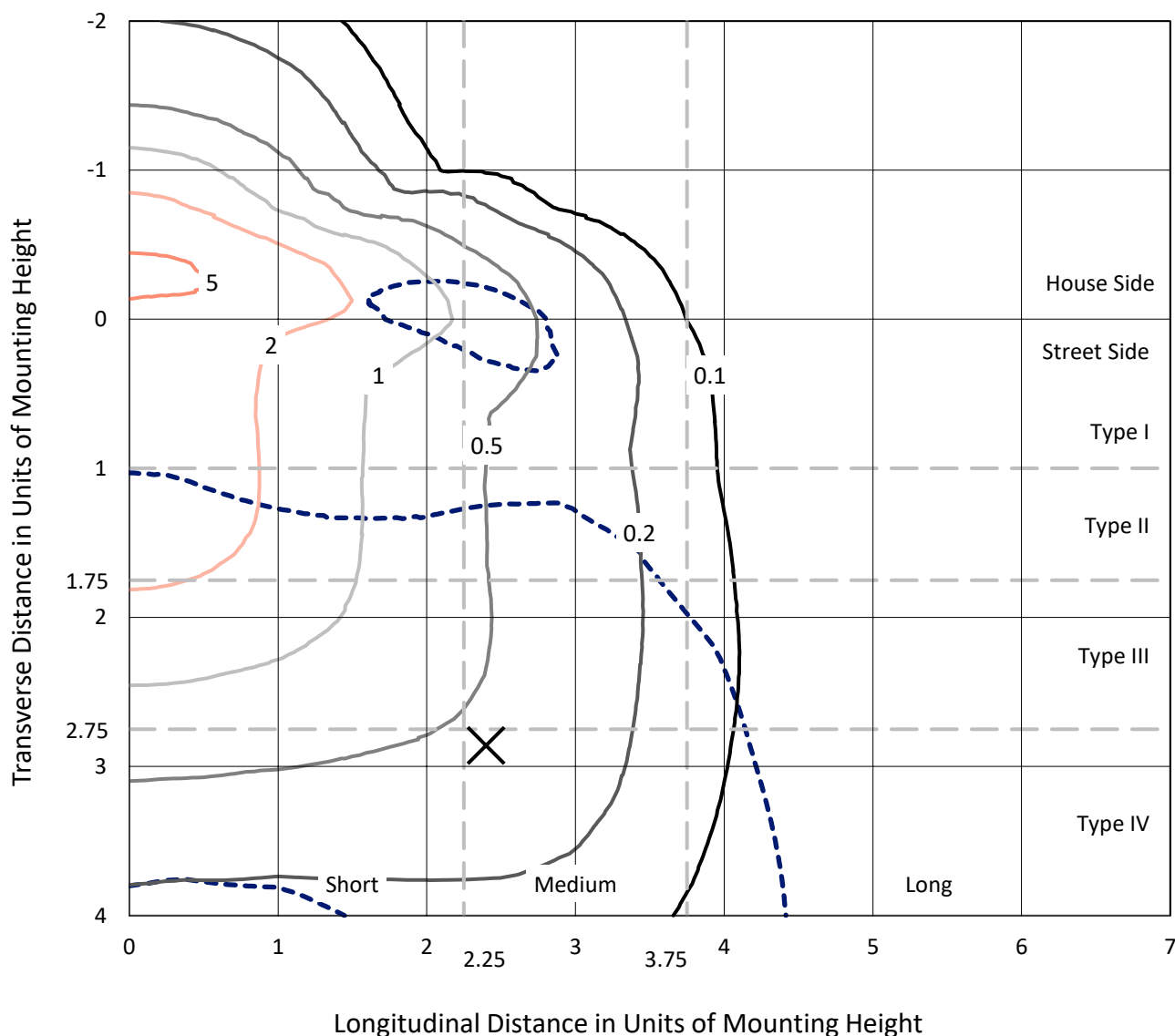
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

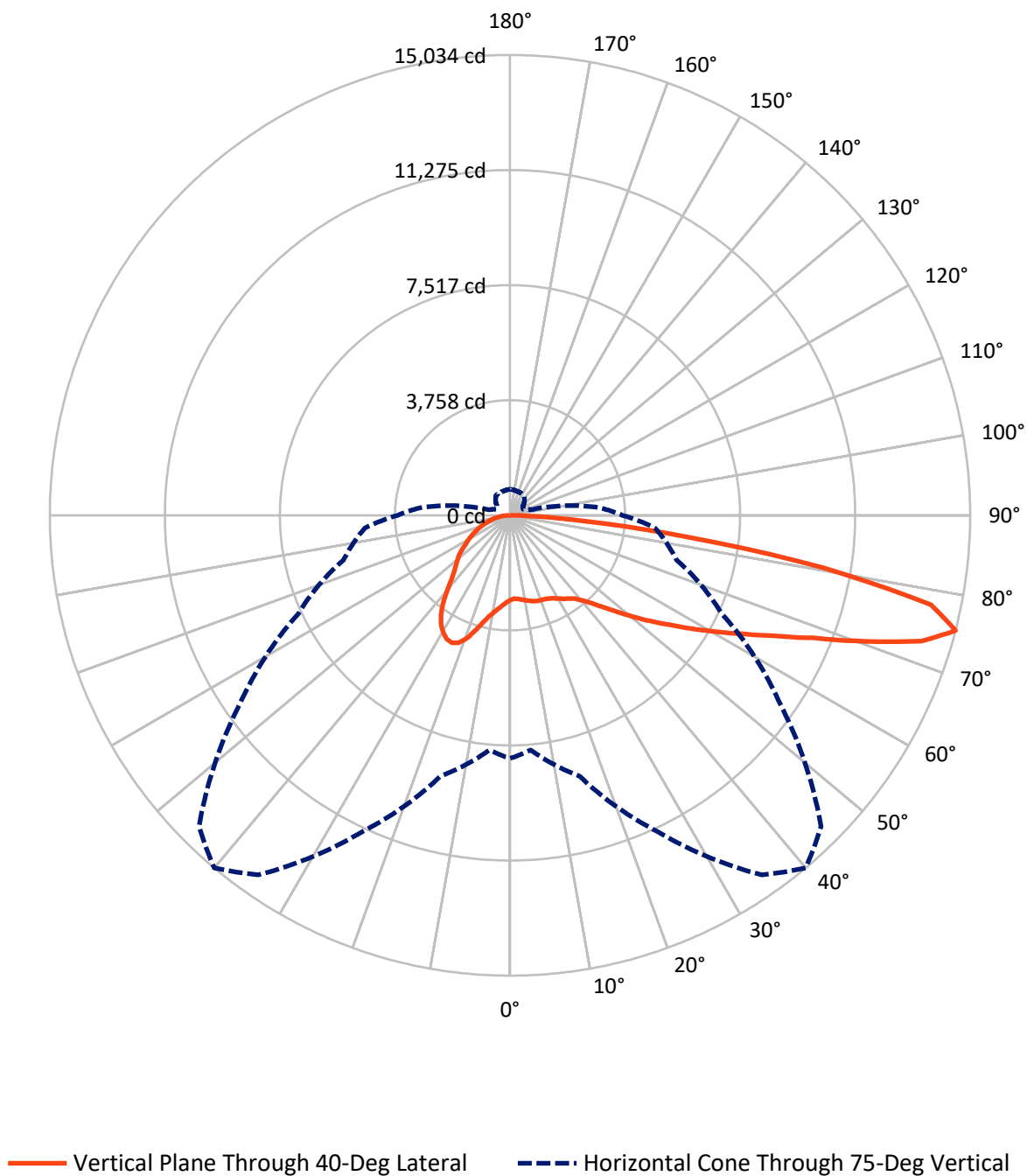


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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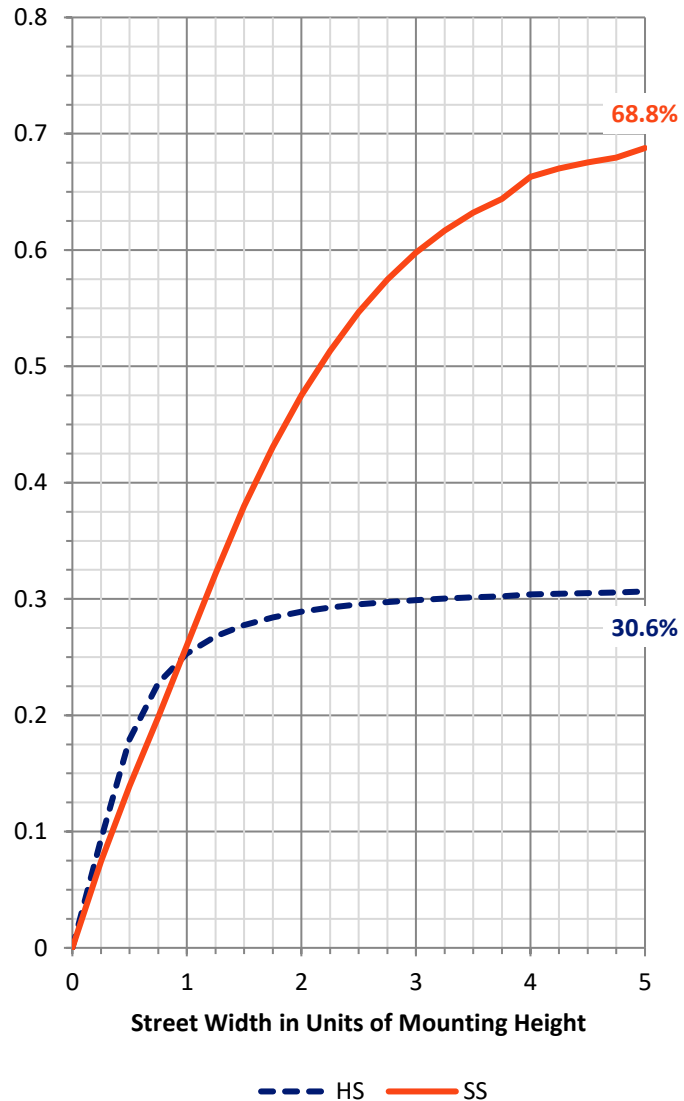
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7483.7	0.0	7483.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16670.4	0.0	16670.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	24154.1	0.0	24154.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.1
10°-20°	925.7	3.8
20°-30°	1690.2	7.0
30°-40°	2397.2	9.9
40°-50°	3236.9	13.4
50°-60°	4354.5	18.0
60°-70°	5526.9	22.9
70°-80°	5016.0	20.8
80°-90°	731.2	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°	24154.1	100.0
0°-180°	24154.1	100.0

Coefficient of Utilization



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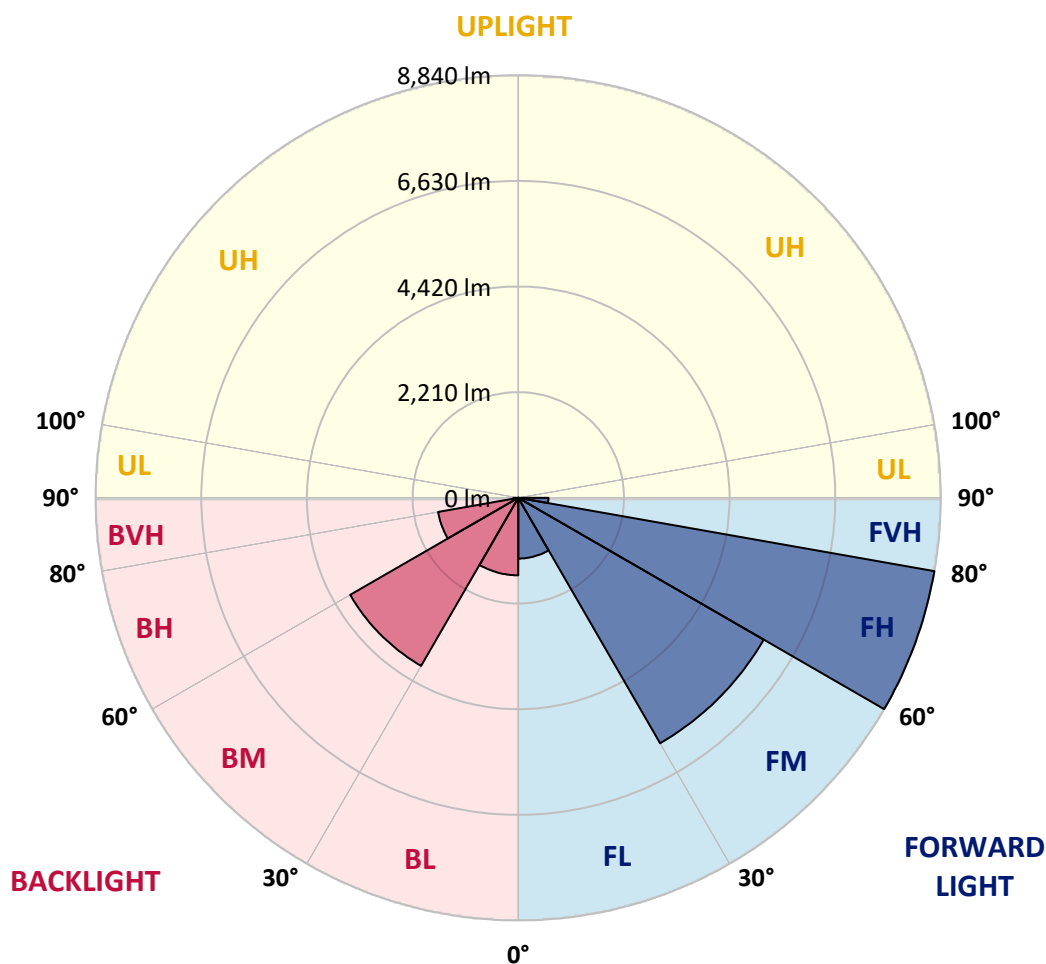
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.5	5.3			
FM	(30°-60°)	5929.3	24.5			
FH	(60°-80°)	8840.0	36.6			G4/12000
FVH	(80°-90°)	630.5	2.6			G4/750
BL	(0°-30°)	1621.0	6.7	B3/2500		
BM	(30°-60°)	4059.3	16.8	B3/5000		
BH	(60°-80°)	1702.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	100.7	0.4			G2/225
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°	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1
2.5°	2719.7	2735.1	2731.3	2726.2	2726.2	2727.4	2726.2	2735.1	2744.1	2753.0	2767.2
5°	2747.9	2763.3	2755.6	2749.3	2744.1	2742.8	2739.0	2737.7	2742.8	2754.4	2773.5
7.5°	2803.1	2818.4	2806.9	2795.4	2785.1	2780.0	2774.9	2767.2	2763.3	2769.8	2796.6
10°	2864.6	2879.9	2865.8	2845.3	2828.7	2822.2	2817.1	2809.4	2804.3	2808.2	2837.6
12.5°	2926.1	2941.4	2922.2	2894.0	2872.3	2868.4	2862.0	2859.4	2858.1	2856.9	2886.3
15°	2983.7	2996.5	2972.2	2938.9	2915.8	2909.4	2903.0	2906.8	2913.3	2920.9	2954.3
17.5°	3028.6	3041.4	3005.5	2961.9	2940.1	2937.5	2933.8	2946.6	2964.5	2983.7	3024.7
20°	3069.6	3082.4	3036.3	2977.3	2951.7	2951.7	2952.9	2979.9	3005.5	3033.7	3090.1
22.5°	3127.2	3137.4	3081.0	3000.4	2963.2	2965.7	2976.0	3002.9	3034.9	3073.4	3151.5
25°	3213.0	3220.7	3151.5	3043.9	3001.6	3009.3	3018.3	3031.1	3061.9	3106.7	3211.7
27.5°	3351.3	3357.8	3266.8	3120.7	3056.8	3069.6	3082.4	3073.4	3087.5	3125.8	3260.4
30°	3546.1	3550.0	3434.7	3241.2	3150.2	3156.6	3159.2	3122.0	3095.2	3125.8	3295.0
32.5°	3776.7	3775.4	3638.3	3387.2	3256.5	3250.2	3228.3	3155.4	3092.6	3119.5	3325.7
35°	4134.1	4120.0	3943.3	3592.2	3377.0	3337.3	3286.0	3192.5	3105.4	3113.0	3352.7
37.5°	4726.0	4682.4	4437.7	3927.9	3556.3	3455.2	3379.5	3252.7	3133.5	3110.5	3384.7
40°	5393.4	5338.3	5069.3	4387.8	3825.4	3662.6	3541.0	3338.5	3179.7	3122.0	3432.1
42.5°	6185.2	6107.1	5817.5	4929.6	4166.1	3930.5	3747.2	3447.5	3247.6	3159.2	3496.2
45°	7157.5	7053.7	6643.8	5540.7	4595.3	4281.4	4036.8	3612.7	3351.3	3230.9	3592.2
47.5°	8140.1	8165.8	7582.8	6240.2	5110.3	4714.5	4399.3	3861.3	3502.5	3346.2	3747.2
50°	9184.2	9202.1	8516.7	7015.3	5694.5	5203.8	4806.7	4139.3	3712.7	3510.2	3979.2
52.5°	9999.0	10001.5	9364.8	7826.3	6303.0	5741.9	5246.2	4456.9	3956.1	3728.0	4287.9
55°	10508.9	10502.5	9959.3	8593.6	7002.5	6306.8	5732.9	4818.2	4253.2	3984.3	4676.0
57.5°	10879.1	10859.9	10369.2	9253.4	7748.1	6974.3	6283.8	5228.2	4604.3	4289.1	5187.2
60°	11020.1	11008.5	10647.3	9823.5	8532.1	7712.2	6919.3	5686.8	5002.7	4649.1	5844.3
62.5°	11073.9	11095.6	10920.1	10375.7	9371.3	8529.5	7617.4	6235.1	5451.1	5056.5	6537.4
65°	11263.4	11303.2	11267.3	11098.2	10319.3	9486.6	8543.7	6887.2	5940.5	5493.4	7261.3
67.5°	11638.8	11678.5	11693.9	11963.0	11477.4	10679.3	9699.3	7699.4	6513.2	5946.8	7805.8
70°	11629.9	11618.3	11889.9	12650.9	12927.6	12330.6	11257.1	8698.7	7195.9	6323.5	7875.0
72.5°	10585.8	10493.5	11135.3	12643.2	14134.4	14055.0	13159.5	9987.5	7785.3	6369.7	6833.4
75°	7941.6	7695.6	8829.3	11394.1	14335.5	15033.8	14368.9	10786.9	7645.6	5627.9	4755.5
77.5°	3396.2	3148.9	4485.1	8434.8	12830.2	14053.7	13259.4	9410.9	6103.2	3721.6	2335.5
80°	889.1	887.9	1355.4	3824.1	8725.6	10378.2	9104.8	6077.5	3487.2	1329.8	644.4
82.5°	367.7	358.7	498.4	1487.4	4263.5	5823.8	4752.9	2710.8	1259.3	360.0	213.9
85°	137.0	135.8	242.1	513.7	1504.0	2402.1	1738.5	693.1	313.9	175.5	96.0
87.5°	38.4	37.1	52.5	178.0	366.4	556.0	297.2	114.0	88.4	69.2	28.2
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°	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1
2.5°	2771.0	2777.4	2788.9	2797.9	2809.4	2822.2	2840.2	2851.8	2863.2	2870.9	2865.8
5°	2782.6	2796.6	2826.1	2855.5	2890.2	2922.2	2959.4	2986.2	3008.1	3014.4	3017.0
7.5°	2808.2	2831.3	2881.2	2931.2	2986.2	3038.8	3092.6	3138.7	3175.9	3189.9	3191.2
10°	2853.0	2883.7	2954.3	3024.7	3097.8	3178.4	3247.6	3314.2	3366.7	3388.5	3389.8
12.5°	2909.4	2947.8	3040.0	3137.4	3238.6	3350.1	3439.8	3521.8	3587.1	3616.5	3616.5
15°	2982.4	3032.4	3150.2	3280.9	3429.5	3584.5	3698.5	3789.5	3862.5	3898.4	3895.8
17.5°	3061.9	3128.4	3277.0	3474.3	3687.0	3890.7	4023.9	4090.6	4166.1	4200.8	4199.4
20°	3138.7	3220.7	3433.3	3720.3	4003.4	4219.9	4327.5	4345.5	4350.6	4354.5	4364.8
22.5°	3218.1	3328.3	3629.3	4030.3	4334.0	4483.9	4499.2	4422.4	4314.7	4264.8	4278.9
25°	3305.2	3451.3	3885.6	4372.4	4618.3	4636.3	4518.4	4331.4	4127.7	4034.2	4048.2
27.5°	3389.8	3593.4	4193.1	4699.1	4823.3	4665.8	4412.1	4146.9	3900.9	3802.3	3813.8
30°	3474.3	3756.2	4532.5	4984.8	4916.8	4592.7	4244.3	3948.4	3701.1	3597.3	3608.8
32.5°	3560.1	3945.8	4923.3	5191.0	4900.2	4437.7	4035.4	3725.5	3507.7	3398.8	3412.8
35°	3657.5	4178.9	5293.5	5303.8	4788.8	4209.7	3760.0	3459.0	3269.3	3182.2	3201.5
37.5°	3784.4	4474.8	5620.2	5331.9	4594.0	3875.3	3418.0	3143.8	2987.6	2947.8	2976.0
40°	3941.9	4831.0	5870.0	5287.2	4305.8	3469.2	3043.9	2824.8	2736.4	2745.4	2776.1
42.5°	4146.9	5229.4	6045.6	5171.8	3904.8	3050.3	2715.9	2618.6	2660.9	2696.7	2730.0
45°	4413.4	5643.2	6154.4	4975.8	3451.3	2695.4	2522.5	2545.6	2577.6	2581.5	2607.1
47.5°	4754.2	6062.2	6226.2	4679.8	2988.8	2445.6	2399.5	2404.6	2398.2	2371.3	2391.8
50°	5179.5	6469.6	6290.2	4287.9	2595.5	2289.3	2227.8	2209.9	2121.5	2034.4	2045.9
52.5°	5663.7	6843.6	6317.1	3801.0	2289.3	2158.6	2058.7	1946.0	1780.7	1753.9	1762.8
55°	6201.9	7189.6	6247.9	3202.7	2031.9	1990.9	1839.7	1703.9	1685.9	1662.9	1666.8
57.5°	6845.0	7562.3	6107.1	2535.3	1767.9	1794.8	1647.5	1662.9	1630.9	1595.0	1588.5
60°	7548.3	7948.0	5859.7	1926.8	1495.1	1550.1	1597.6	1596.2	1587.3	1557.8	1547.5
62.5°	8181.1	8201.6	5372.9	1475.8	1255.5	1360.5	1489.9	1488.6	1480.9	1464.3	1457.9
65°	8557.7	8163.2	4560.7	1161.9	1058.2	1204.3	1343.9	1354.1	1355.4	1354.1	1354.1
67.5°	8491.1	7713.5	3446.2	925.0	895.4	1045.4	1199.1	1213.2	1223.4	1226.0	1228.6
70°	7737.8	6725.7	2247.0	737.9	750.7	905.7	1062.0	1076.1	1085.1	1095.3	1100.4
72.5°	6031.4	4945.0	1286.3	597.0	623.9	785.4	926.2	942.9	948.0	967.2	974.9
75°	3675.4	2908.1	694.3	470.2	512.4	671.3	791.7	811.0	819.9	843.0	845.5
77.5°	1747.4	1259.3	395.9	366.4	412.6	548.3	668.7	690.5	666.1	679.0	668.7
80°	590.6	467.6	249.8	279.3	315.2	427.9	535.5	557.3	506.0	503.5	498.4
82.5°	206.2	189.6	158.9	185.7	203.7	306.2	404.9	433.1	376.7	375.4	357.4
85°	80.7	76.9	88.4	101.2	121.7	188.3	266.5	280.5	231.9	187.1	184.5
87.5°	16.6	17.9	21.7	23.1	37.1	65.3	96.0	117.9	93.5	79.4	73.0
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)