

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: P963565

Luminaire Tested: **NAV-SB3A-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-750-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14506.8 lumens
Efficiency: N/A
Efficacy: 171.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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

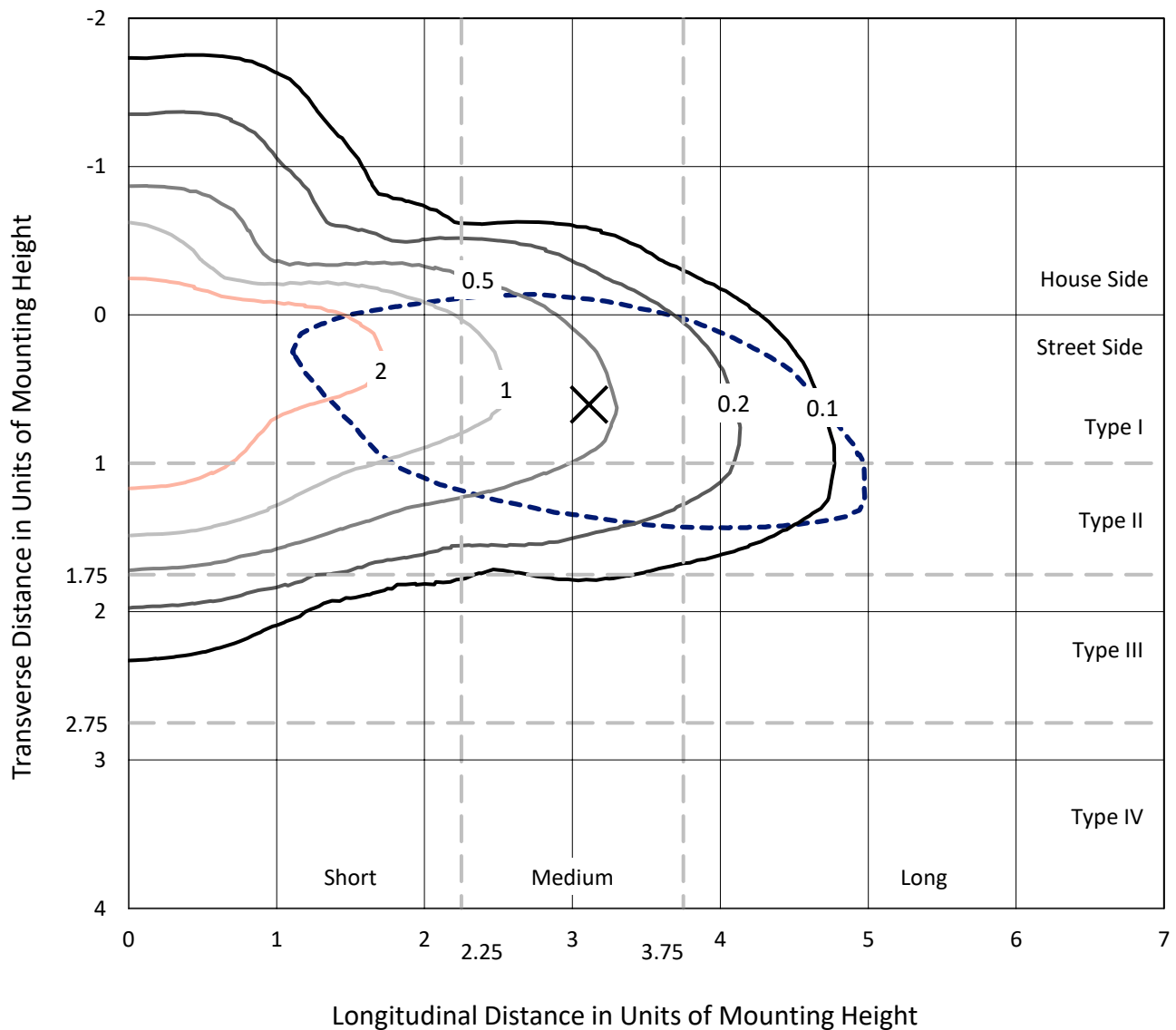


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Iso-Footcandle Lines of Horizontal Illumination

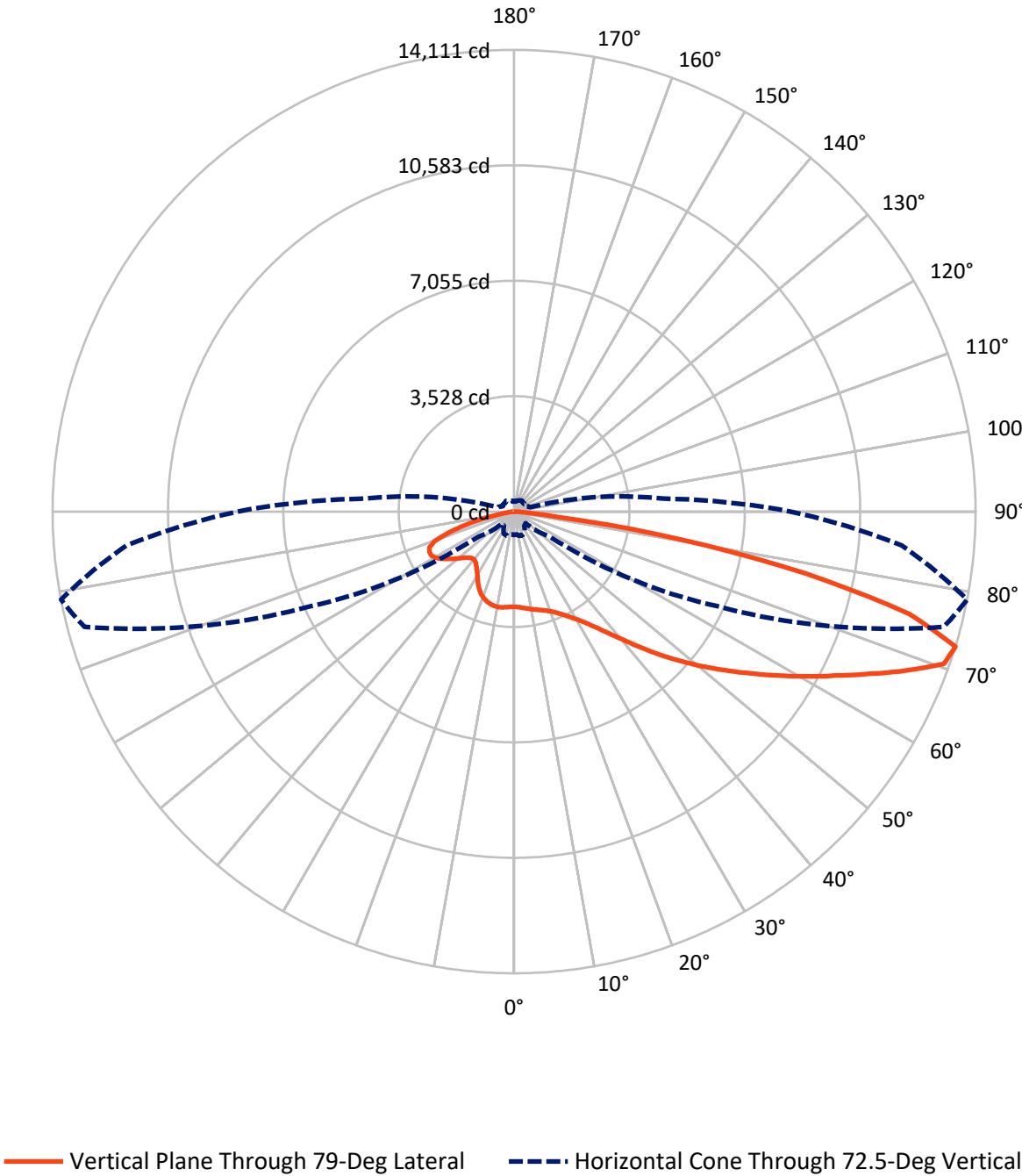
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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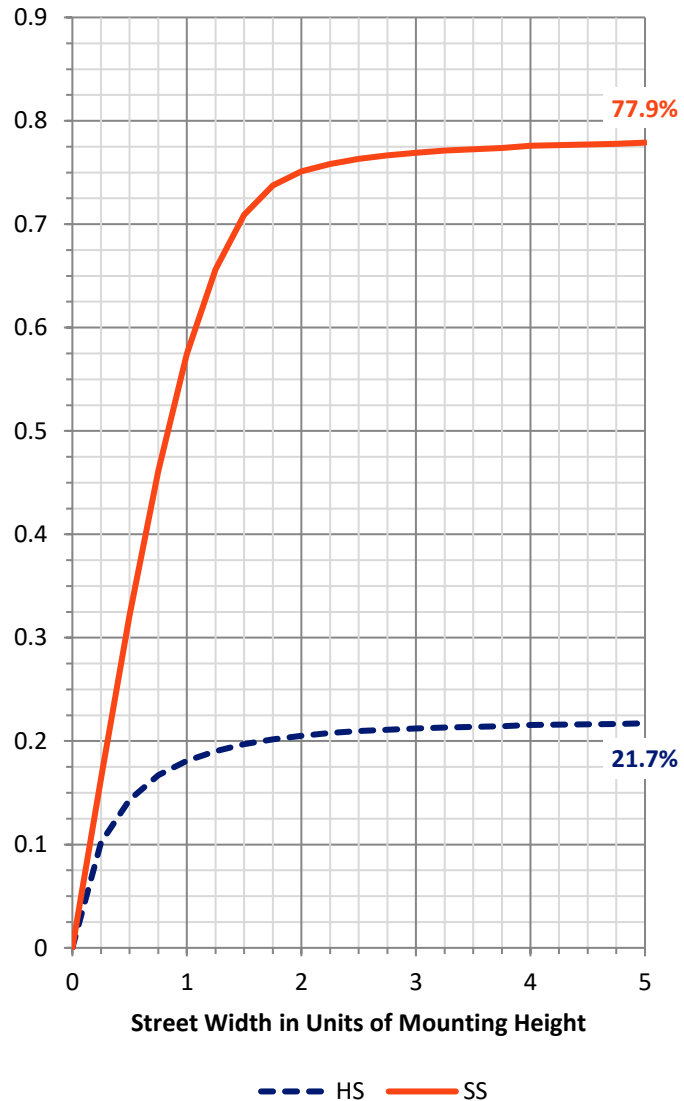
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3192.3	0.0	3192.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11314.5	0.0	11314.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	14506.8	0.0	14506.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	1.8
10°-20°	691.1	4.8
20°-30°	1115.2	7.7
30°-40°	1673.7	11.5
40°-50°	2374.2	16.4
50°-60°	2998.3	20.7
60°-70°	3045.2	21.0
70°-80°	2075.4	14.3
80°-90°	269.3	1.9
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°	14506.8	100.0
0°-180°	14506.8	100.0

Coefficient of Utilization



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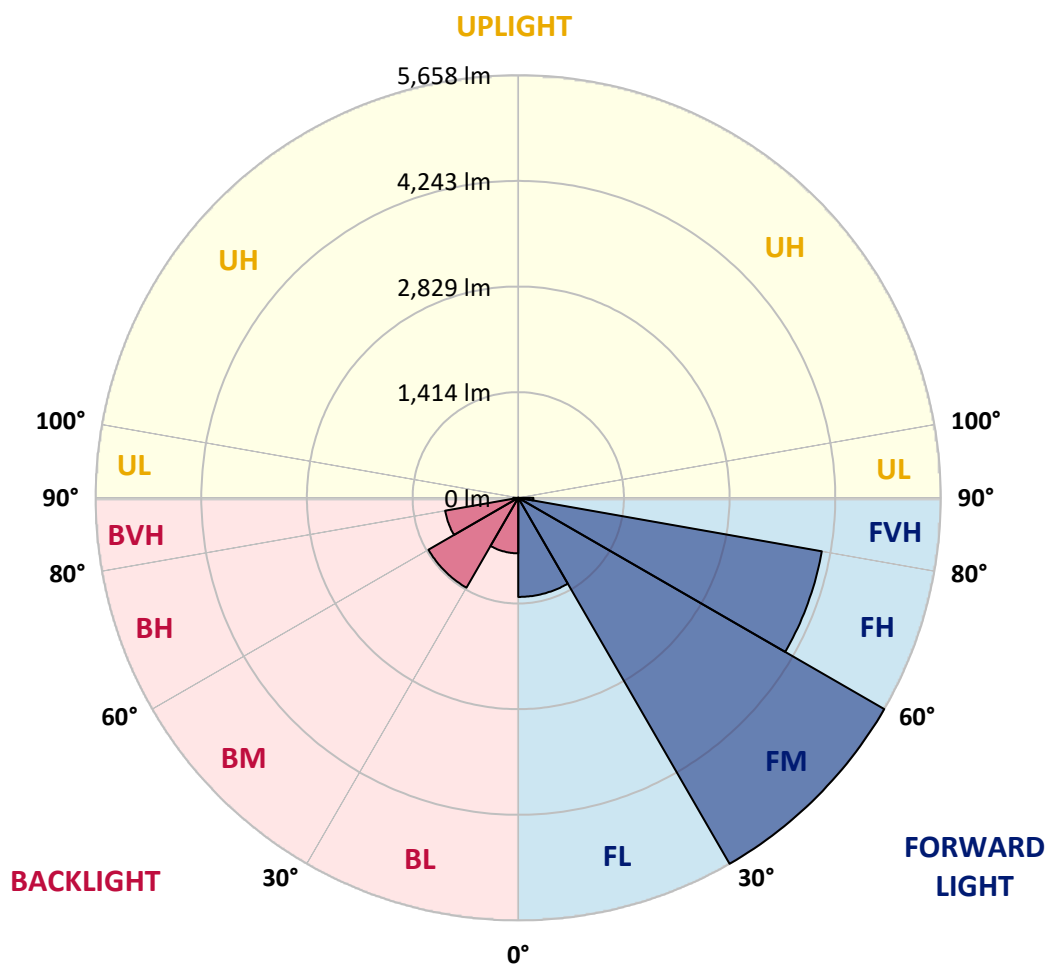
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.0	9.1			
FM	(30°-60°)	5658.0	39.0			
FH	(60°-80°)	4126.7	28.4			G2/5000
FVH	(80°-90°)	202.8	1.4			G2/225
BL	(0°-30°)	743.6	5.1	B2/1000		
BM	(30°-60°)	1388.3	9.6	B2/2500		
BH	(60°-80°)	994.0	6.9	B2/1000		G2/1000
BVH	(80°-90°)	66.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2913.7	2899.8	2908.2	2905.2	2909.1	2913.7	2915.2	2917.5	2925.1	2924.4	2923.6
5°	2907.5	2893.7	2905.2	2901.4	2911.3	2922.1	2931.3	2939.7	2952.0	2957.3	2949.7
7.5°	2894.5	2885.3	2896.8	2908.2	2926.7	2942.8	2955.9	2975.1	2992.7	2995.8	3001.1
10°	2818.4	2811.6	2838.4	2868.4	2919.0	2962.8	2991.2	3013.4	3032.6	3035.6	3043.3
12.5°	2739.4	2731.0	2760.9	2801.6	2883.7	2962.8	3022.6	3051.7	3068.6	3078.6	3090.2
15°	2726.4	2719.5	2736.3	2771.7	2840.0	2942.1	3044.0	3097.9	3112.4	3123.9	3128.5
17.5°	2789.3	2776.3	2783.2	2795.5	2835.4	2922.9	3061.0	3150.0	3172.3	3184.5	3184.5
20°	2935.1	2916.7	2906.0	2881.4	2874.5	2926.0	3059.4	3212.9	3242.1	3257.4	3261.2
22.5°	3129.2	3117.0	3094.0	3031.8	2964.3	2963.5	3088.6	3293.5	3348.0	3362.5	3353.3
25°	3364.0	3345.7	3316.5	3232.1	3102.4	3038.0	3137.7	3396.3	3487.7	3491.5	3464.6
27.5°	3634.1	3606.6	3566.7	3455.4	3280.4	3154.5	3212.9	3514.5	3648.0	3646.4	3591.2
30°	3918.9	3891.2	3849.1	3714.0	3493.7	3311.9	3317.3	3641.8	3838.3	3829.9	3735.5
32.5°	4126.9	4106.2	4097.6	3993.3	3739.3	3497.6	3436.9	3783.1	4073.1	4065.5	3933.4
35°	4286.4	4259.6	4269.5	4216.6	4007.1	3705.6	3583.5	3951.1	4358.6	4357.8	4193.6
37.5°	4444.5	4420.7	4429.1	4393.9	4255.0	3969.5	3762.4	4156.8	4712.3	4729.2	4508.2
40°	4588.8	4563.4	4597.2	4564.2	4447.6	4250.4	3965.7	4389.3	5122.1	5154.3	4888.8
42.5°	4675.4	4655.5	4711.5	4712.3	4614.9	4487.4	4189.0	4645.6	5596.3	5668.5	5356.9
45°	4705.4	4698.5	4783.0	4800.6	4763.0	4624.8	4390.1	4924.9	6107.4	6236.3	5890.2
47.5°	4673.2	4660.2	4776.8	4842.0	4871.9	4689.3	4556.5	5227.2	6629.2	6817.9	6471.8
50°	4510.5	4485.2	4658.6	4796.0	4902.6	4731.5	4724.6	5576.4	7222.4	7428.8	7056.6
52.5°	4218.2	4198.9	4396.1	4634.8	4835.1	4752.2	4913.3	5957.7	7785.6	8052.6	7655.9
55°	3844.5	3819.2	4036.2	4347.8	4667.0	4745.3	5102.1	6384.4	8450.1	8721.0	8275.1
57.5°	3252.0	3201.4	3476.1	3844.5	4393.2	4736.8	5298.5	6808.8	9125.4	9450.0	8935.8
60°	2388.0	2312.8	2649.6	3086.3	3857.5	4654.7	5541.9	7284.5	9935.7	10228.1	9657.1
62.5°	1390.4	1346.7	1566.9	1974.4	2907.5	4171.3	5678.4	7837.8	10732.2	11039.1	10366.1
65°	1079.6	1067.4	1086.6	1118.1	1618.4	3123.2	5257.1	8377.2	11745.1	11960.0	11105.2
67.5°	987.6	978.4	986.8	927.7	821.0	1739.6	4159.0	8513.8	12830.1	12960.6	11752.0
70°	877.8	867.2	894.7	844.1	646.2	791.1	2687.2	8018.1	13693.4	13938.3	12243.9
72.5°	715.1	702.9	767.3	744.4	544.1	508.0	1349.8	6840.2	13602.9	14110.9	11891.6
75°	549.4	542.5	619.3	638.5	443.5	399.7	647.7	5084.5	11970.7	12482.6	10248.8
77.5°	426.6	421.3	460.4	530.2	357.6	310.0	398.2	3225.2	9021.0	9110.8	7062.8
80°	320.0	304.6	340.7	410.5	278.6	226.3	270.1	1880.8	5702.2	5168.9	3074.0
82.5°	200.3	192.6	222.5	274.0	196.5	155.8	175.7	1039.0	2285.1	1345.9	593.2
85°	114.3	111.3	121.3	156.5	106.7	89.8	100.6	458.9	417.5	287.0	178.8
87.5°	46.0	44.5	55.2	69.8	39.2	33.0	35.3	110.5	92.0	85.2	59.0
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°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2920.5	2920.5	2909.8	2893.0	2873.7	2861.5	2841.5	2836.2	2815.5	2809.3	2819.3
5°	2955.9	2949.7	2916.7	2869.2	2803.9	2744.0	2678.0	2636.6	2578.3	2557.6	2573.0
7.5°	3000.4	2983.5	2926.7	2822.3	2685.7	2551.4	2411.8	2305.9	2204.6	2168.6	2173.1
10°	3041.1	3017.2	2920.5	2737.9	2501.6	2269.0	2046.5	1890.7	1772.6	1724.3	1735.0
12.5°	3081.7	3038.0	2879.8	2597.5	2239.9	1924.5	1687.5	1566.2	1493.2	1435.0	1454.2
15°	3120.1	3058.7	2816.9	2409.5	1952.9	1632.9	1458.0	1361.3	1303.0	1264.6	1271.5
17.5°	3164.6	3076.3	2722.6	2170.8	1679.8	1431.1	1288.4	1230.1	1218.5	1213.9	1217.0
20°	3226.7	3092.4	2598.3	1903.8	1478.7	1270.0	1196.3	1190.9	1190.1	1187.9	1195.6
22.5°	3293.5	3111.6	2434.1	1661.3	1307.6	1169.4	1156.4	1145.6	1138.8	1138.0	1146.5
25°	3372.6	3117.7	2228.4	1462.6	1161.7	1121.9	1106.5	1090.4	1085.8	1085.8	1090.4
27.5°	3449.2	3097.0	1989.0	1290.0	1079.6	1078.1	1058.2	1052.8	1052.1	1054.3	1060.5
30°	3526.0	3057.9	1751.1	1130.3	1032.1	1032.1	1025.2	1029.0	1032.1	1039.8	1045.1
32.5°	3629.6	3016.5	1552.4	1012.2	990.7	983.0	989.8	997.5	1000.6	1010.6	1019.1
35°	3781.5	2987.3	1394.3	947.7	947.7	937.7	941.6	940.0	933.1	928.5	939.2
37.5°	3982.5	2985.7	1263.8	917.8	911.6	910.1	910.8	900.9	874.0	841.8	842.6
40°	4224.3	3027.2	1163.3	897.1	892.5	901.6	897.1	870.2	796.5	740.5	738.9
42.5°	4548.8	3145.4	1098.8	871.8	885.5	897.1	878.6	785.8	735.8	698.3	696.8
45°	4931.0	3337.2	1065.9	844.9	872.5	886.3	797.2	756.7	716.7	671.5	668.4
47.5°	5363.8	3578.9	1058.2	819.5	843.4	851.8	762.7	744.4	699.0	650.0	646.2
50°	5834.9	3865.2	1078.9	789.6	801.1	771.9	751.2	734.3	687.6	639.2	633.9
52.5°	6322.2	4180.6	1120.3	749.0	758.9	726.7	746.6	732.1	680.6	615.4	610.8
55°	6801.1	4498.2	1160.2	701.4	716.0	686.0	733.6	722.8	649.1	575.5	571.6
57.5°	7287.5	4814.4	1199.4	659.2	674.6	646.9	712.9	698.3	613.9	538.6	537.1
60°	7793.3	5121.3	1217.8	618.5	629.2	610.8	681.4	656.1	574.0	501.1	498.8
62.5°	8266.7	5376.8	1187.9	577.8	584.8	577.1	640.0	606.2	534.1	458.9	458.1
65°	8741.7	5528.7	1095.8	537.9	539.5	535.6	581.7	552.5	487.3	422.1	417.5
67.5°	9172.2	5613.9	949.3	495.0	491.1	489.5	527.2	494.2	442.0	385.2	380.6
70°	9263.5	5397.5	725.2	444.3	444.3	440.4	467.3	433.6	392.2	346.0	344.5
72.5°	8460.9	4540.4	514.9	386.7	392.9	385.2	407.4	379.0	341.4	310.8	301.6
75°	6822.5	3329.5	374.4	327.7	338.4	325.3	346.0	326.2	293.9	293.2	263.9
77.5°	4687.7	2058.8	271.6	270.1	277.8	260.9	284.6	274.0	244.8	231.8	217.2
80°	2000.5	821.0	197.9	208.7	208.7	193.4	221.0	224.1	198.7	192.6	192.6
82.5°	398.2	233.3	138.9	143.5	135.1	130.5	156.5	173.4	239.4	266.3	267.0
85°	119.7	85.9	83.6	78.3	69.1	69.8	92.0	174.1	214.8	122.8	105.9
87.5°	33.0	21.5	22.2	17.6	14.6	19.2	31.5	132.0	72.2	30.6	26.1
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)