

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: P964571

Luminaire Tested: **NAV-SB3C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23340.3 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



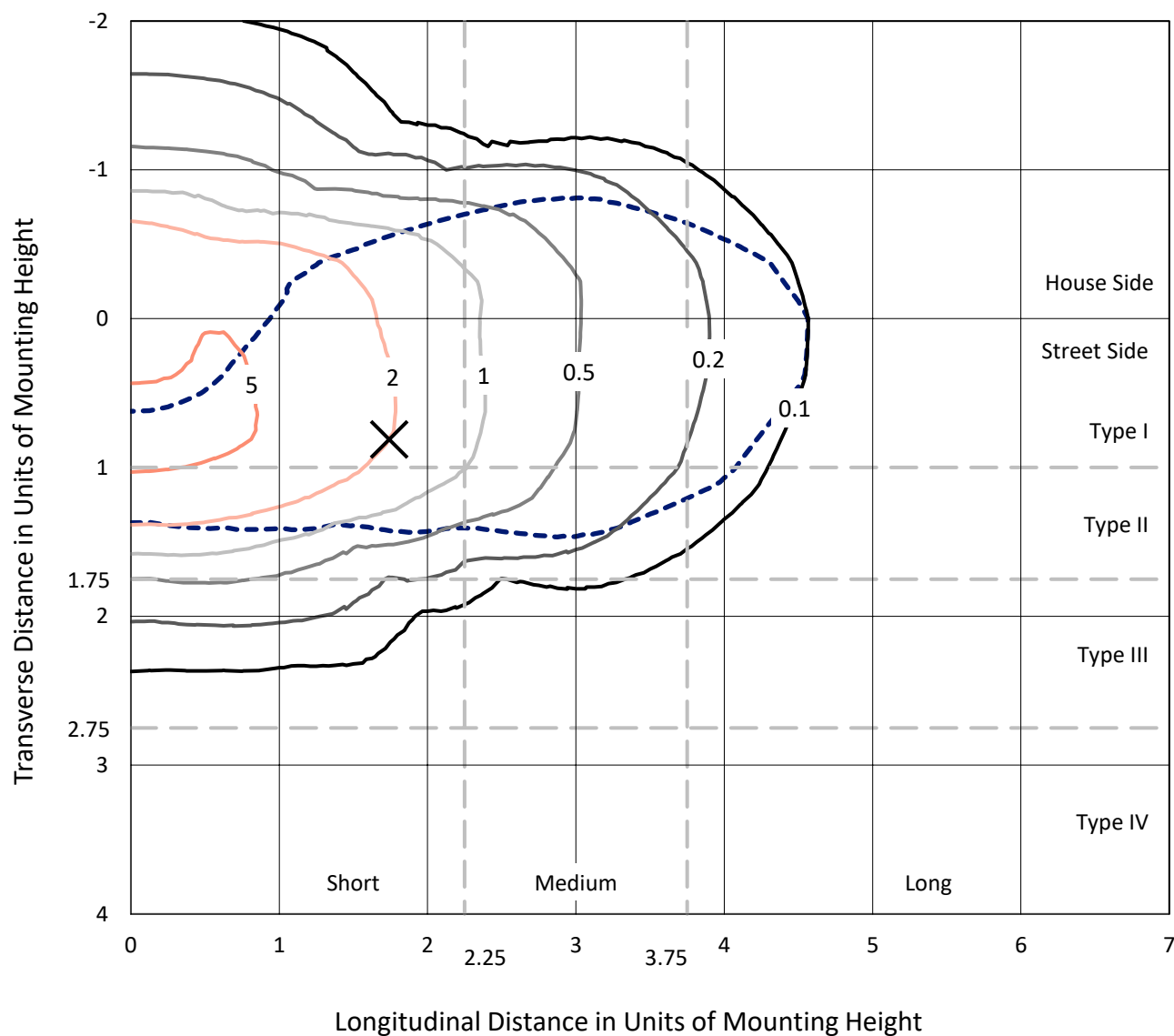
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



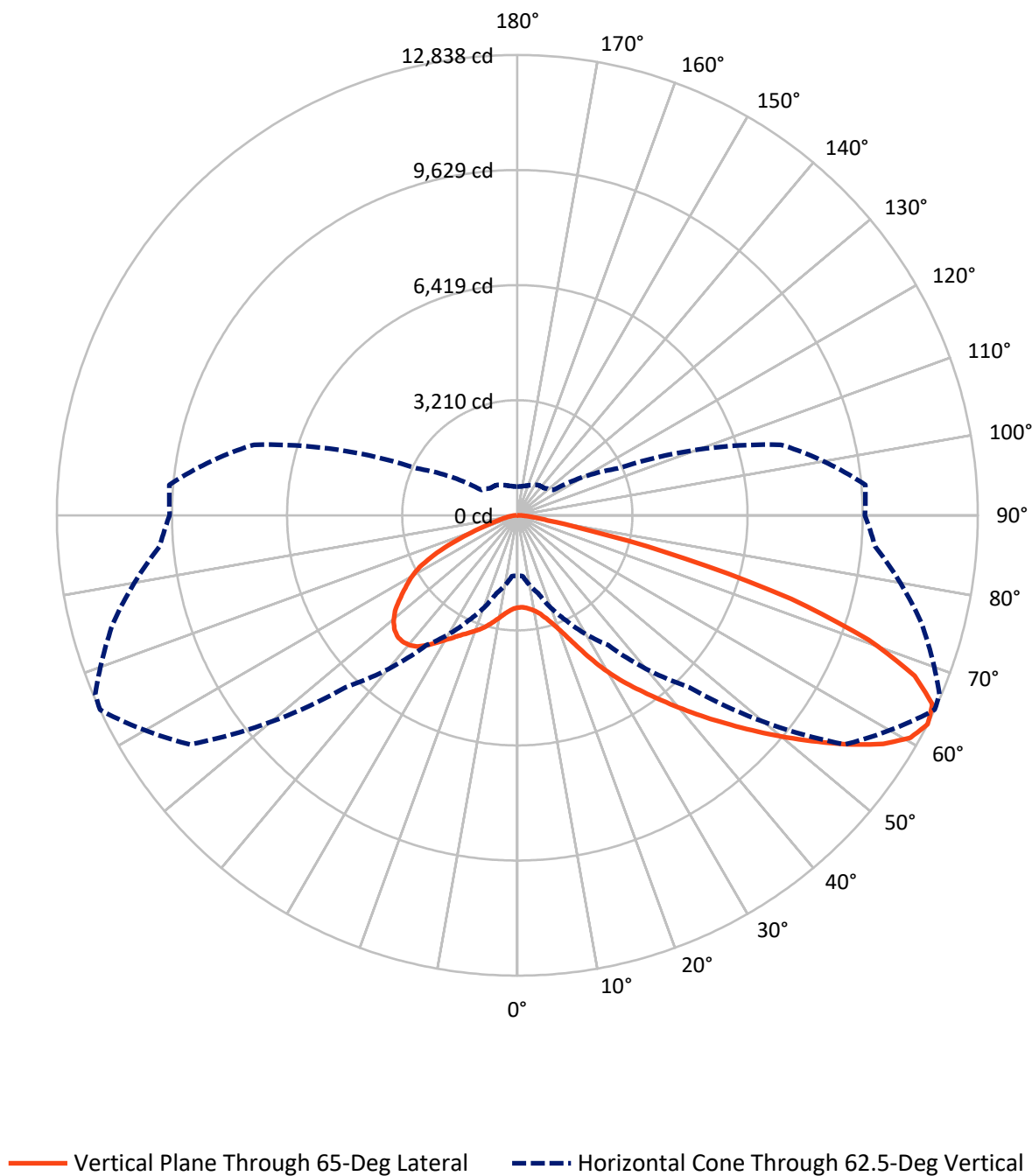
Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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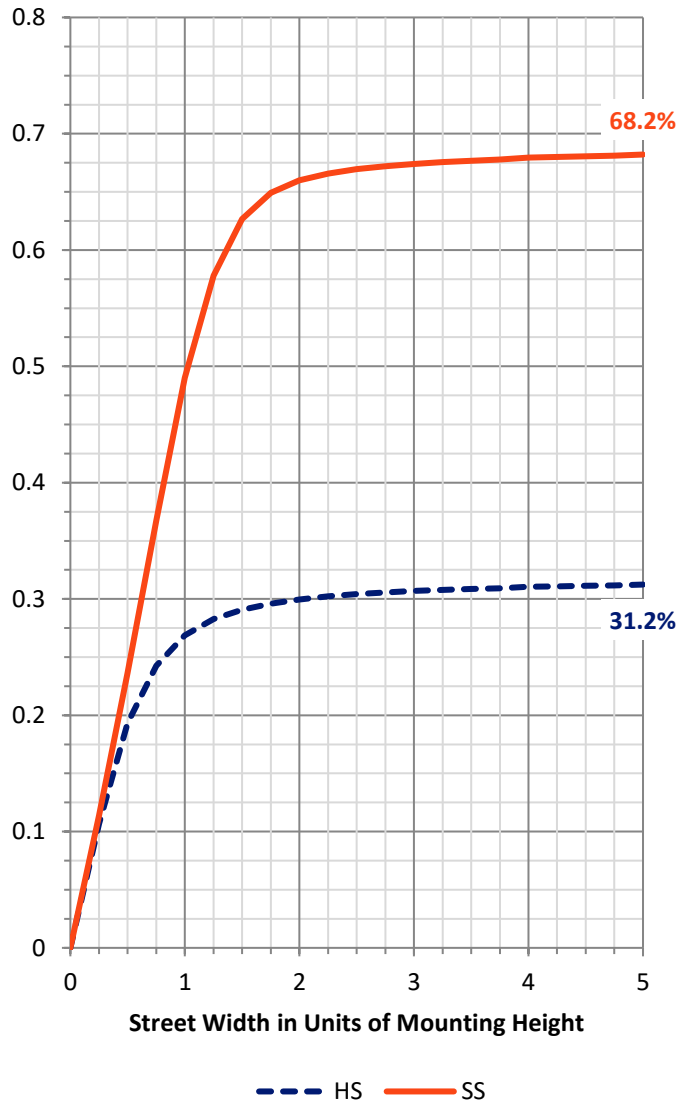
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7365.2	0.0	7365.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15975.1	0.0	15975.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	23340.3	0.0	23340.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.1
10°-20°	869.6	3.7
20°-30°	1763.1	7.6
30°-40°	3051.1	13.1
40°-50°	4617.2	19.8
50°-60°	5413.4	23.2
60°-70°	4538.5	19.4
70°-80°	2505.6	10.7
80°-90°	325.5	1.4
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°	23340.3	100.0
0°-180°	23340.3	100.0

Coefficient of Utilization



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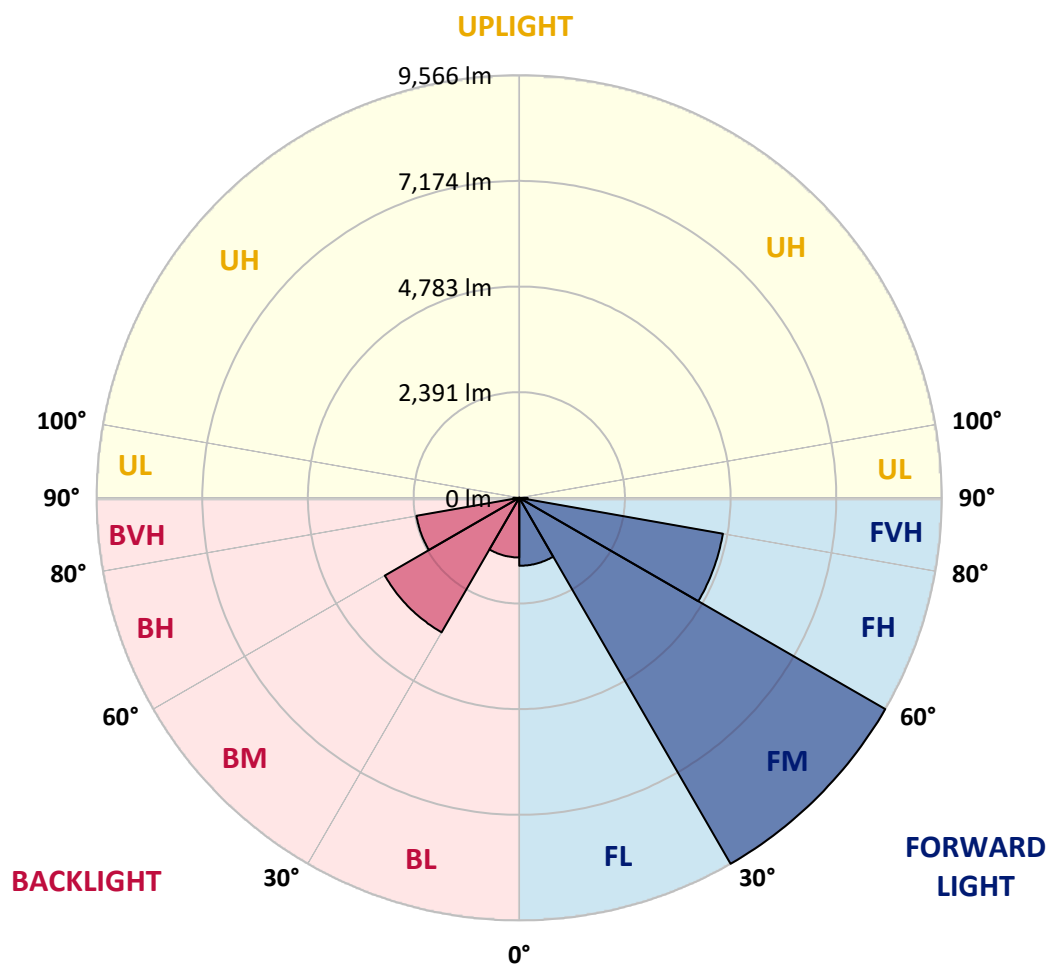
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.4	6.6			
FM	(30°-60°)	9565.6	41.0			
FH	(60°-80°)	4681.4	20.1			G2/5000
FVH	(80°-90°)	189.7	0.8			G2/225
BL	(0°-30°)	1350.7	5.8	B3/2500		
BM	(30°-60°)	3516.0	15.1	B3/5000		
BH	(60°-80°)	2362.7	10.1	B3/2500		G3/2500
BVH	(80°-90°)	135.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0
2.5°	2555.0	2547.7	2553.8	2553.8	2556.2	2555.0	2563.5	2566.0	2569.6	2576.8	2576.8
5°	2529.6	2528.4	2539.3	2549.0	2558.7	2567.1	2578.1	2593.8	2596.2	2604.7	2615.6
7.5°	2521.1	2513.9	2530.8	2542.9	2566.0	2586.5	2615.6	2642.2	2653.1	2656.8	2677.3
10°	2586.5	2574.4	2590.2	2597.5	2616.8	2637.4	2671.3	2713.7	2725.8	2740.3	2763.3
12.5°	2697.9	2684.6	2707.6	2718.5	2736.6	2754.9	2777.9	2819.1	2825.1	2851.8	2873.5
15°	2850.5	2834.7	2849.3	2862.6	2892.9	2909.9	2932.8	2972.8	2972.8	2993.4	3009.1
17.5°	3057.6	3037.0	3047.9	3052.8	3072.1	3097.5	3136.3	3171.5	3189.6	3182.3	3160.5
20°	3366.4	3340.9	3340.9	3316.7	3309.4	3330.0	3380.9	3429.3	3448.7	3411.2	3357.9
22.5°	3830.1	3793.8	3773.2	3690.9	3658.2	3660.6	3711.5	3770.8	3786.6	3719.9	3600.1
25°	4419.9	4362.9	4335.1	4214.0	4140.2	4075.9	4115.9	4192.2	4214.0	4131.7	3937.9
27.5°	5009.6	5013.2	4986.6	4841.3	4719.0	4601.5	4580.9	4660.9	4683.8	4590.6	4350.8
30°	5836.7	5750.7	5699.8	5525.5	5351.0	5186.4	5101.6	5134.3	5140.4	5029.0	4750.5
32.5°	6549.9	6528.1	6419.1	6266.5	6042.5	5784.6	5642.9	5590.9	5581.1	5422.5	5091.9
35°	7362.4	7350.3	7235.3	7053.6	6811.4	6453.0	6197.5	6048.5	6036.4	5813.6	5429.7
37.5°	8188.2	8188.2	8075.7	7877.0	7626.4	7178.4	6789.6	6553.5	6514.8	6224.1	5773.7
40°	8847.0	8807.0	8827.6	8744.1	8457.1	7981.2	7447.1	7104.5	7052.4	6703.7	6139.3
42.5°	9221.2	9207.9	9331.4	9424.6	9307.1	8926.9	8171.3	7701.4	7628.8	7231.6	6560.8
45°	9304.7	9290.2	9510.6	9852.1	10016.7	9860.5	8958.4	8330.0	8241.5	7783.8	7012.4
47.5°	9112.1	9083.1	9406.4	9945.3	10473.2	10748.2	9810.9	9011.7	8883.4	8321.5	7476.2
50°	8533.3	8505.6	8994.7	9710.3	10627.1	11351.2	10736.1	9734.6	9538.4	8897.8	7944.9
52.5°	7275.2	7288.6	8055.1	9038.3	10424.9	11726.5	11532.8	10496.3	10260.1	9487.6	8384.4
55°	5667.1	5696.1	6638.3	7720.8	9615.9	11669.6	12076.6	11280.9	11046.0	10042.1	8838.5
57.5°	4057.8	4186.2	5068.9	6140.6	8062.3	10767.5	12195.1	12026.8	11799.2	10647.6	9282.9
60°	2630.1	2653.1	3561.4	4641.5	6139.3	9164.2	11954.3	12592.3	12414.4	11265.2	9654.7
62.5°	1685.6	1701.3	2254.7	3246.5	4418.7	6780.0	11142.9	12838.2	12783.7	11673.3	10011.9
65°	1238.8	1226.6	1514.8	2145.7	2976.4	4181.3	9567.5	12719.5	12827.3	11928.7	10307.4
67.5°	1034.1	1017.2	1158.9	1485.8	2193.0	2374.6	7079.1	11948.1	12342.9	11899.7	10524.1
70°	942.1	927.5	1013.5	1103.1	1711.0	1590.0	3568.5	10387.2	10995.2	11569.2	10489.0
72.5°	798.0	772.5	890.0	979.6	1330.8	1219.4	1474.9	7978.8	8719.9	10509.6	9995.0
75°	618.8	601.8	702.3	862.1	1000.2	951.8	932.4	4844.9	5653.8	8127.7	8744.1
77.5°	490.5	467.4	559.4	672.1	899.7	718.1	679.4	2086.4	2888.0	5188.8	6542.6
80°	369.3	348.7	425.1	531.6	691.5	541.3	439.5	851.3	1088.7	2628.9	3290.0
82.5°	262.8	244.6	296.6	389.9	465.0	485.5	270.0	477.1	536.5	1013.5	735.0
85°	168.3	157.4	198.5	244.6	295.5	312.4	164.7	249.5	273.7	417.8	306.4
87.5°	92.0	75.0	106.6	113.9	136.8	124.7	78.7	90.8	98.1	151.4	129.6
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°	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0	2572.0
2.5°	2581.7	2585.4	2597.5	2601.0	2609.5	2620.4	2627.7	2635.0	2635.0	2642.2	2642.2
5°	2616.8	2625.2	2650.8	2664.1	2685.8	2707.6	2721.0	2736.6	2746.4	2751.2	2753.7
7.5°	2684.6	2697.9	2734.3	2757.2	2794.8	2825.1	2845.7	2867.4	2872.3	2885.6	2880.8
10°	2776.6	2792.4	2833.5	2877.2	2922.0	2959.5	2978.9	2994.6	3000.7	3003.0	2997.0
12.5°	2882.0	2905.0	2958.3	3011.6	3058.8	3091.5	3096.3	3092.7	3075.7	3061.2	3061.2
15°	3011.6	3032.2	3091.5	3149.6	3195.6	3201.7	3171.5	3152.0	3131.5	3127.8	3127.8
17.5°	3166.5	3177.5	3231.9	3288.8	3292.5	3271.9	3227.1	3209.0	3189.6	3176.3	3177.5
20°	3347.0	3343.3	3382.1	3406.3	3380.9	3317.9	3250.1	3219.8	3200.5	3184.7	3185.9
22.5°	3562.5	3534.7	3529.8	3523.7	3456.0	3324.0	3231.9	3193.2	3162.9	3141.1	3148.4
25°	3876.1	3769.6	3695.7	3654.5	3502.0	3291.3	3173.8	3087.8	3030.9	2993.4	3008.0
27.5°	4268.5	4089.2	3902.8	3802.3	3502.0	3224.6	3033.4	2894.1	2800.8	2762.1	2781.4
30°	4642.6	4455.0	4180.1	3980.3	3493.5	3115.7	2807.0	2613.1	2504.2	2465.4	2488.4
32.5°	4962.3	4757.7	4474.3	4175.2	3472.9	2938.9	2526.0	2311.7	2206.3	2160.3	2183.2
35°	5259.1	5041.1	4769.8	4389.6	3418.5	2679.8	2217.2	2053.7	1936.2	1862.4	1886.6
37.5°	5563.0	5303.9	5049.6	4583.3	3320.4	2377.1	1979.9	1840.6	1702.5	1603.3	1629.9
40°	5893.5	5583.6	5348.7	4698.4	3159.3	2088.8	1795.8	1668.7	1522.1	1416.8	1437.4
42.5°	6279.9	5919.0	5681.7	4757.7	2938.9	1884.2	1675.9	1551.2	1413.2	1327.2	1344.1
45°	6683.1	6288.3	5985.6	4756.5	2693.1	1788.5	1637.1	1513.6	1361.1	1271.5	1286.0
47.5°	7105.7	6674.6	6248.4	4679.0	2480.0	1801.8	1615.4	1432.5	1264.2	1177.0	1189.1
50°	7529.5	7097.2	6502.6	4533.7	2389.2	1772.8	1534.2	1318.7	1120.1	1041.4	1046.2
52.5°	7949.7	7546.5	6721.8	4326.6	2297.1	1665.0	1430.1	1171.0	1060.8	1006.2	1006.2
55°	8372.3	7990.9	6960.4	4025.1	2067.0	1539.0	1255.7	1115.3	1013.5	963.9	959.1
57.5°	8796.1	8504.3	7186.8	3723.6	1777.7	1384.1	1160.1	1047.4	966.3	923.9	916.7
60°	9236.9	9091.6	7420.5	3446.3	1491.9	1185.5	1089.8	992.9	910.6	863.4	859.8
62.5°	9691.0	9738.2	7603.3	3089.0	1229.1	1064.4	1026.8	927.5	847.7	802.9	801.7
65°	10148.7	10361.8	7723.3	2593.8	996.6	949.4	959.1	856.1	775.0	736.3	735.0
67.5°	10493.8	10811.1	7689.3	1962.9	817.3	840.4	874.3	781.0	704.8	674.4	675.7
70°	10532.6	10757.8	7355.1	1344.1	684.2	733.8	779.8	707.1	628.4	606.7	607.9
72.5°	10016.7	10031.3	6424.0	877.9	578.8	644.2	680.5	632.1	555.9	534.0	532.8
75°	8664.1	8296.0	4716.5	578.8	484.4	553.4	587.3	553.4	479.5	484.4	467.4
77.5°	6564.4	5875.4	2863.8	411.7	404.5	465.0	511.0	486.8	423.8	475.9	419.0
80°	3382.1	3178.6	1277.6	307.6	319.7	371.8	420.1	388.7	335.4	319.7	291.8
82.5°	775.0	901.0	503.8	220.4	231.2	267.6	320.9	291.8	241.0	203.5	201.0
85°	271.2	296.6	222.8	138.1	135.6	167.1	217.9	195.0	163.5	130.8	138.1
87.5°	86.0	112.6	83.5	55.7	58.1	75.0	100.6	92.0	76.3	49.6	52.1
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)