

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: McGRAW-EDISON

Report Number: P945946

Luminaire Tested: **GALN-SB1D-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

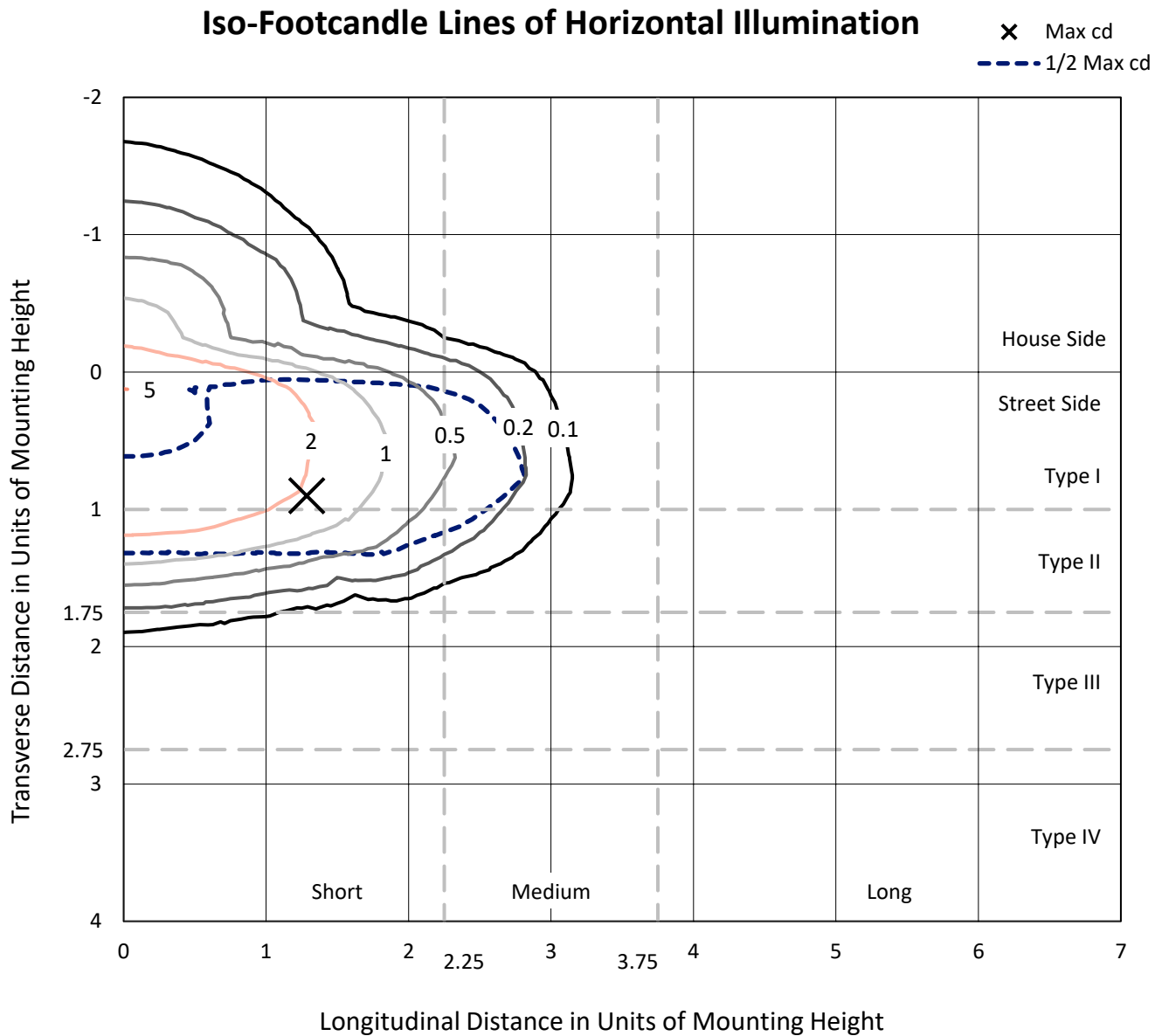
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10353 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 79.6
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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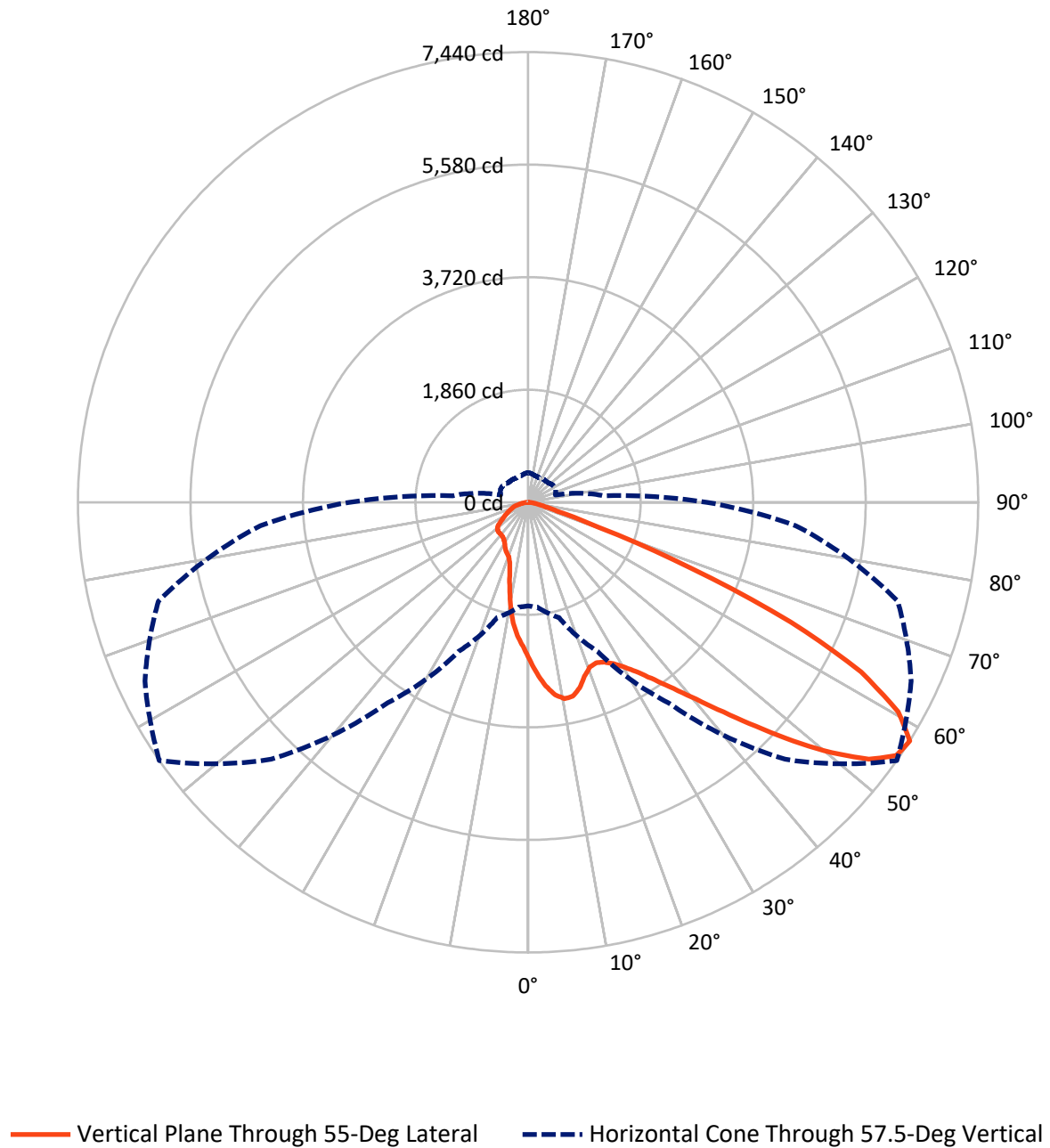


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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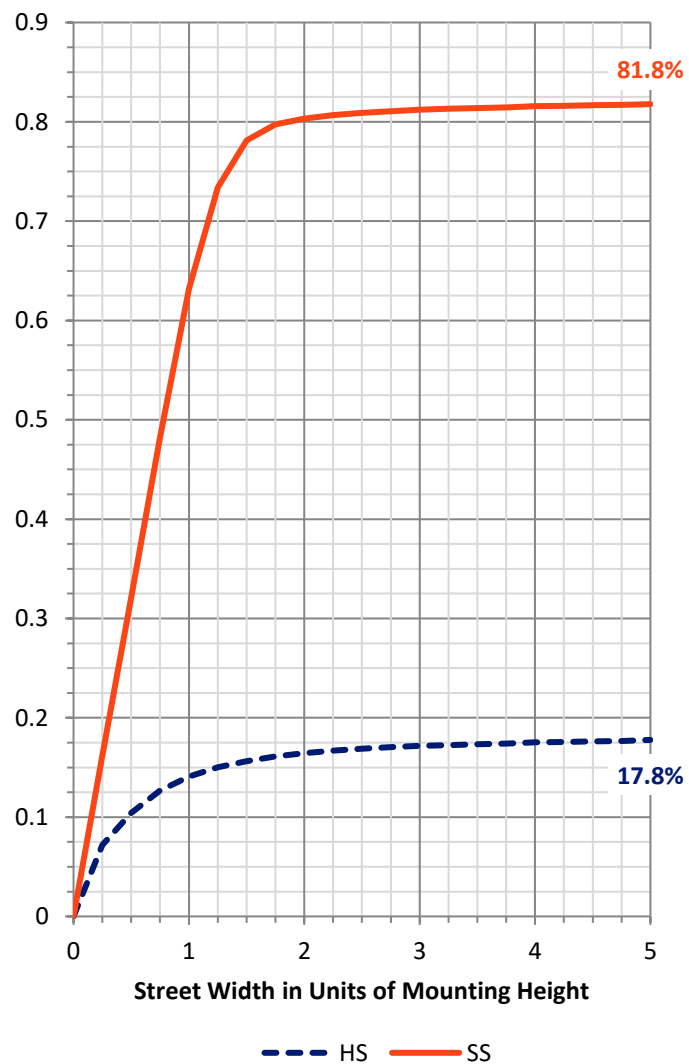
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.3	0.0	1873.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8479.7	0.0	8479.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	10353.0	0.0	10353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	2.3
10°-20°	607.6	5.9
20°-30°	969.5	9.4
30°-40°	1535.0	14.8
40°-50°	2349.5	22.7
50°-60°	2516.5	24.3
60°-70°	1583.2	15.3
70°-80°	468.2	4.5
80°-90°	82.8	0.8
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°	10353.0	100.0
0°-180°	10353.0	100.0

Coefficient of Utilization



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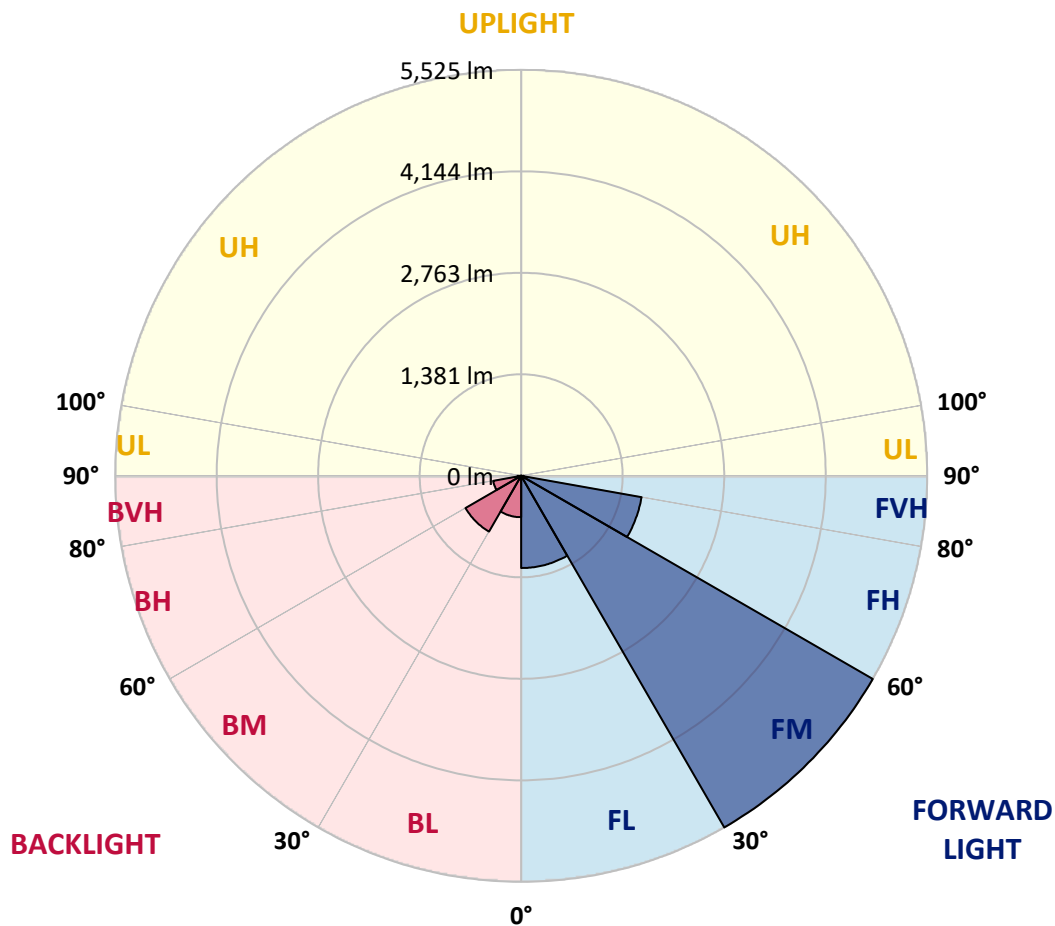
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.8	12.1			
FM	(30°-60°)	5525.5	53.4			
FH	(60°-80°)	1664.4	16.1			G1/1800
FVH	(80°-90°)	35.0	0.3			G1/100
BL	(0°-30°)	563.1	5.4	B2/1000		
BM	(30°-60°)	875.6	8.5	B1/1000		
BH	(60°-80°)	386.9	3.7	B1/500		G1/500
BVH	(80°-90°)	47.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1
2.5°	2976.3	2974.1	2985.9	2945.8	2918.5	2881.5	2832.8	2770.7	2703.8	2633.2	2602.7
5°	3244.4	3225.7	3238.0	3208.0	3178.0	3122.4	3050.1	2949.0	2825.3	2684.6	2609.6
7.5°	3202.1	3189.3	3220.8	3247.6	3270.1	3263.1	3210.1	3104.2	2944.7	2740.2	2631.6
10°	2861.2	2846.7	2891.2	2983.8	3119.7	3238.0	3302.2	3236.4	3066.7	2801.2	2653.0
12.5°	2560.4	2553.5	2582.9	2657.8	2808.7	3035.7	3290.4	3352.0	3193.6	2873.5	2681.9
15°	2432.0	2423.4	2442.1	2480.1	2576.5	2787.9	3183.4	3431.2	3318.3	2957.0	2727.9
17.5°	2403.6	2394.0	2402.0	2421.8	2483.9	2645.0	3021.8	3470.3	3448.3	3050.1	2766.5
20°	2456.0	2448.0	2449.1	2448.0	2491.4	2619.3	2909.4	3455.3	3561.8	3135.8	2803.9
22.5°	2582.9	2569.5	2570.0	2541.7	2565.2	2664.2	2879.9	3415.1	3662.9	3210.7	2832.3
25°	2789.5	2765.4	2770.2	2698.0	2691.5	2764.9	2926.0	3384.1	3763.5	3270.6	2837.6
27.5°	3072.1	3044.8	3030.3	2922.7	2871.4	2907.8	3019.6	3394.8	3858.8	3322.5	2824.3
30°	3425.3	3392.1	3362.7	3210.1	3117.0	3103.6	3165.2	3465.4	3971.2	3377.1	2801.2
32.5°	3858.3	3819.7	3766.2	3563.9	3432.8	3362.7	3353.6	3591.2	4102.9	3446.7	2789.5
35°	4373.7	4323.4	4247.4	3985.7	3819.7	3676.3	3601.9	3772.6	4283.2	3551.6	2802.9
37.5°	4904.6	4847.9	4778.3	4466.8	4262.9	4051.5	3904.8	4018.8	4523.5	3694.0	2838.2
40°	5394.3	5330.6	5265.9	4988.6	4769.7	4515.0	4275.7	4330.3	4817.4	3864.2	2898.1
42.5°	5683.3	5636.2	5611.6	5461.7	5292.6	5034.1	4737.1	4699.6	5147.6	4060.0	2966.6
45°	5670.5	5651.2	5727.2	5789.3	5749.1	5605.7	5277.6	5108.0	5478.9	4229.7	3029.8
47.5°	5367.5	5380.4	5550.0	5899.0	6052.6	6127.5	5893.1	5508.8	5766.8	4356.5	3058.1
50°	4543.3	4554.0	4946.9	5699.4	6130.7	6553.0	6503.8	5900.1	5990.0	4434.2	3051.7
52.5°	3890.9	3897.9	4066.5	5107.4	5872.8	6767.1	7054.0	6268.8	6153.2	4455.6	3015.9
55°	2930.8	2954.9	3143.8	4007.1	5201.6	6597.4	7389.0	6648.8	6256.5	4457.7	2978.4
57.5°	1712.1	1738.3	1971.7	2719.9	4042.9	6006.0	7439.8	6986.0	6326.6	4440.6	2955.9
60°	838.7	849.9	951.6	1429.5	2493.0	4866.6	7031.0	7149.2	6365.7	4431.5	2954.9
62.5°	565.2	563.6	567.8	705.4	1228.3	3126.7	6178.9	6863.4	6344.8	4396.7	2944.1
65°	486.0	480.1	464.0	495.1	636.4	1430.1	4774.0	6010.3	6185.9	4309.4	2870.8
67.5°	420.1	420.7	421.2	411.6	454.4	659.9	2917.4	4734.4	5615.3	3896.3	2588.2
70°	347.9	352.7	354.8	354.8	370.4	433.0	1245.4	3244.9	4429.3	3054.9	2084.6
72.5°	316.8	306.7	307.7	302.4	302.4	329.7	501.5	1839.5	2790.5	1718.5	1272.2
75°	258.5	264.9	266.0	262.2	249.9	251.5	297.6	771.8	1194.0	712.9	628.9
77.5°	223.2	223.2	225.3	222.6	213.0	188.4	198.6	299.2	406.2	292.2	314.2
80°	179.3	178.8	187.9	193.2	178.2	139.2	126.8	165.4	180.4	128.4	163.2
82.5°	87.2	92.6	129.0	147.2	135.4	100.6	77.6	102.8	96.3	56.7	73.3
85°	50.8	48.2	57.8	81.9	77.6	55.7	37.5	53.5	50.3	28.9	29.4
87.5°	16.1	15.0	11.8	27.8	22.5	15.5	10.2	15.5	13.9	6.4	6.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1	2594.1
2.5°	2564.7	2501.5	2438.9	2381.7	2346.9	2324.4	2301.9	2276.8	2267.1	2252.7
5°	2539.0	2417.0	2308.3	2214.7	2129.6	2062.7	1995.2	1940.6	1916.0	1932.6
7.5°	2524.0	2347.4	2179.9	2008.1	1842.7	1710.5	1595.4	1514.6	1478.2	1487.3
10°	2510.6	2268.7	2013.4	1742.1	1504.5	1340.7	1222.9	1161.4	1138.4	1143.2
12.5°	2498.3	2180.4	1812.7	1455.8	1203.1	1095.0	1061.3	1061.8	1066.1	1069.3
15°	2496.2	2073.9	1588.5	1205.3	1040.4	1033.5	1069.9	1092.9	1105.2	1108.9
17.5°	2493.0	1946.5	1359.9	1034.5	1000.8	1047.9	1081.6	1096.6	1106.3	1106.8
20°	2480.1	1784.9	1149.1	953.2	992.3	1032.9	1053.8	1065.6	1073.6	1076.3
22.5°	2440.5	1605.1	984.8	916.8	958.0	990.7	1015.3	1028.7	1033.5	1036.7
25°	2369.3	1403.8	871.3	882.0	910.4	951.6	971.4	974.1	972.5	977.3
27.5°	2276.2	1188.1	800.7	834.9	871.3	906.6	917.3	915.7	912.5	917.9
30°	2163.8	994.4	755.7	781.9	831.7	863.8	873.5	869.7	863.3	869.2
32.5°	2045.0	836.0	718.8	745.0	799.1	830.6	840.3	836.5	831.7	836.5
35°	1934.2	725.2	684.5	720.4	773.4	804.4	816.7	817.3	817.3	823.1
37.5°	1832.5	660.4	656.2	704.9	755.7	783.5	801.2	802.3	779.3	780.9
40°	1738.3	633.1	643.3	694.7	738.6	765.3	766.4	706.5	664.2	663.1
42.5°	1661.3	627.8	647.1	693.6	726.3	727.3	651.9	605.3	593.5	594.1
45°	1589.0	626.2	655.6	693.6	708.1	628.3	577.5	565.2	566.2	570.5
47.5°	1508.2	619.8	657.2	684.0	655.6	558.8	543.8	538.4	536.3	537.3
50°	1419.9	596.8	636.9	664.7	565.7	528.8	510.0	508.4	511.1	512.7
52.5°	1326.8	559.3	602.1	629.9	524.5	502.6	481.7	485.4	497.2	500.9
55°	1265.8	515.4	556.1	560.4	495.6	477.9	460.3	468.8	490.8	497.7
57.5°	1249.7	468.8	503.6	498.8	458.7	456.5	445.8	453.3	481.1	491.3
60°	1244.9	427.1	452.2	448.5	422.8	433.0	430.3	434.0	443.7	446.9
62.5°	1207.4	393.9	406.2	400.9	390.7	408.4	414.8	406.8	414.2	418.0
65°	1112.2	367.1	361.3	357.5	361.8	377.9	390.7	374.6	381.6	392.3
67.5°	954.8	330.8	314.7	319.0	332.4	340.9	357.5	339.3	345.2	363.4
70°	772.3	284.7	270.3	282.6	295.4	313.1	315.8	303.5	317.4	337.7
72.5°	546.4	238.2	228.0	253.2	257.4	280.4	274.6	268.7	287.9	294.9
75°	378.9	192.1	186.3	205.5	221.0	240.8	236.6	243.5	284.2	287.4
77.5°	239.8	149.3	145.6	157.9	179.3	201.2	208.2	287.4	485.4	504.7
80°	139.2	111.3	107.0	116.7	135.4	155.7	200.7	352.7	320.1	316.3
82.5°	77.6	76.5	71.2	73.9	90.4	112.4	283.7	248.3	201.8	208.2
85°	36.4	45.0	38.5	36.9	50.8	131.7	189.5	141.8	94.2	92.1
87.5°	9.6	8.6	8.6	9.6	21.4	113.5	75.5	60.5	35.9	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)