

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: P947720

Luminaire Tested: **GALN-SB3A-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

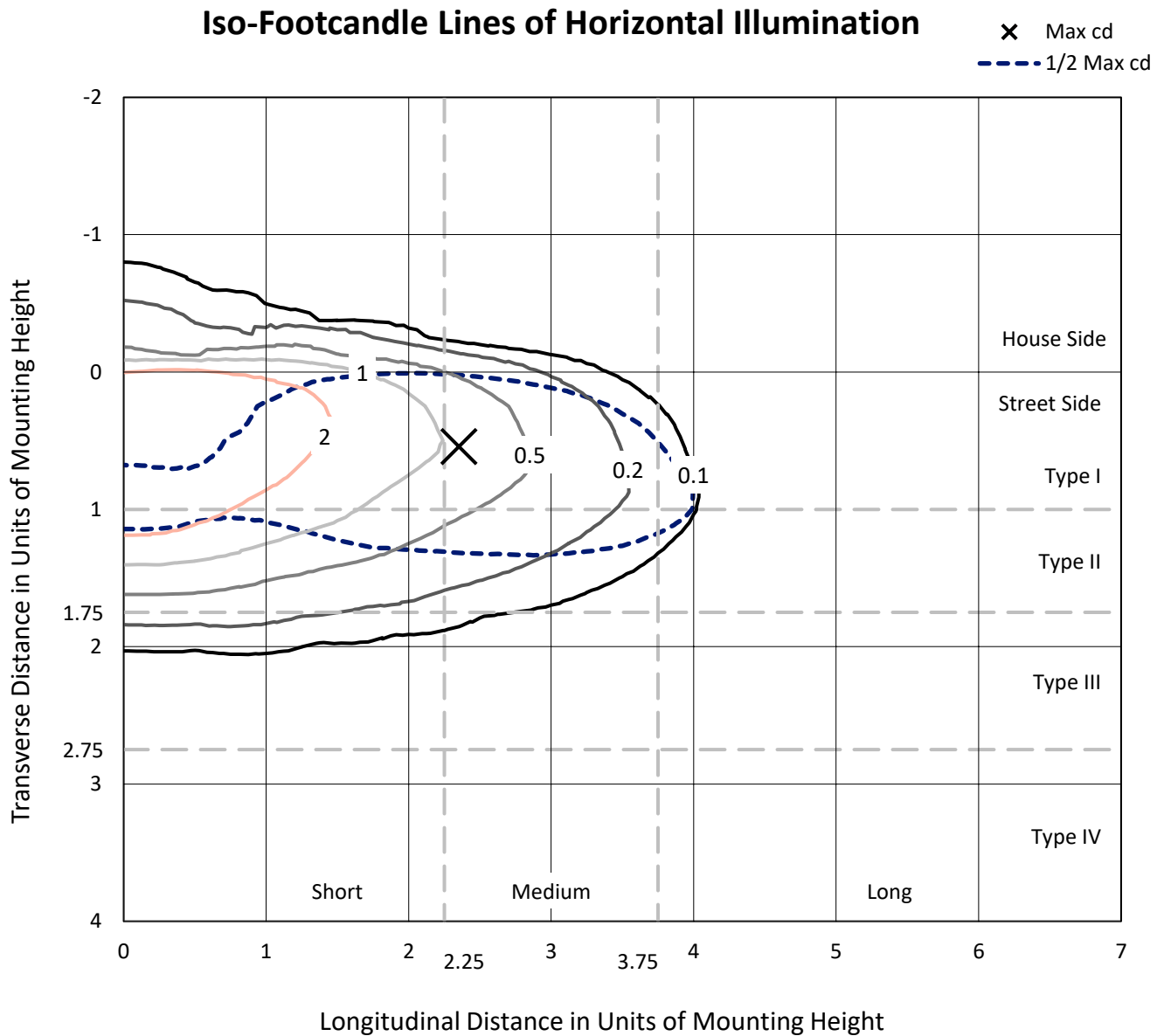
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10570 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

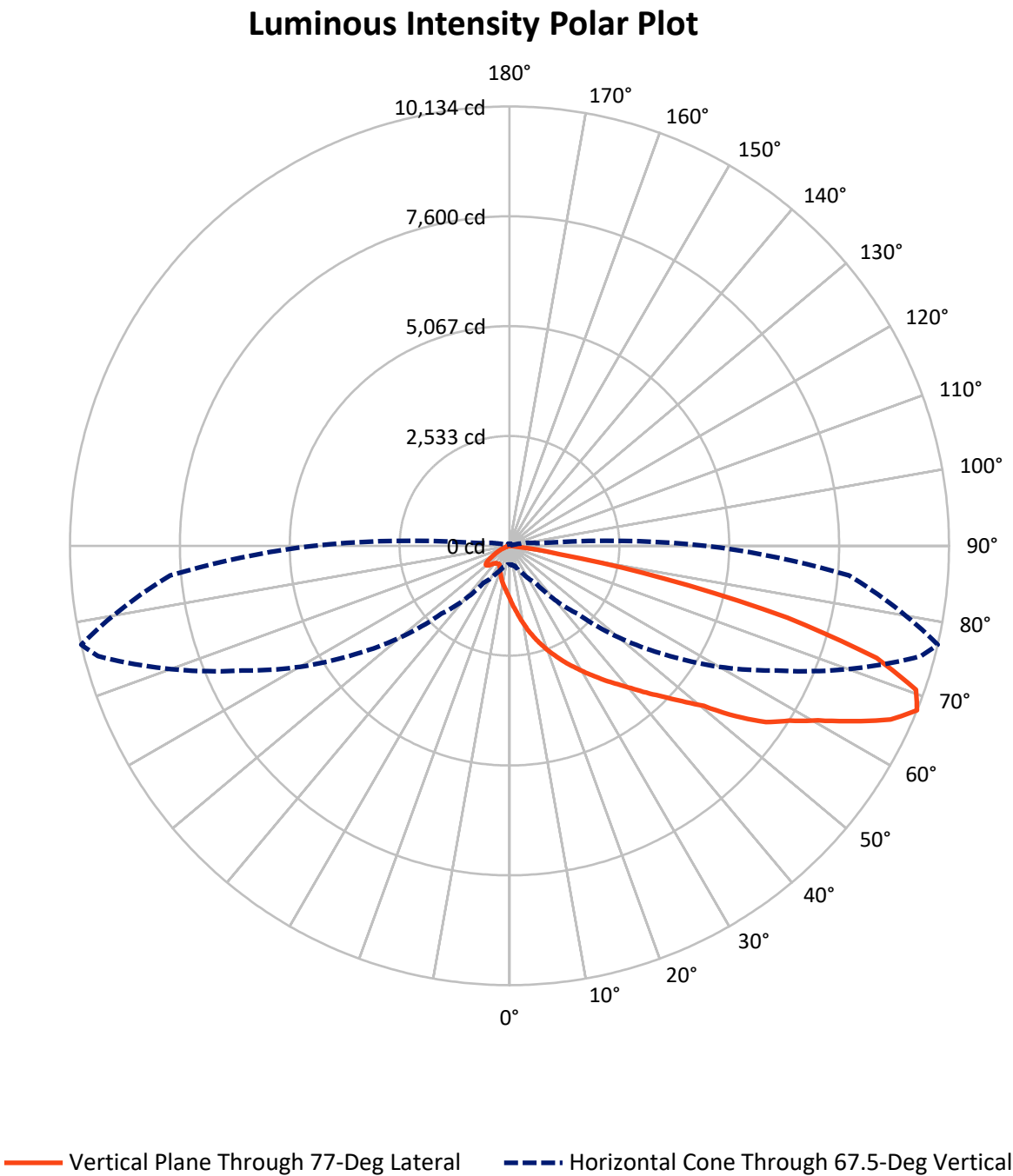


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Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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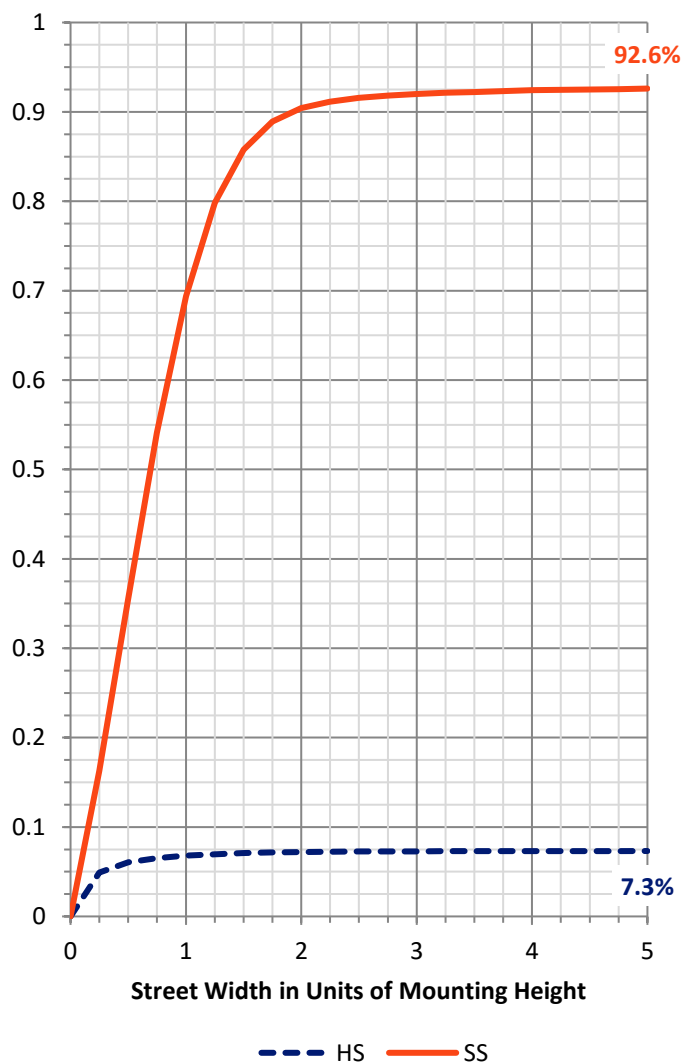
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.6	0.0	777.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9792.4	0.0	9792.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	10570.0	0.0	10570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	435.7	4.1
20°-30°	840.7	8.0
30°-40°	1459.5	13.8
40°-50°	2119.1	20.0
50°-60°	2433.5	23.0
60°-70°	2112.8	20.0
70°-80°	995.1	9.4
80°-90°	49.2	0.5
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°	10570.0	100.0
0°-180°	10570.0	100.0

Coefficient of Utilization



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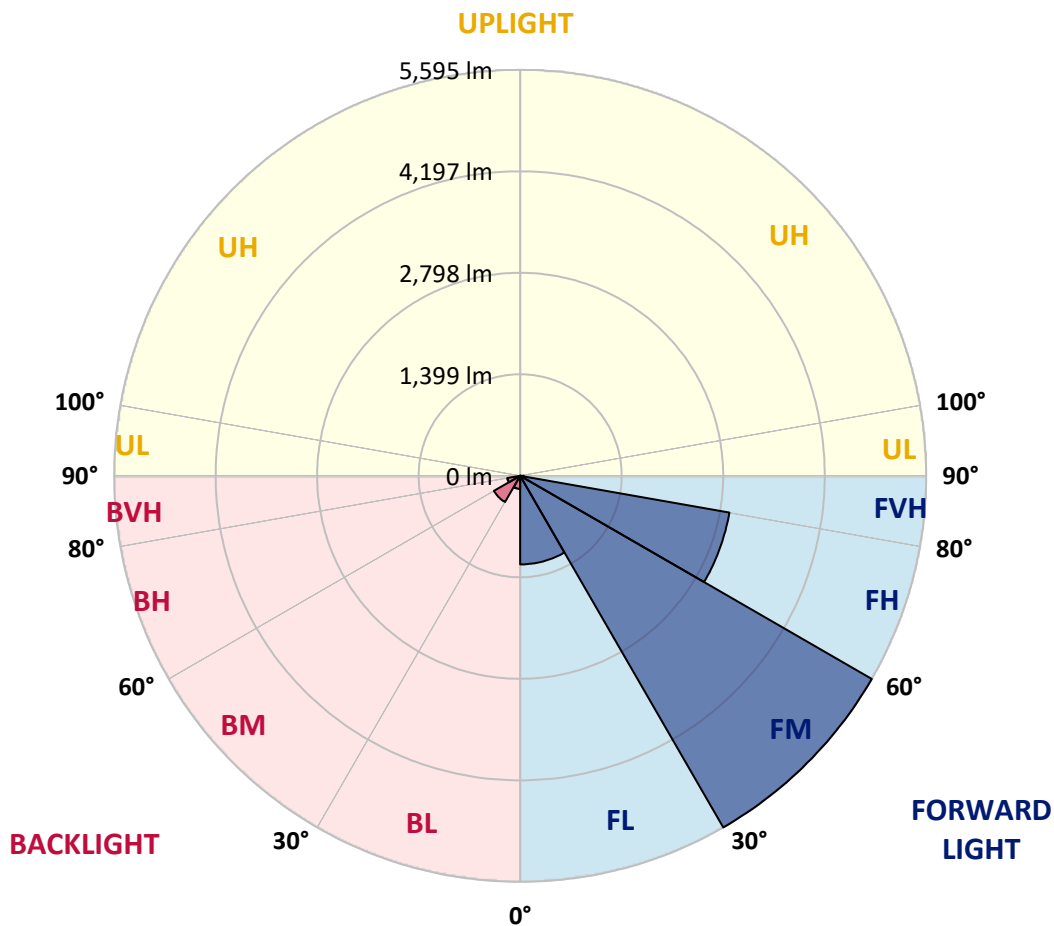
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1220.7	11.5			
FM	(30°-60°)	5595.5	52.9			
FH	(60°-80°)	2927.9	27.7			G2/5000
FVH	(80°-90°)	48.3	0.5			G1/100
BL	(0°-30°)	180.0	1.7	B1/500		
BM	(30°-60°)	416.7	3.9	B1/1000		
BH	(60°-80°)	180.0	1.7	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1687.5	1698.0	1682.9	1654.0	1610.7	1582.5	1513.6	1448.6	1376.4	1353.4	1281.2
5°	2057.1	2066.2	2049.2	2017.7	1959.9	1904.8	1814.2	1678.3	1537.2	1491.9	1363.9
7.5°	2330.8	2336.0	2329.5	2300.6	2245.4	2183.1	2082.0	1921.2	1711.8	1661.9	1465.7
10°	2527.7	2544.7	2542.8	2531.6	2494.9	2444.3	2336.7	2153.5	1907.4	1843.1	1580.5
12.5°	2658.3	2677.3	2688.5	2713.4	2711.5	2679.3	2584.8	2391.2	2102.3	2026.9	1709.8
15°	2696.4	2716.7	2759.4	2817.1	2868.3	2884.7	2818.4	2624.2	2317.0	2220.5	1842.4
17.5°	2674.7	2706.2	2757.4	2848.6	2960.9	3035.0	3027.8	2849.3	2511.9	2401.7	1972.4
20°	2722.6	2752.8	2792.8	2869.6	3000.3	3134.8	3188.6	3064.6	2705.6	2590.0	2108.9
22.5°	2987.8	2982.5	2986.5	2998.9	3077.1	3210.3	3321.2	3260.2	2897.2	2779.1	2253.3
25°	3407.9	3384.2	3344.2	3276.6	3256.9	3321.2	3436.7	3433.5	3099.4	2972.7	2401.0
27.5°	3889.6	3885.7	3791.8	3629.1	3537.2	3512.2	3567.4	3602.2	3299.6	3164.4	2549.3
30°	4351.1	4361.6	4234.9	4053.7	3885.0	3787.2	3737.4	3762.3	3503.0	3371.1	2702.3
32.5°	4752.8	4763.9	4626.1	4414.1	4205.4	4087.2	3982.2	3920.5	3724.9	3581.1	2870.3
35°	5092.1	5103.3	4945.1	4710.8	4488.2	4381.3	4262.5	4093.8	3948.1	3814.2	3057.4
37.5°	5395.3	5392.1	5180.1	4943.8	4725.2	4640.5	4578.2	4307.1	4177.8	4048.5	3264.8
40°	5574.5	5588.3	5407.2	5146.6	4934.6	4872.9	4868.9	4571.6	4443.0	4317.6	3491.9
42.5°	5627.0	5651.3	5520.1	5306.1	5113.8	5046.8	5149.9	4857.8	4751.5	4629.4	3748.5
45°	5532.5	5556.2	5496.4	5348.1	5235.9	5192.5	5391.4	5154.5	5080.9	4960.2	4038.0
47.5°	5256.9	5286.4	5300.8	5269.3	5268.0	5312.0	5608.0	5466.9	5472.1	5348.7	4373.4
50°	4723.2	4773.1	4905.7	5017.3	5189.9	5406.5	5818.7	5805.6	5913.2	5806.9	4810.5
52.5°	3753.1	3824.0	4280.8	4586.0	4974.0	5388.8	6050.4	6349.1	6687.1	6531.5	5426.9
55°	3016.0	3016.0	3387.5	3958.6	4552.6	5272.0	6151.5	6702.2	7214.1	7177.4	5860.7
57.5°	2458.8	2488.3	2725.2	3230.0	3942.8	4993.7	6213.8	6924.0	7638.8	7611.9	6284.7
60°	1517.5	1581.2	2028.8	2527.0	3249.0	4498.1	6174.5	7148.5	8154.1	8175.7	6795.4
62.5°	854.6	878.2	1077.8	1818.1	2526.4	3831.9	5873.2	7273.9	8813.1	8905.0	7321.8
65°	590.1	601.9	678.7	1131.6	1751.2	3050.8	5284.4	7195.8	9473.4	9659.1	7768.1
67.5°	428.6	434.5	482.4	691.2	1039.0	2212.0	4361.6	6801.9	9823.2	10133.7	7853.4
70°	329.5	333.4	368.2	454.2	613.7	1365.2	3167.6	6018.9	9569.9	9940.7	7416.3
72.5°	267.8	271.7	298.6	336.1	406.9	807.3	1919.9	4888.0	8451.4	8851.8	6313.6
75°	225.8	231.0	255.3	279.6	319.0	518.5	900.5	3403.9	6355.6	6618.2	4390.4
77.5°	125.4	115.5	207.4	231.7	269.1	328.2	421.4	2003.2	3559.5	3632.3	1948.1
80°	78.1	80.7	164.7	186.4	206.8	165.4	193.0	771.2	1234.0	1172.3	377.4
82.5°	4.6	10.5	126.7	134.6	141.8	70.9	72.9	261.9	297.3	273.0	66.9
85°	0.0	0.0	57.8	46.6	49.2	20.3	21.0	61.0	40.0	43.3	13.1
87.5°	0.0	0.0	0.0	1.3	0.0	2.0	3.9	5.3	2.0	2.6	4.6
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1235.3	1189.3	1096.1	1004.9	930.7	861.8	812.6	766.0	742.4	741.0	739.7
5°	1272.7	1176.2	989.8	825.1	692.5	586.1	517.2	468.0	443.0	434.5	433.2
7.5°	1325.2	1180.2	896.6	667.5	511.3	420.1	380.7	364.9	359.7	353.8	352.5
10°	1391.5	1189.3	813.2	537.6	403.0	357.1	341.3	334.7	330.8	326.9	325.6
12.5°	1465.7	1197.9	730.5	446.3	354.4	330.8	319.7	311.8	306.5	301.9	300.6
15°	1537.9	1203.1	644.6	382.7	329.5	310.5	298.6	290.1	282.9	277.6	277.0
17.5°	1609.4	1210.3	563.8	344.6	309.1	290.1	278.3	267.8	261.9	256.0	255.3
20°	1688.8	1209.0	487.7	317.7	288.8	269.8	257.3	247.5	241.5	235.0	234.3
22.5°	1762.3	1202.5	420.7	294.7	267.8	249.4	235.6	225.8	219.9	214.6	214.0
25°	1847.0	1197.2	364.9	273.7	248.1	229.7	214.6	205.4	198.9	194.3	193.6
27.5°	1928.4	1189.3	324.2	254.7	229.1	211.4	196.9	186.4	180.5	177.2	177.2
30°	2008.5	1187.4	309.1	236.3	212.0	194.3	179.8	170.0	165.4	164.1	163.4
32.5°	2105.0	1192.6	315.7	229.7	196.3	178.5	164.7	157.5	152.9	152.9	152.9
35°	2208.0	1191.3	325.6	235.6	185.8	162.8	152.3	147.7	143.1	143.1	143.1
37.5°	2337.3	1193.3	333.4	245.5	181.8	149.7	143.7	137.8	135.2	135.2	135.2
40°	2530.3	1258.3	329.5	254.0	180.5	140.5	128.6	126.7	124.7	124.7	124.7
42.5°	2766.6	1399.4	334.7	254.7	179.8	133.9	118.1	122.1	117.5	116.8	116.2
45°	3025.2	1553.6	368.2	240.9	179.2	130.6	112.9	117.5	110.3	110.3	110.3
47.5°	3281.8	1706.6	402.4	221.2	177.2	130.0	108.3	105.7	103.7	104.4	104.4
50°	3635.6	1831.3	415.5	194.3	172.6	128.6	99.8	100.4	99.1	100.4	100.4
52.5°	4020.9	1857.5	399.7	164.1	159.5	124.7	93.9	96.5	95.8	97.1	97.1
55°	4261.1	1829.3	330.2	136.5	139.2	109.0	88.0	93.2	93.2	93.2	93.2
57.5°	4509.3	1709.2	234.3	110.9	115.5	89.3	82.7	89.9	89.3	88.6	88.6
60°	4687.8	1514.9	154.2	91.2	91.9	73.5	76.8	84.7	84.0	80.7	80.7
62.5°	4821.0	1300.3	99.1	77.5	70.2	66.3	70.2	76.8	74.2	66.9	65.6
65°	4805.9	1002.9	76.1	66.3	57.8	57.8	61.0	66.9	59.1	47.3	45.9
67.5°	4525.7	678.7	63.0	55.8	48.6	47.9	50.5	55.8	50.5	40.0	38.7
70°	4024.9	443.7	50.5	43.3	38.7	35.4	40.7	47.9	42.7	32.2	30.8
72.5°	3266.7	270.4	38.1	31.5	28.2	23.0	32.2	39.4	34.1	23.6	22.3
75°	2113.5	137.8	26.3	20.3	15.1	13.8	23.6	29.5	23.6	14.4	12.5
77.5°	808.6	57.8	14.4	9.2	7.9	6.6	13.1	17.7	9.8	3.3	2.6
80°	155.6	24.3	7.2	4.6	3.9	2.6	2.0	1.3	0.0	0.0	0.0
82.5°	26.9	7.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)