

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: P945945

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

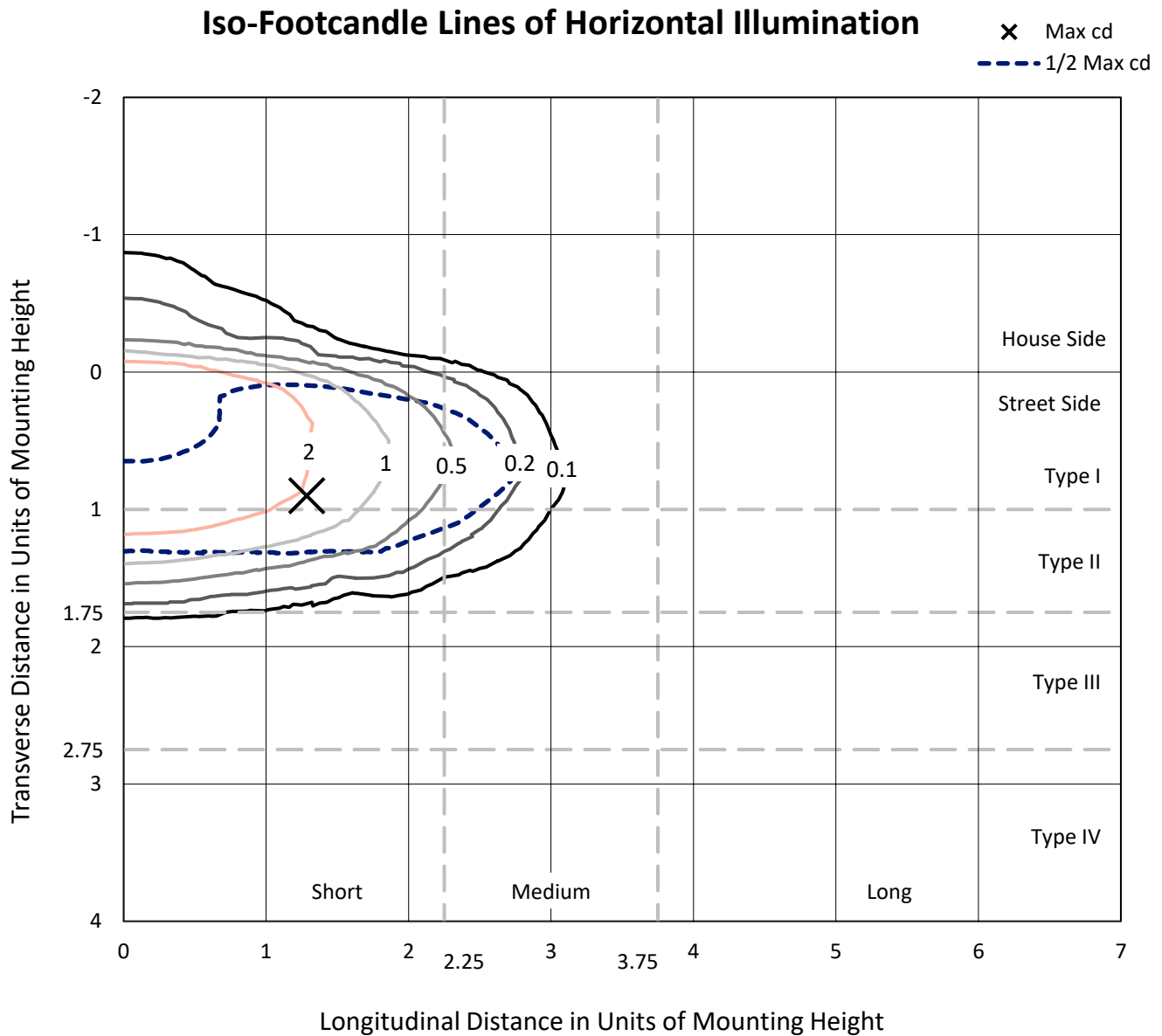
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8679 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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



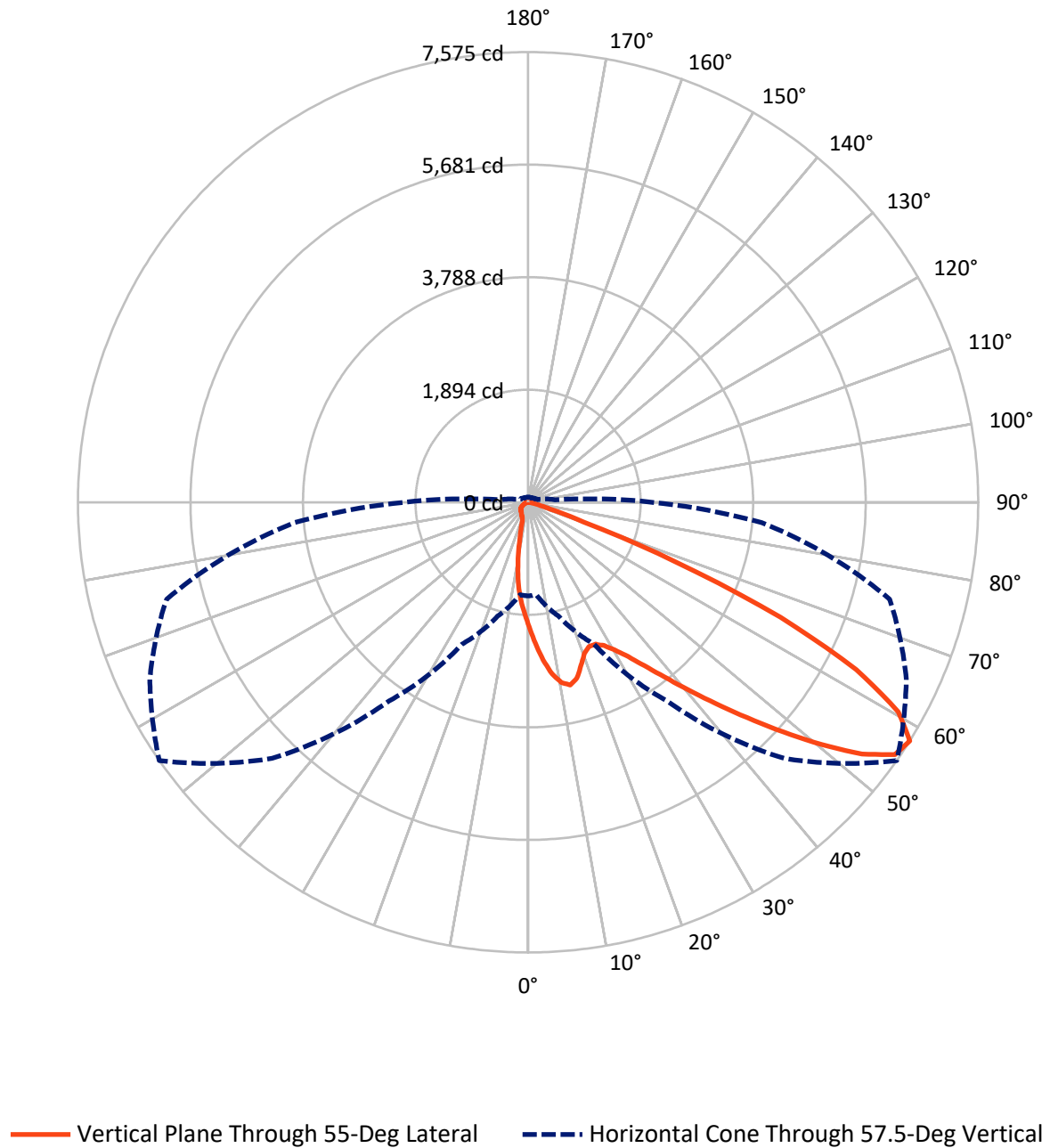
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Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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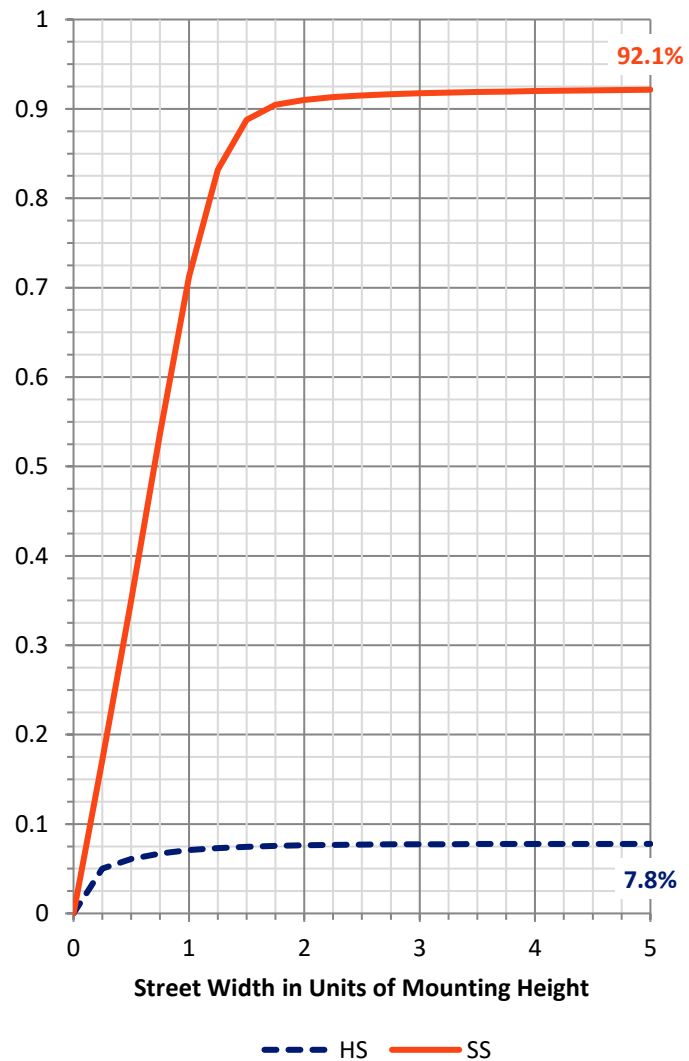
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.8	0.0	677.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8001.2	0.0	8001.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	8679.0	0.0	8679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	2.2
10°-20°	470.0	5.4
20°-30°	752.1	8.7
30°-40°	1272.9	14.7
40°-50°	2089.9	24.1
50°-60°	2296.9	26.5
60°-70°	1317.5	15.2
70°-80°	269.2	3.1
80°-90°	15.9	0.2
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°	8679.0	100.0
0°-180°	8679.0	100.0

Coefficient of Utilization



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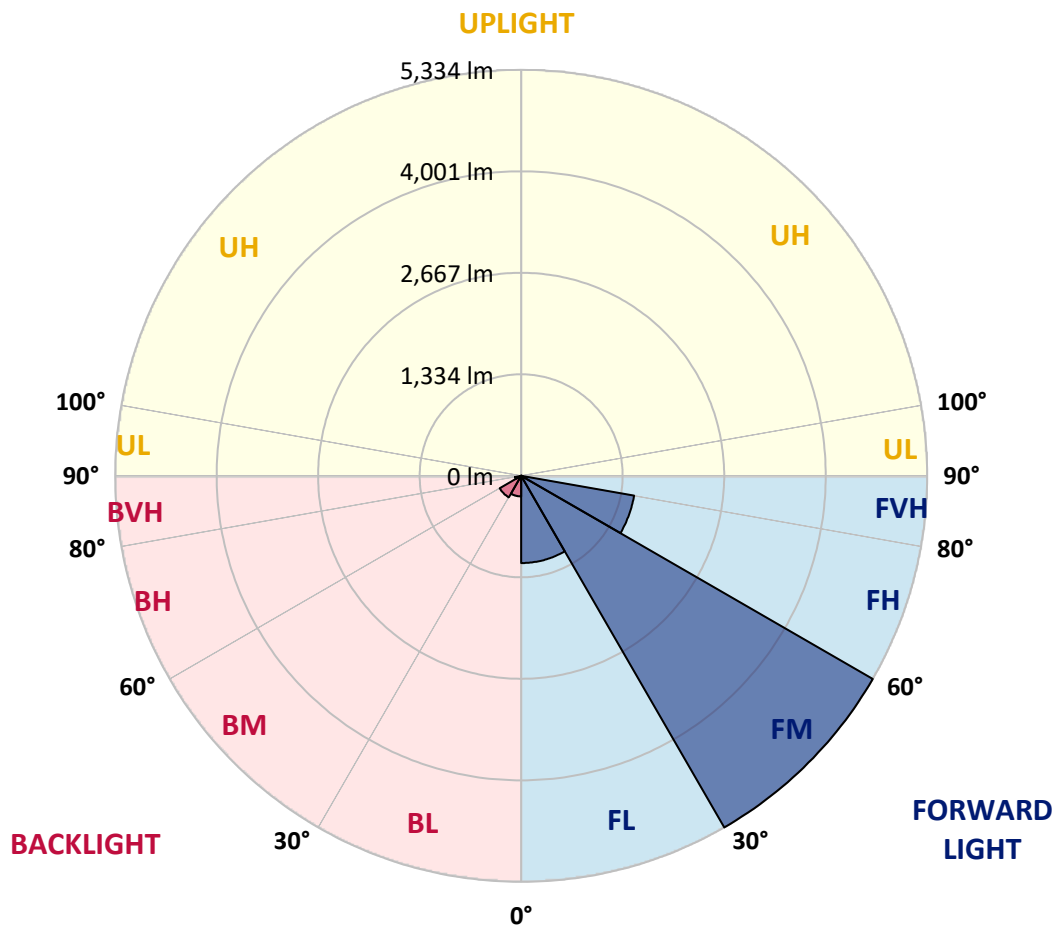
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.1	13.2			
FM	(30°-60°)	5334.2	61.5			
FH	(60°-80°)	1506.1	17.4			G1/1800
FVH	(80°-90°)	14.8	0.2			G1/100
BL	(0°-30°)	270.6	3.1	B1/500		
BM	(30°-60°)	325.5	3.8	B1/1000		
BH	(60°-80°)	80.6	0.9	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4
2.5°	2595.0	2562.4	2557.6	2551.1	2489.1	2442.5	2375.1	2301.2	2218.3	2133.7	2096.2
5°	2998.0	2972.3	2967.5	2937.5	2866.9	2787.7	2667.8	2516.3	2361.7	2179.7	2101.6
7.5°	3076.1	3071.3	3093.3	3092.2	3082.6	3019.9	2918.8	2738.4	2506.2	2236.5	2115.5
10°	2727.7	2740.0	2805.3	2862.6	3017.3	3107.2	3085.2	2936.5	2655.0	2301.2	2131.0
12.5°	2410.4	2395.9	2442.5	2507.2	2687.1	2954.6	3154.3	3101.8	2825.1	2374.5	2154.0
15°	2211.3	2205.4	2231.6	2261.6	2398.6	2668.3	3074.0	3236.1	2988.9	2461.2	2188.8
17.5°	2147.6	2142.8	2150.8	2158.3	2247.2	2455.9	2882.9	3318.6	3145.7	2560.2	2227.4
20°	2199.5	2193.1	2192.0	2186.1	2223.1	2365.4	2710.1	3324.4	3286.4	2650.1	2260.5
22.5°	2351.0	2343.5	2317.3	2293.7	2296.9	2377.7	2633.0	3265.6	3392.4	2734.2	2281.4
25°	2625.5	2613.2	2558.6	2479.4	2429.1	2463.4	2644.8	3188.0	3493.6	2800.0	2271.2
27.5°	2969.1	2953.0	2882.9	2765.2	2650.1	2608.4	2729.9	3134.5	3577.6	2850.3	2249.3
30°	3305.7	3284.8	3215.8	3124.3	2956.3	2824.6	2883.5	3158.0	3677.7	2902.7	2220.4
32.5°	3669.1	3649.3	3557.8	3444.3	3305.2	3128.0	3093.8	3273.1	3800.2	2976.1	2200.1
35°	4128.8	4097.8	3967.7	3813.1	3665.3	3486.1	3378.5	3471.6	3963.4	3087.9	2211.3
37.5°	4652.2	4610.4	4470.2	4256.7	4064.0	3863.4	3725.3	3744.6	4202.7	3237.7	2246.1
40°	5145.6	5107.6	4978.1	4776.9	4535.0	4291.5	4144.3	4101.5	4532.8	3420.2	2307.1
42.5°	5441.6	5407.3	5352.7	5267.6	5063.7	4815.4	4629.7	4537.1	4923.5	3638.6	2381.5
45°	5458.1	5428.2	5501.5	5600.5	5560.4	5395.0	5168.6	4999.0	5315.8	3843.6	2458.5
47.5°	5192.7	5172.4	5395.0	5740.7	5913.0	5982.6	5773.9	5422.3	5639.6	3990.7	2490.1
50°	4469.2	4461.7	4919.8	5554.5	6047.4	6497.4	6412.3	5816.2	5890.6	4066.7	2460.2
52.5°	3875.1	3847.8	4114.9	4958.3	5852.0	6768.2	7036.4	6202.6	6066.1	4081.2	2390.0
55°	2939.1	2915.0	3250.1	3960.8	5222.1	6671.9	7492.8	6601.3	6191.9	4044.2	2264.3
57.5°	1576.6	1561.6	1984.9	2636.2	4082.2	6093.9	7575.3	7023.0	6297.8	3946.3	2088.2
60°	613.8	611.2	769.6	1279.0	2481.0	4957.8	7159.4	7276.1	6364.2	3825.9	1941.0
62.5°	371.4	379.4	405.1	574.2	1096.0	3079.9	6201.0	6988.2	6408.6	3715.7	1819.6
65°	307.2	307.7	310.9	394.4	525.0	1288.7	4668.2	6040.9	6298.9	3519.2	1647.2
67.5°	263.3	268.1	280.4	313.1	370.3	565.1	2687.6	4679.5	5631.5	3062.2	1378.6
70°	207.6	214.1	229.6	257.4	285.8	353.7	993.3	3113.6	4302.2	2308.2	1042.5
72.5°	175.0	174.5	182.5	209.2	226.9	248.9	382.1	1744.6	2500.3	1101.9	515.9
75°	135.4	140.7	150.9	175.0	185.7	180.4	207.1	637.4	895.9	333.9	175.5
77.5°	106.0	110.2	119.3	142.9	153.6	127.9	119.3	228.0	287.9	119.9	79.2
80°	47.6	51.4	81.3	105.4	125.2	88.3	64.8	116.7	127.9	54.6	40.1
82.5°	8.6	14.4	47.6	55.7	64.2	57.3	33.7	60.5	62.6	21.9	13.9
85°	0.5	1.1	16.6	20.3	25.7	18.7	10.2	24.1	20.9	7.5	5.4
87.5°	0.0	0.0	0.0	0.5	0.5	2.7	3.2	4.3	3.2	2.7	2.1
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°	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4	2091.4
2.5°	2057.7	1981.7	1907.9	1847.4	1812.1	1752.1	1712.5	1706.1	1689.5	1704.0
5°	2018.1	1882.2	1744.6	1621.6	1520.4	1389.8	1292.4	1251.2	1215.4	1227.7
7.5°	1999.4	1784.8	1570.7	1360.4	1144.2	935.5	780.3	715.5	666.3	673.2
10°	1974.2	1683.6	1348.1	1027.0	737.5	531.4	424.4	384.8	362.8	363.4
12.5°	1955.0	1562.7	1089.6	696.2	449.0	339.3	306.1	296.5	290.1	290.6
15°	1945.3	1420.3	834.3	464.0	321.1	287.4	279.4	275.1	270.8	270.3
17.5°	1929.3	1261.9	610.6	338.8	281.0	269.2	262.2	257.4	252.1	251.0
20°	1905.2	1082.1	446.3	286.3	263.3	254.2	244.6	238.1	231.7	230.7
22.5°	1860.8	892.1	343.0	264.9	250.5	240.3	228.5	221.0	214.6	213.5
25°	1778.4	713.9	289.0	251.5	239.2	226.9	214.1	203.9	198.0	196.9
27.5°	1674.0	560.9	262.2	239.2	224.8	213.5	199.1	189.4	184.1	183.0
30°	1550.9	431.9	246.7	225.3	207.6	198.0	185.2	177.1	173.9	173.9
32.5°	1418.2	345.2	240.3	211.4	192.7	182.0	171.8	168.6	167.5	167.0
35°	1293.5	299.7	237.1	200.2	179.3	169.1	164.8	165.4	167.5	167.5
37.5°	1182.7	285.2	235.5	192.1	167.5	158.4	161.1	165.9	163.8	163.8
40°	1082.6	286.8	234.4	186.2	157.9	152.5	157.9	154.1	148.8	148.2
42.5°	1006.1	300.2	232.3	181.4	152.0	148.2	146.1	140.2	139.7	140.7
45°	950.5	312.0	231.7	179.3	145.6	138.6	135.9	130.0	140.7	143.4
47.5°	884.6	312.0	231.7	171.8	134.9	132.2	127.9	121.5	132.2	134.9
50°	799.5	292.2	222.6	163.2	126.3	124.7	117.2	109.2	107.0	108.6
52.5°	692.0	256.3	199.6	151.5	117.7	114.5	105.4	99.5	97.9	97.9
55°	569.4	214.6	168.6	134.3	108.6	102.8	96.3	93.7	92.0	91.0
57.5°	462.9	176.1	135.4	119.3	100.1	92.6	90.4	87.2	84.6	83.0
60°	380.0	138.6	111.8	106.0	91.5	84.6	84.0	79.7	72.8	71.7
62.5°	293.3	101.7	94.2	92.0	83.0	77.1	76.0	67.4	56.7	54.6
65°	207.1	79.2	76.0	80.8	73.9	68.5	65.8	53.0	41.7	40.1
67.5°	145.6	66.4	59.9	70.6	64.2	57.3	55.7	45.0	34.8	33.7
70°	103.8	54.1	49.2	60.5	51.4	50.3	47.1	37.5	28.4	27.3
72.5°	73.3	41.2	38.0	52.4	35.3	43.3	38.5	28.9	21.4	20.3
75°	54.1	29.4	26.8	30.5	25.7	32.6	27.3	19.3	13.4	12.8
77.5°	39.6	18.7	16.1	15.0	15.0	20.3	15.0	8.0	5.9	5.4
80°	27.8	8.6	7.5	6.4	5.9	4.8	2.1	1.1	0.5	0.5
82.5°	16.6	3.7	3.7	2.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	3.7	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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

(END OF REPORT)