

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: P451764

Luminaire Tested: **GALN-SA2C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9293 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

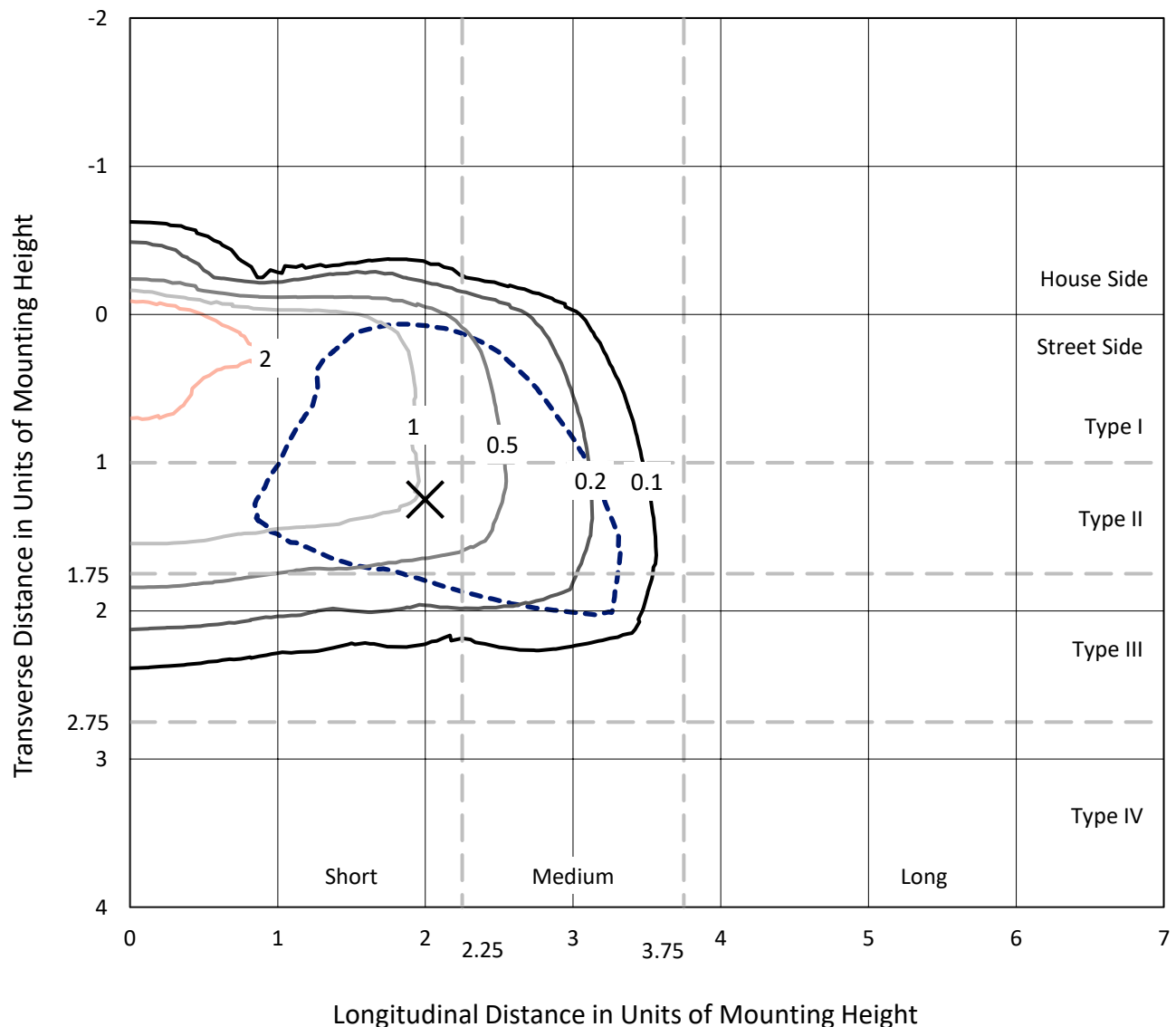


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

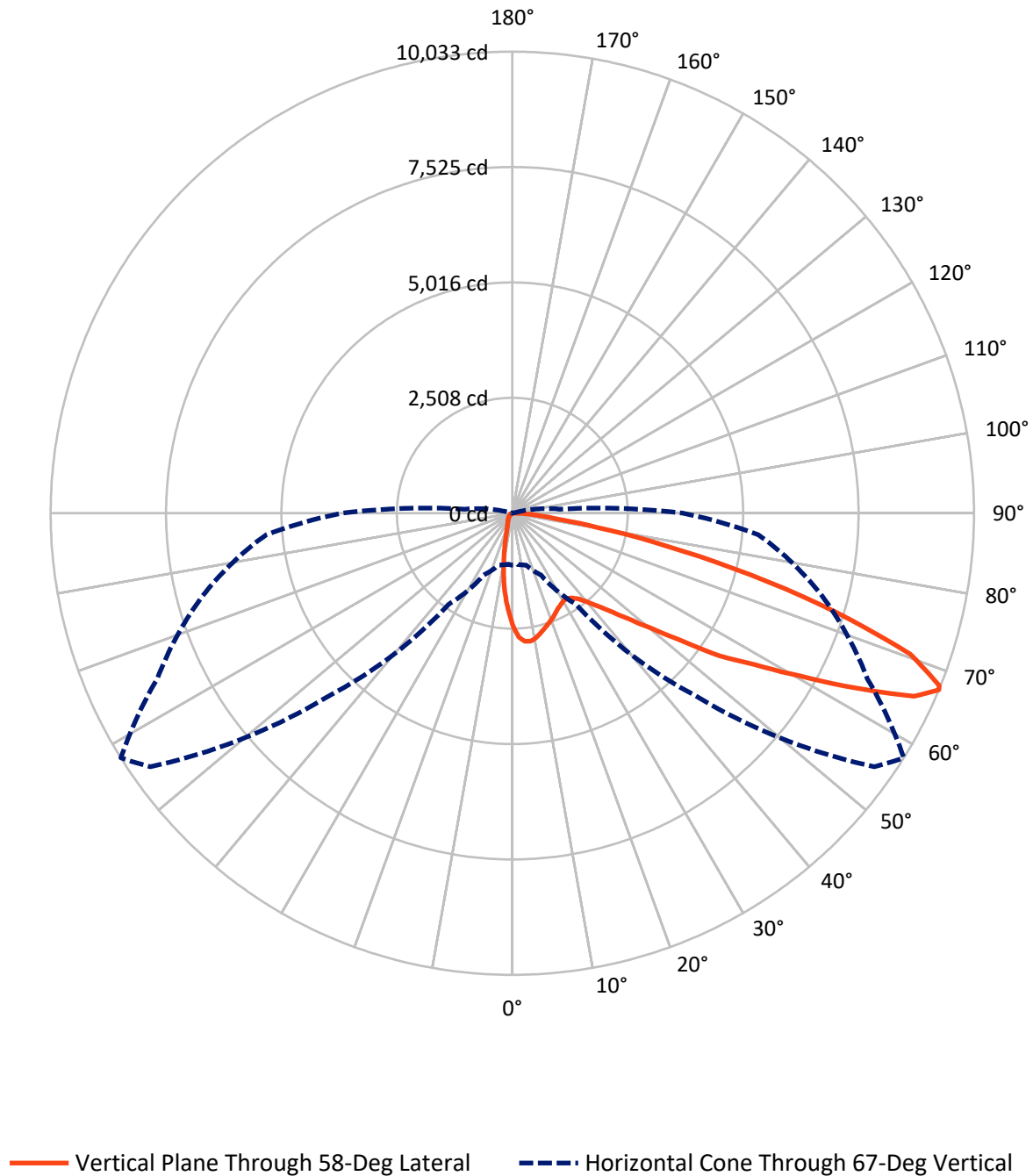


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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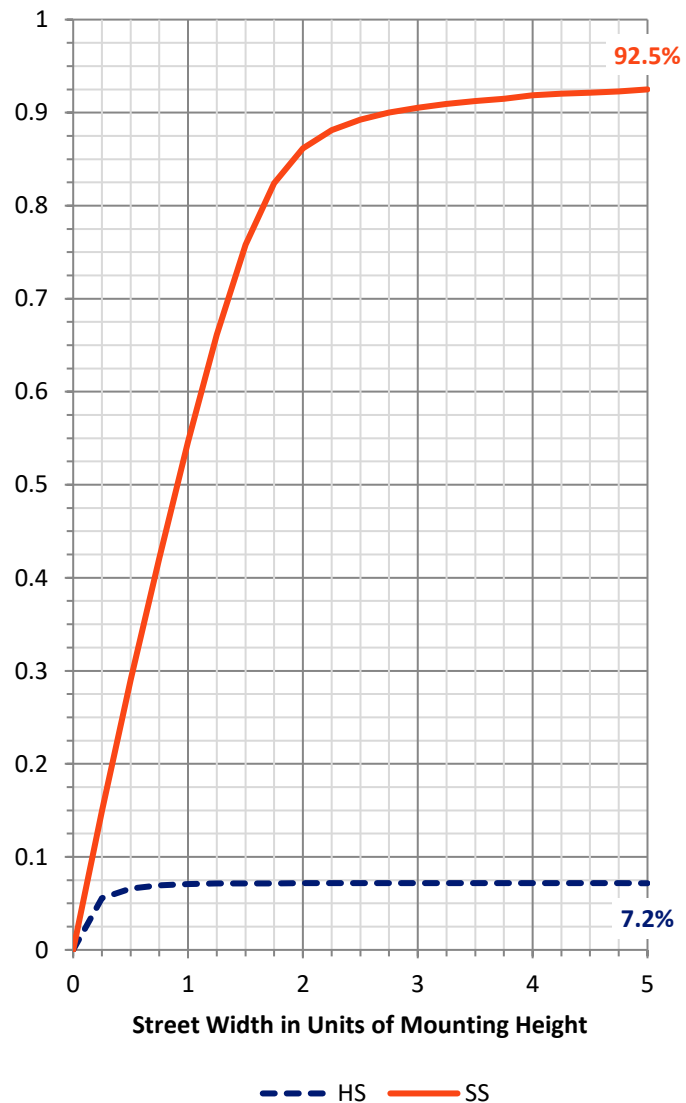
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.6	0.0	670.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8622.4	0.0	8622.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	9293.0	0.0	9293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	2.2
10°-20°	431.7	4.6
20°-30°	585.1	6.3
30°-40°	811.4	8.7
40°-50°	1294.1	13.9
50°-60°	2237.0	24.1
60°-70°	2555.4	27.5
70°-80°	1065.4	11.5
80°-90°	113.0	1.2
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°	9293.0	100.0
0°-180°	9293.0	100.0

Coefficient of Utilization



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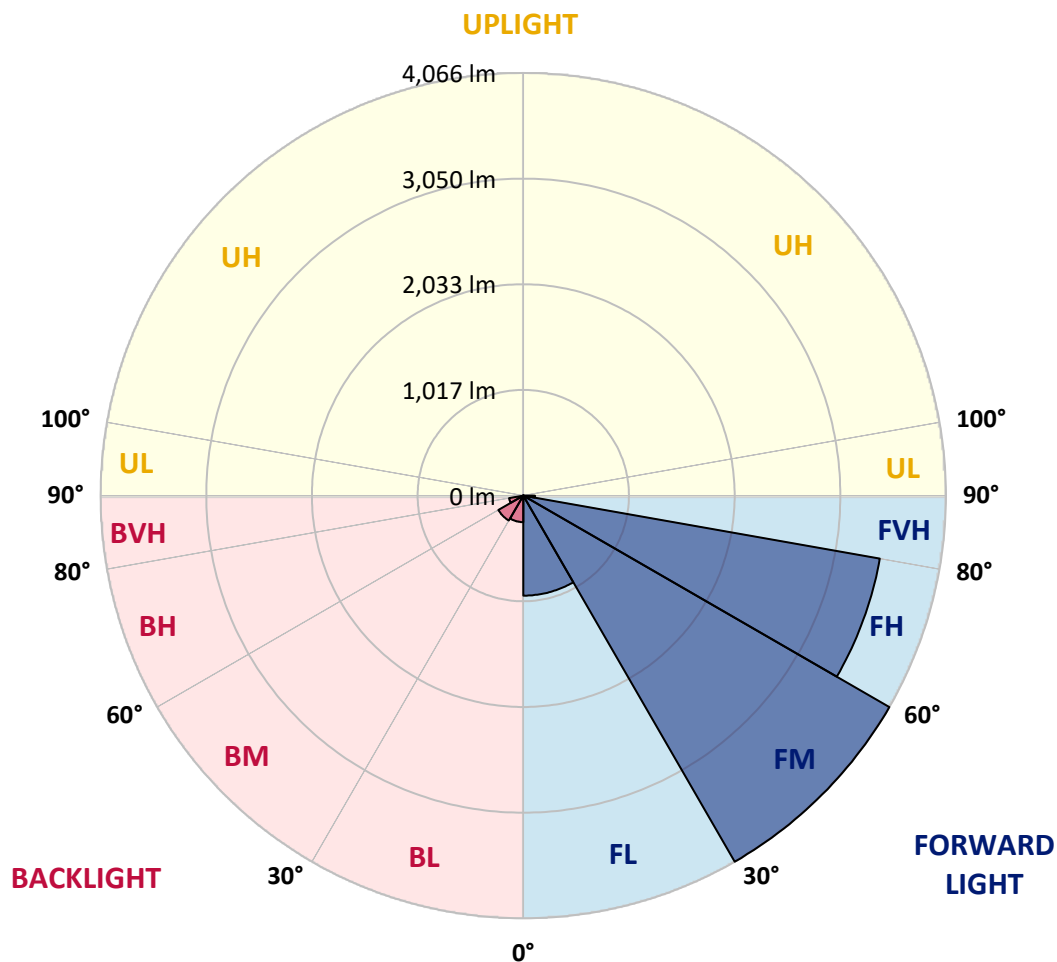
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.0	10.4			
FM	(30°-60°)	4066.1	43.8			
FH	(60°-80°)	3482.1	37.5			G2/5000
FVH	(80°-90°)	112.1	1.2			G2/225
BL	(0°-30°)	254.7	2.7	B1/500		
BM	(30°-60°)	276.5	3.0	B1/1000		
BH	(60°-80°)	138.6	1.5	B1/500		G1/500
BVH	(80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5
2.5°	2859.1	2863.4	2847.3	2834.2	2800.7	2764.7	2716.9	2691.4	2647.9	2572.8	2489.6
5°	2926.1	2931.7	2929.2	2926.1	2913.1	2878.3	2817.5	2795.1	2731.1	2608.8	2458.5
7.5°	2777.1	2797.6	2800.1	2824.3	2847.3	2850.4	2827.4	2810.6	2751.6	2608.2	2403.3
10°	2579.6	2593.3	2613.1	2641.1	2696.4	2742.3	2764.7	2762.2	2728.0	2588.9	2338.7
12.5°	2380.3	2387.7	2418.2	2466.0	2533.7	2611.9	2671.5	2683.3	2683.9	2566.0	2284.6
15°	2208.9	2205.8	2229.4	2284.6	2379.7	2477.8	2584.6	2603.2	2633.0	2543.6	2234.3
17.5°	2062.3	2078.5	2082.2	2143.1	2230.6	2357.9	2493.9	2526.8	2586.4	2524.3	2192.7
20°	1971.7	1980.4	1988.4	2022.6	2101.4	2235.6	2408.8	2454.2	2543.0	2507.0	2146.2
22.5°	1945.0	1950.5	1943.7	1954.3	2010.2	2129.4	2316.3	2376.5	2501.4	2490.8	2108.3
25°	1965.5	1971.0	1954.9	1942.5	1961.7	2043.1	2226.9	2300.2	2467.8	2487.7	2079.7
27.5°	2015.1	2025.7	2003.3	1981.0	1969.8	1996.5	2156.7	2241.8	2444.9	2502.6	2066.7
30°	2092.8	2099.0	2082.2	2054.9	2029.4	2002.7	2120.1	2201.4	2438.6	2537.4	2065.4
32.5°	2177.2	2190.3	2180.9	2162.9	2130.0	2066.7	2130.6	2202.7	2453.6	2587.7	2081.0
35°	2281.5	2296.4	2305.1	2301.4	2259.2	2180.3	2197.7	2258.6	2493.3	2680.2	2123.2
37.5°	2384.0	2397.0	2446.1	2462.9	2425.6	2351.1	2328.1	2368.5	2580.9	2801.3	2199.6
40°	2501.4	2518.8	2587.7	2651.7	2633.6	2555.4	2513.2	2546.7	2715.0	2983.9	2344.3
42.5°	2613.8	2644.8	2749.8	2862.8	2879.6	2792.0	2764.1	2775.2	2913.7	3246.6	2546.1
45°	2773.4	2802.6	2937.9	3091.3	3170.2	3101.9	3073.3	3071.4	3186.3	3616.1	2873.3
47.5°	3003.8	3029.8	3189.4	3341.0	3481.3	3490.6	3436.6	3455.2	3529.1	4048.3	3274.5
50°	3286.3	3347.8	3452.7	3610.5	3798.0	3949.5	3966.3	3941.5	4004.8	4548.8	3756.4
52.5°	3696.8	3720.4	3816.6	3946.4	4166.3	4423.4	4622.7	4588.5	4568.7	5025.7	4243.3
55°	4002.9	4034.6	4184.3	4362.5	4684.8	5023.9	5456.1	5467.9	5217.0	5484.0	4719.6
57.5°	3910.4	3958.8	4185.5	4543.8	5252.4	5872.1	6193.8	6201.9	5816.9	5929.3	5257.3
60°	3435.3	3458.3	3783.1	4261.3	5300.8	6791.2	7240.2	7175.0	6427.3	6427.3	5732.4
62.5°	2436.2	2472.2	2735.5	3439.1	4787.3	7110.4	8493.4	8358.6	7268.1	6903.6	6015.6
65°	1556.8	1522.1	1696.6	2171.0	3566.4	6639.1	9584.4	9592.5	8059.3	7094.3	5861.0
67°	1127.7	1114.1	1164.4	1484.2	2418.2	5580.9	9607.4	10032.8	8513.8	6973.8	5366.6
67.5°	1031.5	1042.0	1078.7	1338.9	2197.1	5078.5	9503.1	10006.7	8616.3	6901.1	5187.8
70°	781.8	763.8	803.6	947.0	1317.1	3203.7	8174.8	9177.7	8489.0	6180.1	4145.1
72.5°	575.0	573.2	628.4	774.4	1014.1	1706.5	6136.7	7358.8	6935.3	4705.9	2610.0
75°	388.1	405.5	493.7	647.1	919.1	1106.6	4183.6	5338.7	4814.6	2672.1	1066.9
77.5°	221.1	222.3	317.9	519.8	825.3	890.5	2479.0	3401.2	2548.6	888.6	316.7
80°	95.6	104.9	157.7	377.6	684.3	788.7	1421.5	1869.2	1030.9	188.2	102.5
82.5°	35.4	41.6	69.6	232.3	499.3	649.6	858.8	892.4	349.6	66.4	64.0
85°	0.0	1.2	25.5	108.7	260.2	290.0	573.8	529.1	154.6	31.7	41.6
87.5°	0.0	0.0	0.0	11.2	34.2	108.1	178.2	198.7	37.3	11.2	9.9
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°	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5	2463.5
2.5°	2444.9	2404.5	2303.3	2202.0	2126.9	2064.2	1969.8	1918.3	1890.9	1850.6	1853.1
5°	2383.4	2301.4	2123.2	1938.7	1789.7	1644.4	1470.5	1400.3	1341.4	1307.8	1285.5
7.5°	2292.1	2171.0	1907.1	1661.2	1432.0	1178.0	987.4	860.1	774.4	742.7	712.3
10°	2192.1	2031.3	1687.9	1346.9	1029.0	766.9	605.5	488.7	447.1	408.6	412.3
12.5°	2099.6	1904.0	1486.7	1063.1	721.0	487.5	380.0	332.2	318.6	314.2	314.2
15°	2023.8	1782.3	1270.6	799.2	494.3	350.2	304.3	291.2	286.3	285.0	285.0
17.5°	1943.1	1666.8	1075.6	590.6	359.6	293.1	277.6	268.9	267.0	265.8	265.8
20°	1871.1	1550.6	890.5	439.7	290.6	263.9	254.0	248.4	246.5	245.3	245.9
22.5°	1802.7	1447.5	716.6	332.2	255.9	240.3	230.4	224.8	221.1	218.0	218.6
25°	1741.9	1348.2	576.3	272.0	230.4	216.7	206.8	198.7	190.6	186.9	186.3
27.5°	1699.0	1261.2	449.0	232.9	207.4	192.5	180.1	170.2	159.6	154.0	152.8
30°	1663.6	1173.1	355.2	205.5	184.4	170.2	154.6	140.3	129.2	123.6	121.1
32.5°	1640.7	1089.2	280.1	183.2	165.2	147.8	130.4	116.1	103.7	98.1	96.9
35°	1636.9	1019.1	229.1	164.6	147.8	129.2	111.2	95.6	85.1	79.5	78.2
37.5°	1663.6	965.0	191.9	149.7	133.5	113.0	93.1	78.9	69.6	65.2	64.6
40°	1735.1	930.9	166.4	137.2	120.5	98.1	79.5	67.1	57.8	53.4	53.4
42.5°	1871.1	932.1	149.7	125.4	107.4	83.8	67.7	55.9	47.8	44.1	42.8
45°	2083.4	974.3	135.4	113.6	95.0	72.7	57.8	46.0	37.9	34.8	34.8
47.5°	2367.9	1058.2	123.0	101.8	83.8	62.1	49.1	37.3	30.4	27.3	27.3
50°	2739.8	1192.9	112.4	91.9	74.5	53.4	39.7	30.4	23.6	21.1	20.5
52.5°	3128.6	1359.4	100.0	83.2	64.0	45.3	32.3	23.6	18.0	16.1	15.5
55°	3557.7	1522.1	88.2	74.5	52.2	37.9	25.5	18.6	13.0	11.2	11.2
57.5°	3990.5	1681.7	73.9	62.1	41.0	27.9	19.9	13.7	8.7	6.8	6.8
60°	4356.9	1733.2	62.7	50.3	31.0	19.9	14.3	8.7	5.0	3.1	3.1
62.5°	4407.2	1559.3	52.8	38.5	22.4	13.7	7.5	5.0	1.9	1.2	1.2
65°	4134.0	1266.8	44.1	29.2	14.9	6.8	3.1	1.9	0.6	0.0	0.0
67°	3704.2	1027.1	36.0	21.7	10.6	4.3	1.9	0.6	0.0	0.0	0.0
67.5°	3594.3	979.3	34.8	20.5	9.3	3.7	1.2	0.6	0.0	0.0	0.0
70°	2820.6	733.4	24.8	12.4	5.6	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	1753.1	414.8	18.0	7.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0
75°	662.6	145.3	12.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	206.2	55.3	7.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.6	21.1	5.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.8	8.7	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.7	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.2	0.6	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)