

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: P453154

Luminaire Tested: **GALN-SA4A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11765 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

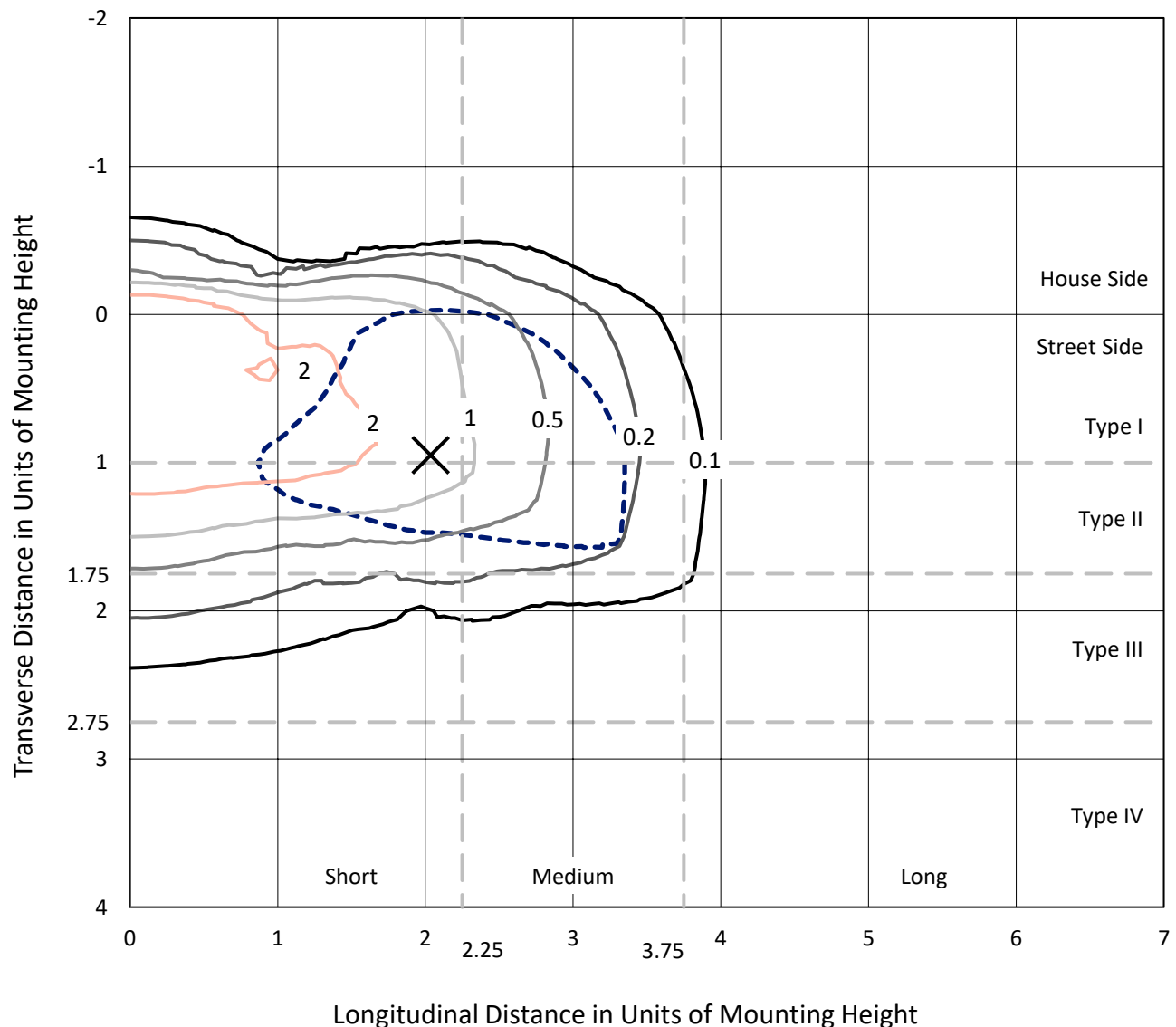


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

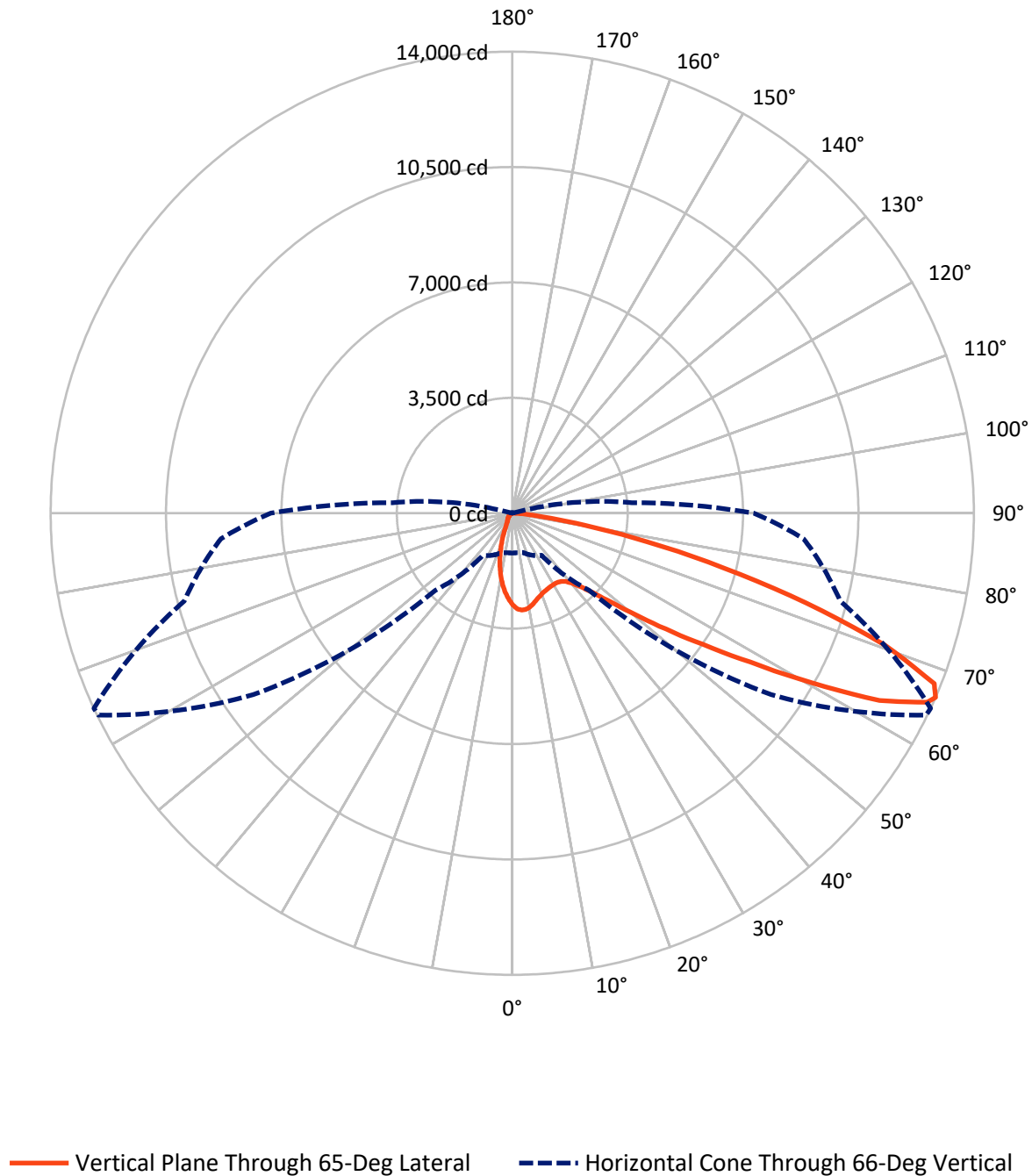


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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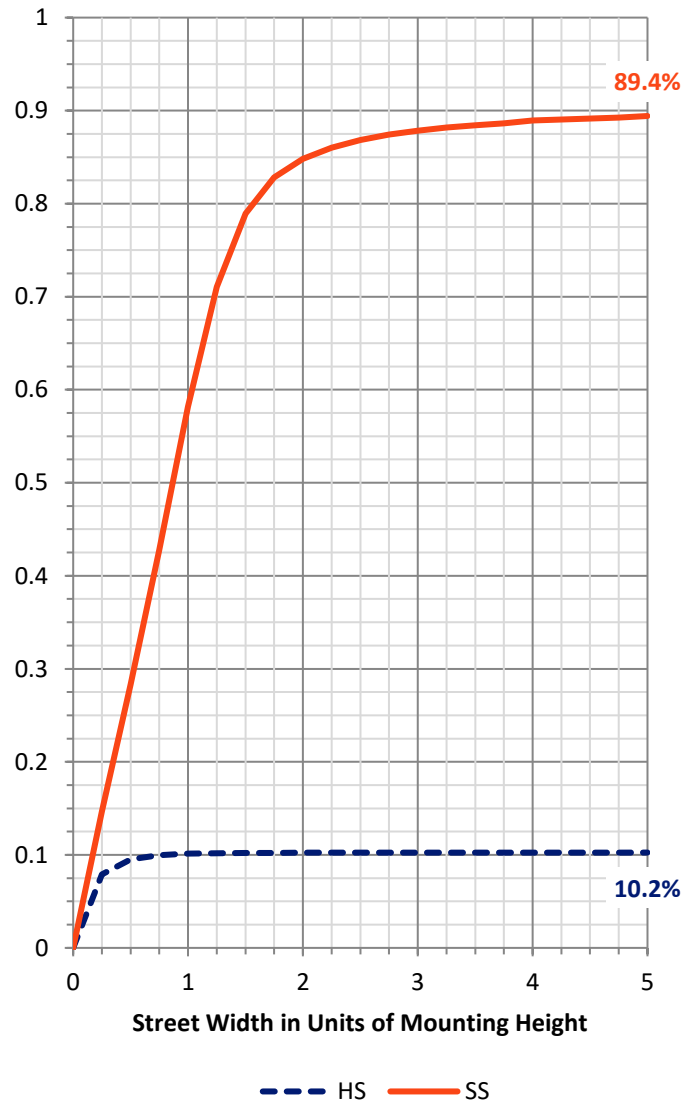
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.7	0.0	1216.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10548.3	0.0	10548.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	11765.0	0.0	11765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	1.9
10°-20°	497.2	4.2
20°-30°	712.2	6.1
30°-40°	1040.2	8.8
40°-50°	1744.2	14.8
50°-60°	2910.8	24.7
60°-70°	3089.7	26.3
70°-80°	1399.3	11.9
80°-90°	143.2	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°	11765.0	100.0
0°-180°	11765.0	100.0

Coefficient of Utilization



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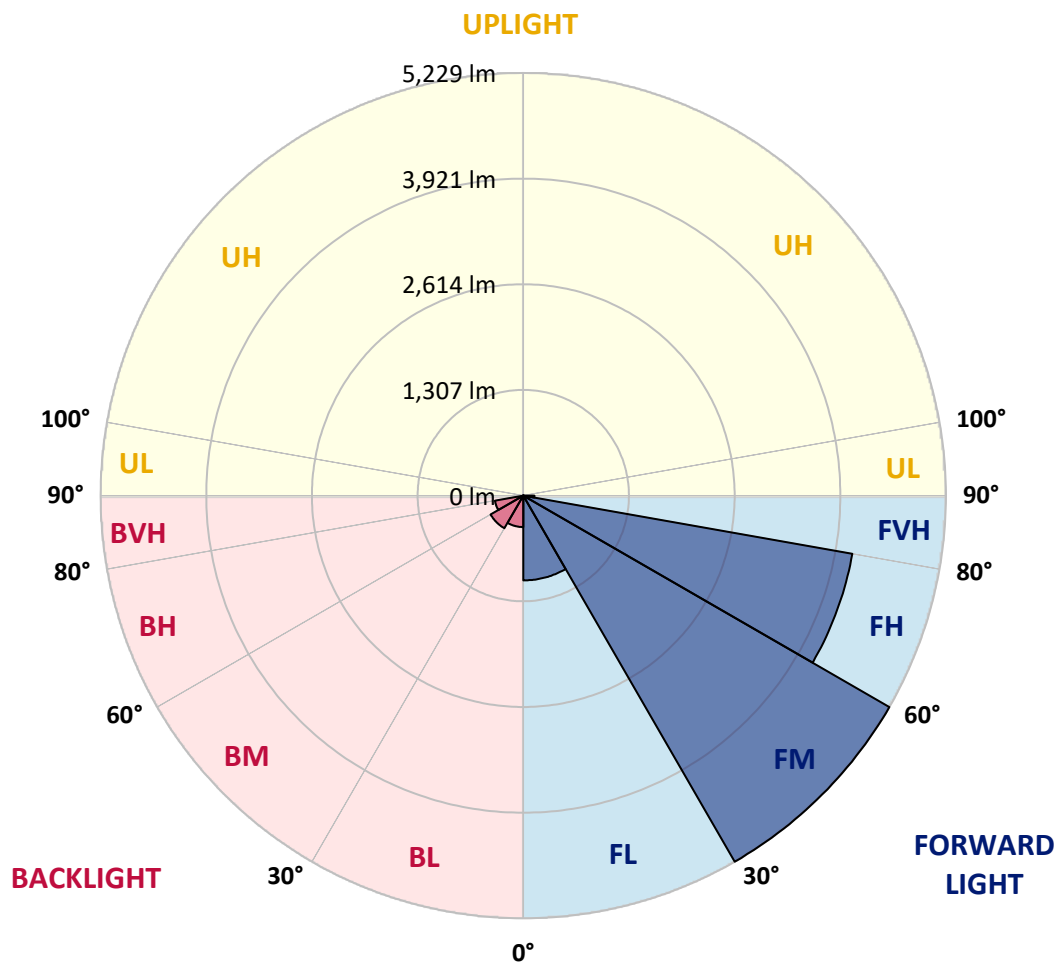
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.3	8.9			
FM	(30°-60°)	5228.6	44.4			
FH	(60°-80°)	4132.8	35.1			G2/5000
FVH	(80°-90°)	138.6	1.2			G2/225
BL	(0°-30°)	389.2	3.3	B1/500		
BM	(30°-60°)	466.6	4.0	B1/1000		
BH	(60°-80°)	356.3	3.0	B1/500		G1/500
BVH	(80°-90°)	4.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	2940.1	2943.3	2947.3	2952.8	2956.8	2944.9	2928.2	2909.1	2905.1	2864.6	2815.3
5°	2782.8	2787.5	2822.5	2841.6	2884.5	2923.4	2948.0	2951.2	2949.6	2911.5	2832.8
7.5°	2558.7	2572.2	2606.4	2639.7	2720.0	2793.9	2881.3	2942.5	2946.5	2936.1	2838.4
10°	2376.7	2385.5	2402.9	2468.9	2535.6	2648.5	2770.8	2886.1	2895.6	2936.9	2833.6
12.5°	2234.5	2247.2	2268.6	2319.5	2399.8	2506.2	2645.3	2800.2	2820.1	2921.8	2820.1
15°	2135.1	2141.5	2163.0	2213.0	2290.9	2389.4	2530.1	2710.5	2727.9	2902.0	2817.7
17.5°	2088.3	2095.4	2110.5	2150.2	2214.6	2306.0	2443.5	2638.1	2660.4	2889.2	2826.5
20°	2101.0	2107.3	2108.1	2128.8	2172.5	2249.6	2379.9	2570.6	2599.2	2881.3	2840.8
22.5°	2173.3	2174.1	2164.5	2155.0	2170.1	2225.7	2341.0	2527.7	2557.1	2879.7	2857.5
25°	2281.4	2283.7	2267.8	2234.5	2204.3	2232.9	2332.2	2499.9	2526.1	2875.7	2867.8
27.5°	2430.7	2430.0	2425.2	2369.6	2283.7	2264.7	2339.4	2484.8	2507.0	2864.6	2871.8
30°	2639.7	2633.4	2623.0	2560.3	2429.2	2341.7	2369.6	2475.2	2495.9	2848.7	2861.4
32.5°	2845.5	2869.4	2867.8	2808.2	2644.5	2479.2	2432.3	2488.0	2503.1	2838.4	2846.3
35°	3085.5	3084.7	3145.9	3123.7	2932.2	2654.8	2539.6	2530.1	2542.0	2845.5	2839.2
37.5°	3308.0	3328.7	3424.0	3447.1	3272.3	2902.8	2691.4	2620.7	2624.6	2894.0	2856.7
40°	3585.3	3625.1	3767.3	3844.4	3690.2	3270.7	2915.5	2786.7	2787.5	3013.2	2922.6
42.5°	3942.9	4005.7	4138.4	4267.1	4184.5	3706.1	3251.6	3049.8	3048.2	3223.0	3073.6
45°	4377.6	4421.3	4572.3	4776.5	4724.0	4314.0	3741.1	3457.4	3436.7	3567.1	3341.4
47.5°	4752.6	4812.2	4965.6	5198.4	5436.8	5056.2	4325.9	4017.6	4004.1	4114.5	3800.7
50°	4916.3	4968.8	5130.1	5456.7	6034.4	6030.4	5196.8	4835.3	4812.2	4871.8	4511.1
52.5°	4736.7	4786.0	4948.9	5355.7	6315.7	7217.5	6458.7	5861.1	5833.3	5757.0	5359.7
55°	4121.7	4162.2	4403.0	4870.2	6207.6	8009.0	8197.3	7128.5	7020.5	6724.1	6320.4
57.5°	3281.8	3261.1	3410.5	3953.2	5573.5	8274.4	9982.0	8707.5	8514.4	7560.0	7133.3
60°	2274.2	2337.8	2398.2	2755.7	4190.8	7814.3	11092.1	10692.4	10438.1	8382.5	7912.0
62.5°	1671.9	1714.0	1753.7	1919.0	2635.0	6239.4	11288.4	12731.4	12505.8	9255.7	8655.0
65°	1322.2	1325.4	1341.3	1504.2	1736.2	4057.3	10345.2	13881.2	13823.2	10096.5	8956.2
66°	1204.6	1205.4	1230.1	1404.9	1558.3	3304.0	9589.5	13968.6	14000.4	10298.3	8868.0
67.5°	1052.9	1049.7	1085.5	1262.7	1419.2	2382.3	8237.0	13614.2	13802.6	10453.2	8550.9
70°	816.1	812.1	855.8	1059.2	1307.2	1589.2	5474.9	11689.7	11993.2	10136.2	7565.6
72.5°	543.5	546.7	621.4	835.9	1247.6	1399.3	3293.7	8892.6	9321.7	8370.5	5951.7
75°	317.1	322.6	407.6	621.4	1083.1	1334.2	1864.2	6341.1	6615.2	5780.1	3707.7
77.5°	166.1	168.5	228.1	410.0	830.4	1238.8	1242.0	4051.0	4179.7	2809.0	1467.7
80°	88.2	85.8	122.4	247.1	571.3	1087.8	1007.6	2144.7	2229.7	834.4	371.1
82.5°	33.4	36.6	65.2	162.1	337.7	781.1	867.7	948.0	918.6	183.6	155.7
85°	6.4	7.9	27.8	96.1	170.0	326.6	639.7	464.9	430.7	69.1	89.8
87.5°	0.8	1.6	7.9	23.0	24.6	110.5	189.1	128.7	111.2	25.4	37.3
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°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	2791.5	2770.0	2698.5	2627.8	2555.5	2490.3	2445.8	2373.5	2355.3	2329.0	2313.9
5°	2785.9	2735.9	2598.4	2448.2	2308.4	2157.4	2042.2	1930.9	1871.3	1841.1	1830.0
7.5°	2770.0	2690.6	2476.0	2240.8	2016.7	1791.1	1594.8	1445.4	1349.3	1283.3	1238.8
10°	2738.3	2628.6	2333.8	2010.4	1671.9	1373.9	1125.2	936.1	789.9	743.8	745.4
12.5°	2705.7	2559.5	2174.9	1754.5	1335.0	959.1	695.3	545.9	476.0	452.9	448.2
15°	2675.5	2493.5	2019.1	1506.6	994.1	621.4	448.2	395.7	376.7	372.7	371.9
17.5°	2659.6	2432.3	1853.1	1222.9	693.7	421.9	359.2	344.9	339.3	335.3	333.7
20°	2646.1	2379.1	1694.1	957.5	474.4	345.7	321.8	308.3	298.8	294.8	292.4
22.5°	2636.6	2324.3	1529.6	741.4	363.1	306.7	285.3	267.8	254.3	249.5	246.3
25°	2622.3	2263.9	1363.6	541.9	305.9	272.6	247.9	227.3	209.8	201.0	199.4
27.5°	2601.6	2195.5	1181.6	401.3	273.3	242.4	212.2	186.7	169.3	159.7	160.5
30°	2568.2	2124.0	999.6	318.6	247.1	211.4	178.8	154.2	137.5	130.3	129.5
32.5°	2528.5	2037.4	832.8	273.3	223.3	183.6	149.4	127.9	115.2	109.7	108.9
35°	2491.1	1950.0	662.7	245.5	198.7	158.1	125.6	107.3	97.7	93.0	93.8
37.5°	2470.5	1872.1	516.5	223.3	178.8	135.9	108.1	92.2	83.4	79.5	78.7
40°	2484.0	1808.6	410.8	203.4	156.5	116.8	93.0	79.5	70.7	65.2	65.2
42.5°	2547.6	1780.7	331.4	184.4	135.9	100.9	81.1	68.3	58.8	53.2	54.0
45°	2741.4	1810.1	277.3	166.9	116.8	87.4	69.9	56.4	47.7	43.7	42.9
47.5°	3063.3	1920.6	240.0	148.6	100.1	74.7	58.8	46.9	38.1	35.0	34.2
50°	3625.9	2148.7	212.2	130.3	85.0	63.6	48.5	37.3	30.2	27.0	27.0
52.5°	4399.8	2646.1	192.3	109.7	71.5	54.0	39.7	30.2	23.8	21.5	20.7
55°	5208.7	3170.5	182.0	92.2	59.6	44.5	31.8	23.8	18.3	15.9	15.1
57.5°	5986.7	3582.2	170.0	74.7	47.7	34.2	24.6	18.3	12.7	11.1	10.3
60°	6732.8	3915.1	144.6	59.6	37.3	24.6	18.3	12.7	8.7	7.2	7.2
62.5°	7400.3	4109.0	113.6	47.7	28.6	17.5	11.9	9.5	6.4	4.8	4.8
65°	7478.2	3857.1	85.8	36.6	20.7	11.1	7.2	7.2	4.8	3.2	3.2
66°	7321.6	3643.3	75.5	33.4	18.3	9.5	6.4	5.6	4.0	2.4	2.4
67.5°	6972.0	3278.6	65.2	28.6	15.1	7.2	4.8	4.8	3.2	1.6	1.6
70°	6024.0	2677.9	51.7	21.5	11.1	5.6	3.2	3.2	2.4	1.6	1.6
72.5°	4591.3	1999.3	42.1	15.9	7.9	4.0	2.4	2.4	2.4	1.6	1.6
75°	2769.3	1076.7	32.6	11.9	7.2	3.2	1.6	2.4	3.2	2.4	1.6
77.5°	1020.3	366.3	25.4	9.5	5.6	3.2	1.6	1.6	3.2	2.4	2.4
80°	250.3	95.4	18.3	7.9	5.6	3.2	1.6	1.6	3.2	3.2	3.2
82.5°	116.0	40.5	12.7	7.2	5.6	3.2	1.6	1.6	2.4	3.2	3.2
85°	66.7	19.1	10.3	7.9	5.6	3.2	1.6	1.6	2.4	3.2	3.2
87.5°	27.0	9.5	9.5	7.9	6.4	4.0	1.6	1.6	1.6	2.4	2.4
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)