

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: P455257

Luminaire Tested: **GALN-SA6B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19686 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 243
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

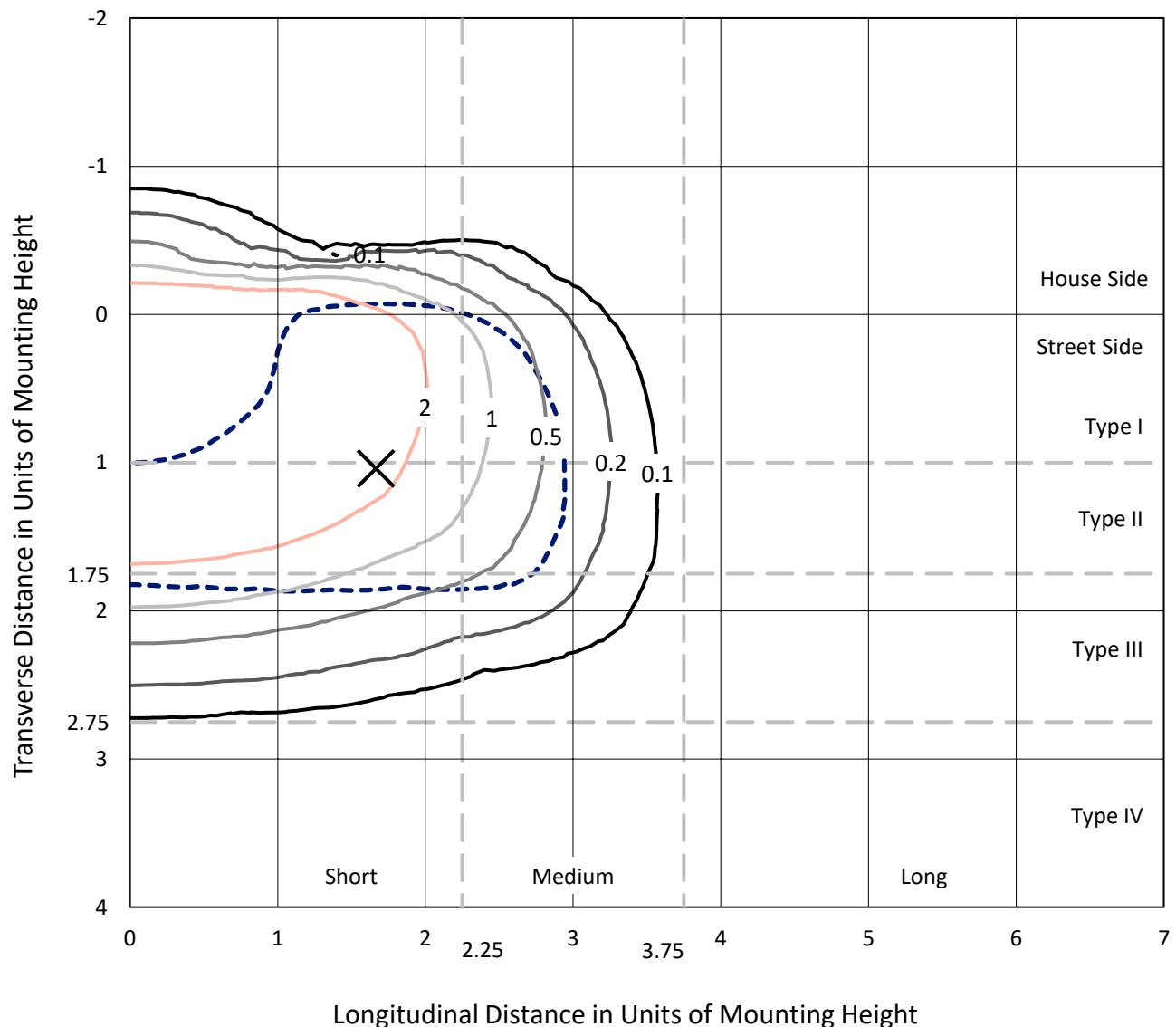


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

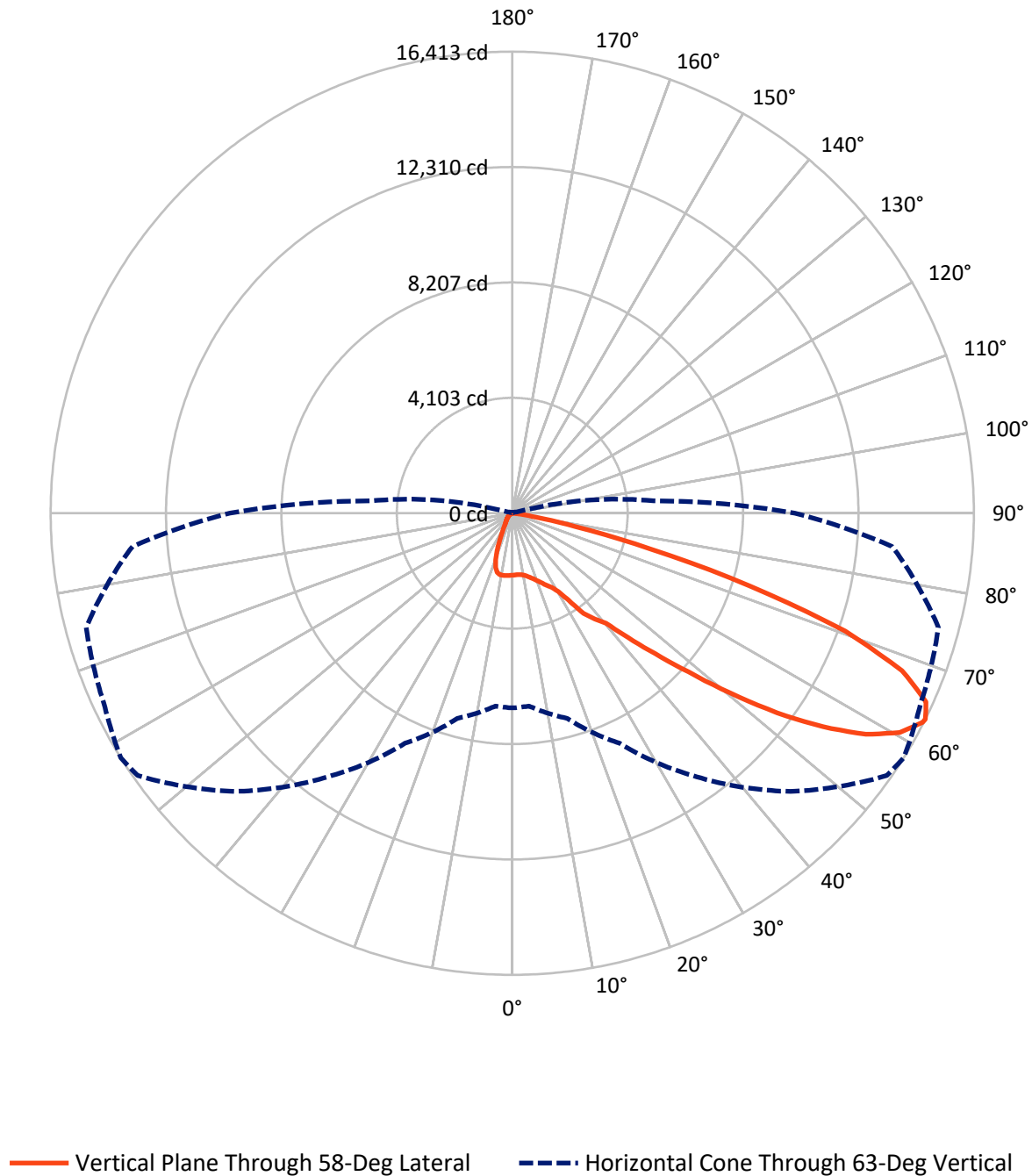


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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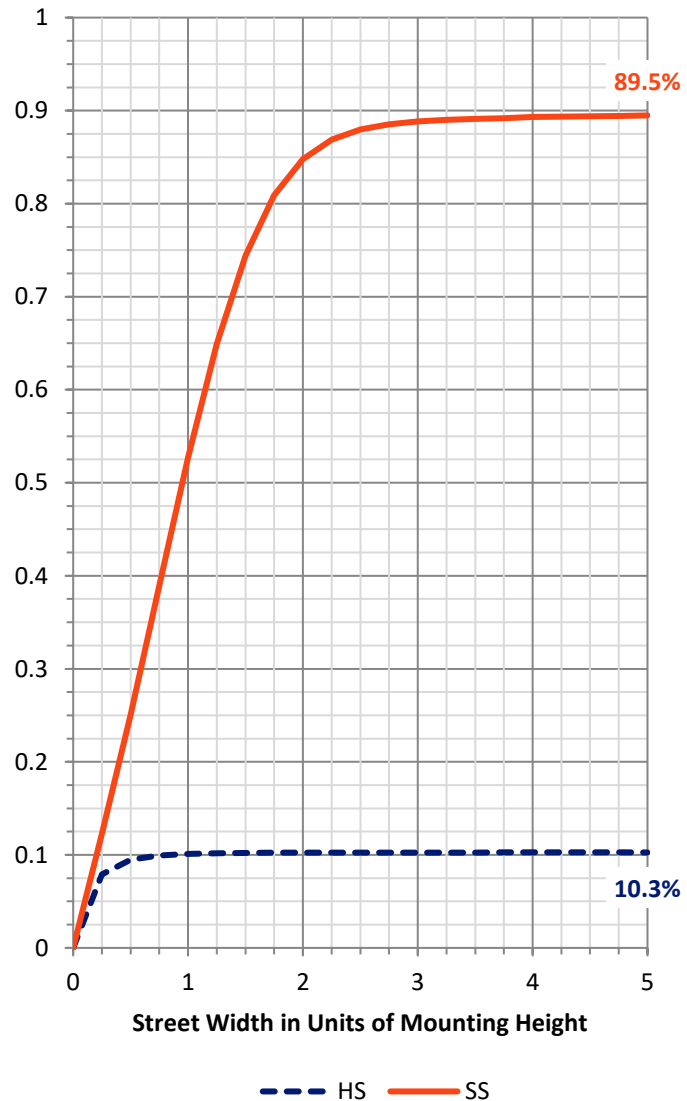
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2038.4	0.0	2038.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17647.7	0.0	17647.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	19686.0	0.0	19686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	1.0
10°-20°	561.9	2.9
20°-30°	975.3	5.0
30°-40°	1792.2	9.1
40°-50°	3373.7	17.1
50°-60°	5770.4	29.3
60°-70°	5525.2	28.1
70°-80°	1408.9	7.2
80°-90°	72.0	0.4
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°	19686.0	100.0
0°-180°	19686.0	100.0

Coefficient of Utilization



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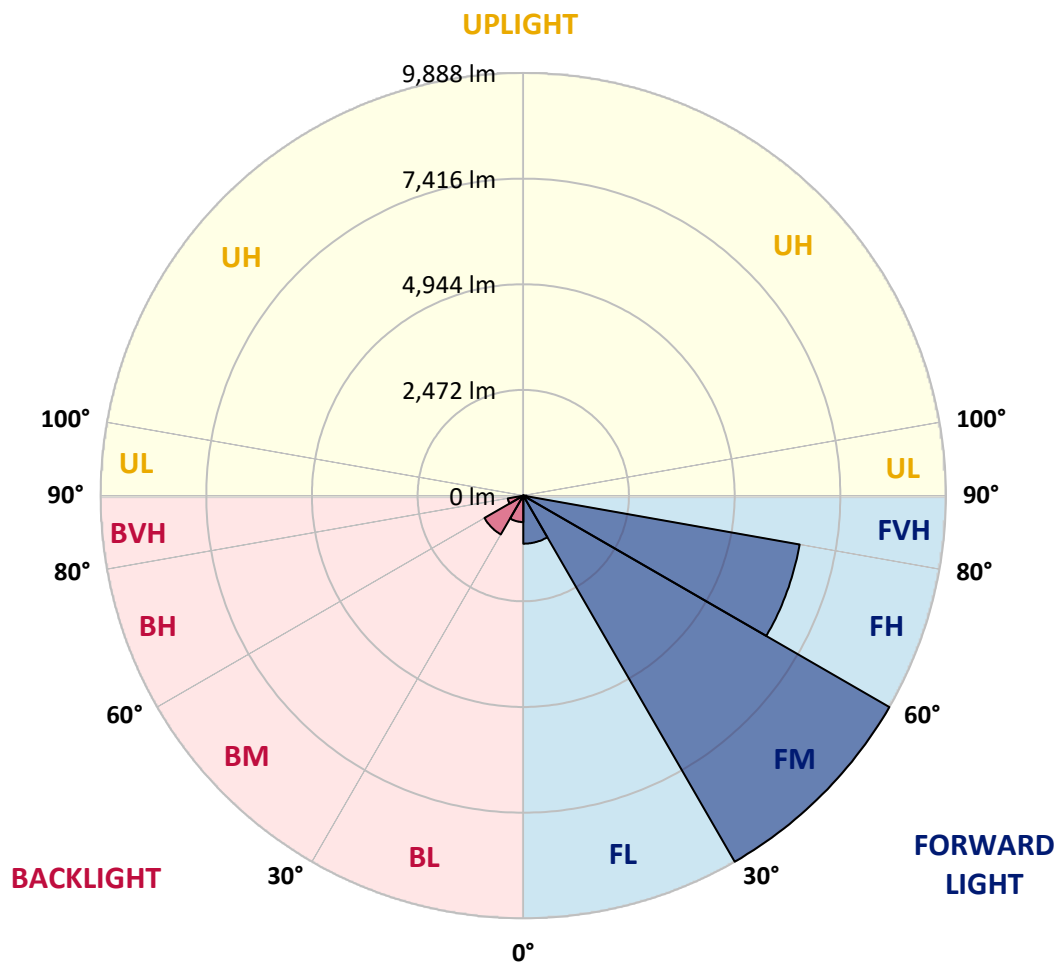
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.3	5.7			
FM	(30°-60°)	9887.9	50.2			
FH	(60°-80°)	6565.2	33.3			G3/7500
FVH	(80°-90°)	69.3	0.4			G1/100
BL	(0°-30°)	618.2	3.1	B2/1000		
BM	(30°-60°)	1048.4	5.3	B2/2500		
BH	(60°-80°)	369.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9
2.5°	2149.1	2156.5	2163.9	2166.9	2177.2	2187.6	2195.0	2193.5	2205.4	2211.3	2211.3
5°	2063.1	2063.1	2082.4	2100.2	2129.8	2159.5	2187.6	2193.5	2215.8	2236.5	2243.9
7.5°	1990.5	1994.9	2009.8	2042.4	2082.4	2134.3	2190.6	2203.9	2242.5	2288.4	2307.7
10°	1956.4	1959.4	1978.6	2012.7	2063.1	2134.3	2212.8	2238.0	2297.3	2369.9	2396.6
12.5°	1949.0	1953.4	1972.7	2011.2	2069.1	2155.0	2261.7	2288.4	2374.4	2467.7	2507.8
15°	1962.3	1965.3	1984.6	2026.1	2089.8	2192.1	2326.9	2364.0	2466.3	2574.5	2626.3
17.5°	2009.8	2006.8	2020.1	2054.2	2125.4	2238.0	2405.5	2450.0	2570.0	2718.2	2752.3
20°	2211.3	2192.1	2180.2	2150.6	2178.7	2303.2	2500.3	2565.6	2713.8	2865.0	2888.7
22.5°	2645.6	2602.6	2518.1	2402.5	2313.6	2392.2	2614.5	2690.1	2881.3	3029.5	3029.5
25°	3198.4	3143.6	3059.1	2807.1	2589.3	2538.9	2743.4	2838.3	3063.6	3213.3	3164.3
27.5°	3890.6	3847.6	3683.1	3389.6	3056.1	2795.3	2893.1	2980.6	3225.1	3405.9	3303.7
30°	4453.8	4433.0	4298.2	4035.8	3668.3	3287.4	3171.8	3229.6	3440.0	3649.0	3543.8
32.5°	4929.6	4929.6	4791.7	4547.2	4203.3	3865.4	3644.6	3686.1	3887.6	4129.2	3933.6
35°	5452.7	5435.0	5323.8	5091.1	4705.8	4407.8	4317.4	4373.8	4556.1	4735.4	4253.7
37.5°	6002.6	5996.7	5881.1	5655.8	5341.6	4966.6	4754.7	4769.5	4862.9	4972.5	4628.7
40°	6599.9	6608.8	6457.6	6318.3	6021.9	5638.0	5231.9	5138.5	5226.0	5535.7	5320.8
42.5°	7305.4	7284.7	7219.4	7029.7	6791.1	6561.4	6073.8	6039.7	6116.7	6448.7	6216.0
45°	8125.0	8154.7	8042.0	7936.8	7776.7	7585.5	7177.9	7118.7	7203.1	7718.9	7388.4
47.5°	8946.1	8918.0	8990.6	8971.3	9057.3	8915.0	8554.8	8433.3	8636.4	9125.5	8639.3
50°	9571.6	9602.7	9753.9	9974.7	10343.8	10423.8	10078.5	10037.0	10127.4	10441.6	9758.3
52.5°	9977.7	10081.4	10318.6	10886.2	11551.7	12069.0	11806.6	11784.4	11747.3	11831.8	10828.4
55°	10243.0	10348.2	10658.0	11493.9	12639.6	13480.0	13493.3	13398.4	13153.9	13093.1	11828.9
57.5°	10080.0	10100.7	10542.4	11659.9	13242.8	14486.3	14922.1	14827.2	14375.2	14145.4	12712.2
60°	9060.2	9103.2	9718.3	11031.5	12980.5	14815.3	15869.1	15826.2	15331.1	15071.8	13399.9
62.5°	7253.5	7378.0	8010.9	9475.2	11760.7	14261.0	16253.0	16374.5	15989.2	15632.0	13616.3
63°	6921.5	6881.5	7550.0	9021.7	11437.6	13986.8	16258.9	16413.1	16018.8	15685.4	13557.0
65°	5123.7	5243.8	5678.0	7114.2	9518.2	12710.7	15892.9	16165.6	15909.2	15449.7	12900.4
67.5°	2876.8	2870.9	3351.1	4655.4	6662.2	9970.3	14370.7	14947.3	14893.9	13863.8	10693.6
70°	1408.0	1430.3	1627.4	2412.9	3863.9	6878.6	11941.5	12564.0	12583.3	10889.2	7394.3
72.5°	637.3	647.7	788.5	1175.3	1986.1	3662.3	8228.8	8823.1	8713.4	6939.3	4083.3
75°	336.4	358.7	434.3	591.4	957.5	1510.3	4476.0	5051.1	4821.4	3170.3	1502.9
77.5°	249.0	256.4	294.9	376.5	512.8	588.4	1931.2	2297.3	2152.0	1147.2	498.0
80°	182.3	188.2	219.4	266.8	323.1	299.4	727.7	834.4	748.5	389.8	152.7
82.5°	111.2	112.6	160.1	198.6	203.1	167.5	240.1	257.9	269.7	219.4	83.0
85°	40.0	50.4	108.2	143.8	120.1	84.5	100.8	111.2	121.5	139.3	48.9
87.5°	4.4	5.9	51.9	69.7	34.1	31.1	37.1	41.5	44.5	51.9	23.7
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°	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9	2203.9
2.5°	2217.3	2223.2	2218.7	2211.3	2209.9	2205.4	2196.5	2196.5	2196.5	2199.5	2196.5
5°	2249.9	2254.3	2243.9	2229.1	2212.8	2192.1	2169.8	2156.5	2155.0	2152.0	2144.6
7.5°	2312.1	2318.0	2294.3	2258.8	2214.3	2163.9	2116.5	2072.0	2051.3	2035.0	2035.0
10°	2402.5	2408.5	2361.0	2297.3	2208.4	2106.1	1993.5	1891.2	1811.2	1774.1	1765.2
12.5°	2510.7	2513.7	2435.1	2324.0	2177.2	1980.1	1740.0	1516.2	1360.6	1289.5	1282.0
15°	2629.3	2608.5	2504.8	2334.4	2088.3	1720.8	1305.8	1031.6	870.0	822.6	840.4
17.5°	2749.3	2710.8	2558.2	2318.0	1888.2	1305.8	877.4	704.0	653.6	640.3	640.3
20°	2862.0	2808.6	2596.7	2246.9	1541.4	899.7	650.7	609.2	600.3	591.4	592.9
22.5°	2974.6	2893.1	2630.8	2088.3	1148.6	643.2	582.5	569.1	557.3	545.4	543.9
25°	3084.3	2971.7	2644.1	1794.9	782.6	552.8	532.1	514.3	490.6	477.2	474.3
27.5°	3198.4	3066.5	2635.2	1424.3	570.6	495.0	474.3	449.1	420.9	397.2	397.2
30°	3417.8	3247.3	2604.1	1024.2	480.2	435.7	409.1	369.0	337.9	314.2	312.7
32.5°	3717.2	3483.0	2497.4	720.3	426.9	383.9	343.9	299.4	266.8	249.0	249.0
35°	3984.0	3720.1	2297.3	530.6	383.9	333.5	284.6	241.6	216.4	204.5	200.1
37.5°	4390.1	4067.0	2021.6	431.3	342.4	289.0	238.6	198.6	177.9	169.0	169.0
40°	4999.2	4490.8	1683.7	377.9	302.4	246.0	198.6	167.5	151.2	140.8	140.8
42.5°	5755.1	5009.6	1341.3	339.4	265.3	211.9	166.0	142.3	127.5	120.1	118.6
45°	6706.6	5556.5	1033.0	303.8	235.7	180.8	140.8	120.1	105.2	100.8	102.3
47.5°	7699.7	6038.2	800.3	272.7	204.5	152.7	120.1	103.7	93.4	87.4	87.4
50°	8547.4	6370.2	607.7	237.1	180.8	128.9	105.2	93.4	84.5	81.5	80.0
52.5°	9255.9	6466.5	465.4	206.0	158.6	111.2	93.4	84.5	77.1	72.6	72.6
55°	9859.1	6382.0	364.6	173.4	133.4	96.3	83.0	75.6	66.7	62.2	60.8
57.5°	10211.9	6110.8	278.6	143.8	108.2	80.0	72.6	63.7	53.4	45.9	45.9
60°	10389.7	5716.6	213.4	118.6	83.0	63.7	59.3	47.4	37.1	31.1	29.6
62.5°	10176.3	5193.4	161.6	93.4	62.2	47.4	40.0	34.1	23.7	17.8	17.8
63°	10044.4	5042.2	155.6	88.9	57.8	44.5	37.1	31.1	20.7	16.3	14.8
65°	9156.6	4382.7	127.5	71.1	45.9	31.1	25.2	22.2	14.8	7.4	5.9
67.5°	7271.3	3352.6	100.8	53.4	32.6	22.2	14.8	13.3	4.4	0.0	0.0
70°	4916.2	2165.4	78.6	38.5	22.2	13.3	7.4	5.9	1.5	0.0	0.0
72.5°	2564.1	1110.1	60.8	28.2	13.3	8.9	4.4	1.5	0.0	0.0	0.0
75°	907.1	377.9	44.5	17.8	8.9	4.4	1.5	0.0	0.0	0.0	0.0
77.5°	274.2	140.8	28.2	13.3	5.9	3.0	0.0	0.0	0.0	0.0	0.0
80°	96.3	51.9	16.3	8.9	4.4	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	25.2	10.4	7.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	26.7	16.3	8.9	7.4	4.4	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	11.9	8.9	7.4	5.9	3.0	1.5	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)