

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: P453158

Luminaire Tested: **GALN-SA4A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11825 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

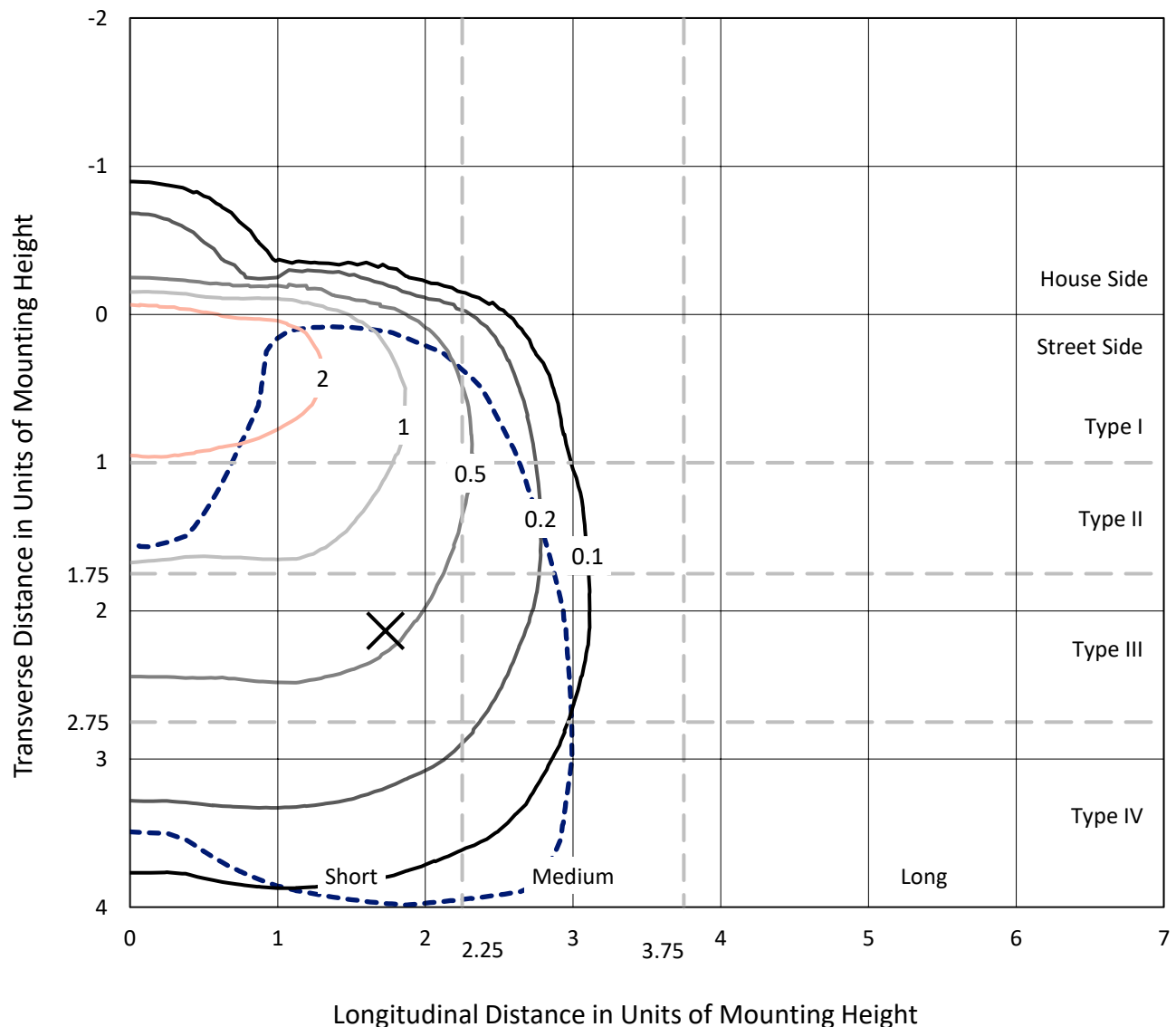


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Iso-Footcandle Lines of Horizontal Illumination

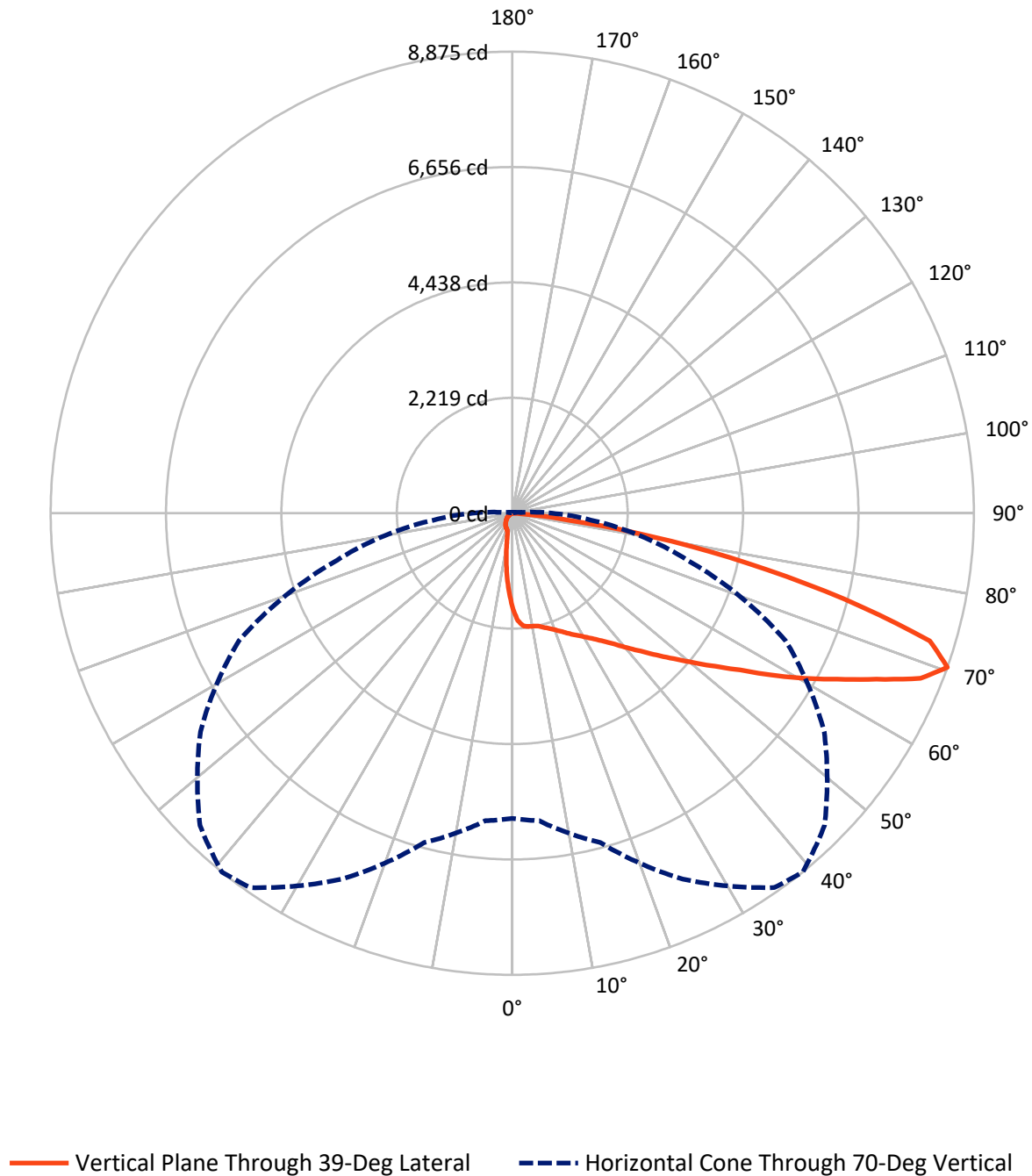
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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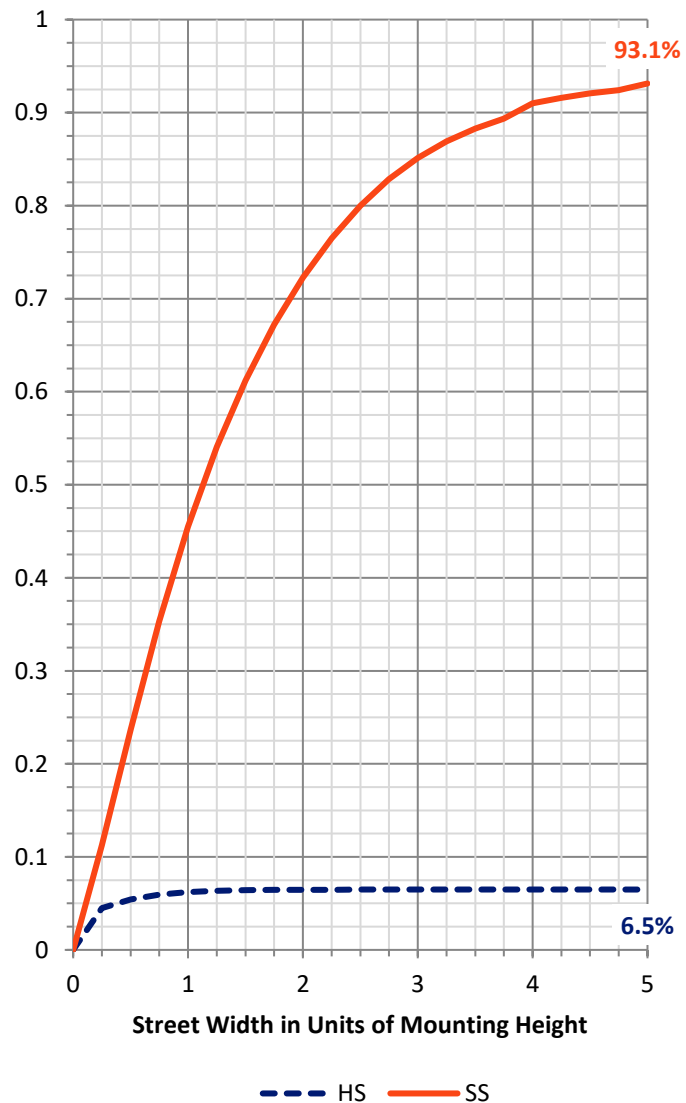
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.1	0.0	771.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	11054.0	0.0	11054.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	11825.0	0.0	11825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	1.3
10°-20°	409.0	3.5
20°-30°	685.1	5.8
30°-40°	1062.6	9.0
40°-50°	1683.8	14.2
50°-60°	2468.3	20.9
60°-70°	3163.7	26.8
70°-80°	1988.0	16.8
80°-90°	207.1	1.8
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°	11825.0	100.0
0°-180°	11825.0	100.0

Coefficient of Utilization



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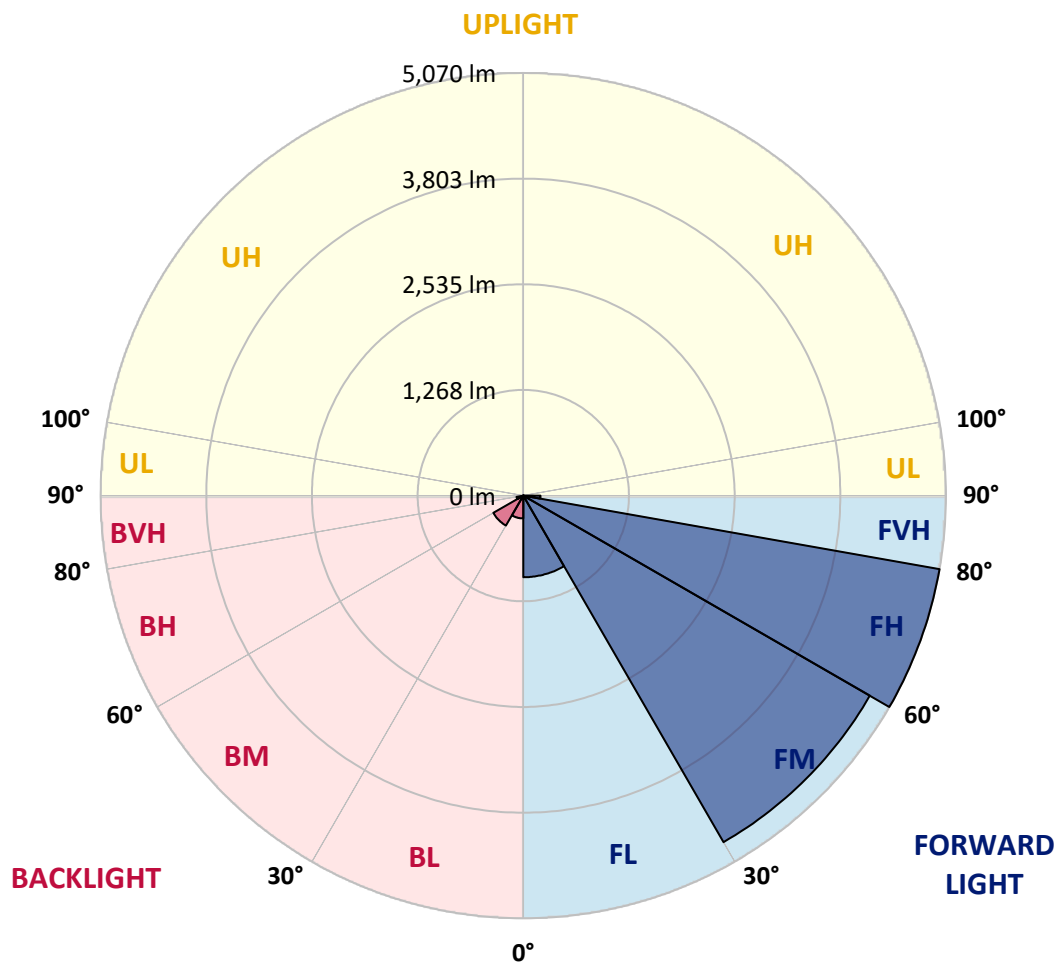
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.5	8.3			
FM	(30°-60°)	4799.7	40.6			
FH	(60°-80°)	5070.2	42.9			G3/7500
FVH	(80°-90°)	205.6	1.7			G2/225
BL	(0°-30°)	273.0	2.3	B1/500		
BM	(30°-60°)	415.0	3.5	B1/1000		
BH	(60°-80°)	81.5	0.7	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1
2.5°	2132.0	2124.8	2115.3	2104.2	2072.4	2066.8	2047.7	2007.2	1958.7	1919.0	1864.2
5°	2232.9	2236.9	2229.7	2209.8	2186.8	2173.3	2149.4	2086.7	2023.9	1943.6	1853.8
7.5°	2255.9	2263.9	2255.1	2236.1	2213.8	2199.5	2180.4	2126.4	2053.3	1961.9	1838.7
10°	2253.5	2263.1	2257.5	2240.0	2221.8	2208.2	2187.6	2144.7	2085.9	1989.7	1843.5
12.5°	2249.6	2262.3	2261.5	2252.7	2237.6	2227.3	2214.6	2176.5	2121.6	2030.3	1869.7
15°	2238.4	2254.3	2268.6	2275.8	2276.6	2276.6	2260.7	2220.2	2167.7	2083.5	1903.9
17.5°	2243.2	2261.5	2297.2	2317.9	2332.2	2330.6	2313.9	2270.2	2212.2	2138.3	1939.7
20°	2272.6	2297.2	2347.3	2388.6	2402.9	2398.2	2375.9	2325.1	2259.1	2185.2	1974.6
22.5°	2344.9	2367.2	2429.9	2478.4	2488.7	2476.0	2444.2	2375.1	2315.5	2236.1	2016.7
25°	2453.0	2479.2	2537.2	2573.8	2573.8	2566.6	2522.1	2441.1	2379.1	2306.8	2071.6
27.5°	2584.1	2606.4	2663.6	2696.1	2677.1	2656.4	2611.9	2514.2	2454.6	2395.8	2137.5
30°	2716.8	2731.1	2791.5	2805.8	2785.9	2759.7	2712.0	2614.3	2561.9	2516.6	2232.9
32.5°	2842.4	2873.3	2923.4	2920.2	2893.2	2880.5	2836.8	2732.7	2703.3	2698.5	2366.4
35°	2967.9	2991.7	3036.2	3047.4	3023.5	3021.1	2989.4	2912.3	2913.1	2944.1	2574.6
37.5°	3076.0	3097.4	3149.9	3174.5	3179.3	3191.2	3178.5	3127.6	3199.9	3285.0	2850.3
40°	3166.6	3196.8	3263.5	3306.4	3355.7	3399.4	3401.8	3412.9	3558.3	3704.5	3210.3
42.5°	3237.3	3279.4	3376.3	3455.8	3568.6	3624.3	3668.8	3729.9	3974.7	4193.2	3634.6
45°	3329.5	3377.9	3498.7	3623.5	3799.9	3891.2	3953.2	4116.9	4464.2	4762.2	4070.0
47.5°	3482.0	3507.4	3630.6	3812.6	4044.6	4174.9	4295.7	4543.6	4989.4	5256.4	4432.4
50°	3678.3	3695.0	3787.9	4040.6	4341.0	4512.6	4732.8	5024.4	5534.5	5666.4	4637.4
52.5°	3895.2	3900.8	3970.7	4291.7	4673.2	4889.3	5135.6	5495.6	5978.7	5958.8	4773.3
55°	4147.1	4139.2	4198.8	4564.3	5066.5	5313.6	5600.5	5977.9	6364.1	6166.2	4851.1
57.5°	4435.6	4414.1	4472.1	4925.8	5570.3	5865.9	6157.5	6394.3	6662.9	6340.3	4888.5
60°	4737.5	4694.6	4763.7	5331.9	6163.9	6444.4	6686.7	6750.3	6977.6	6478.5	4824.1
62.5°	4978.3	4979.1	5107.8	5764.2	6774.1	7019.7	7148.4	7205.6	7248.5	6448.3	4485.6
65°	5354.1	5366.9	5572.7	6364.1	7480.5	7693.5	7781.7	7595.8	7260.4	6073.3	3977.1
67.5°	5741.9	5782.4	6159.1	7190.5	8296.6	8468.3	8354.6	7671.3	6936.2	5217.5	3015.6
70°	5868.3	5935.0	6555.6	7759.5	8786.1	8875.1	8490.5	7319.2	5798.3	3488.4	1517.7
72.5°	5377.2	5485.3	6327.6	7552.1	8473.8	8396.7	7596.6	6138.4	3686.2	1324.6	463.3
75°	3791.9	3839.6	5258.8	6264.8	6815.4	6596.9	5778.5	3957.2	1516.1	371.9	158.9
77.5°	1957.9	1934.9	3127.6	4156.7	4860.7	4634.2	3784.0	2048.5	574.5	155.0	98.5
80°	1012.3	1029.0	1353.2	2178.1	2967.1	2730.3	2017.5	949.6	305.9	85.8	75.5
82.5°	567.4	532.4	777.9	951.2	1387.4	1087.8	774.0	672.2	133.5	51.7	71.5
85°	103.3	108.1	426.7	514.1	481.5	305.9	249.5	449.0	38.9	28.6	50.1
87.5°	1.6	1.6	82.6	147.8	93.8	42.9	78.7	64.4	7.9	11.1	8.7
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°	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1	1845.1
2.5°	1836.4	1806.2	1749.8	1694.1	1623.4	1565.4	1526.5	1485.9	1444.6	1447.8	1457.3
5°	1804.6	1752.1	1640.9	1523.3	1410.4	1308.7	1208.6	1118.8	1082.3	1048.9	1050.5
7.5°	1772.8	1698.9	1536.0	1351.6	1180.8	1007.6	882.0	778.7	723.9	682.6	670.7
10°	1758.5	1660.8	1439.8	1186.4	944.0	754.9	593.6	509.4	444.2	423.5	429.1
12.5°	1764.8	1641.7	1353.2	1037.0	748.5	526.0	413.2	370.3	356.0	353.6	352.0
15°	1776.8	1628.2	1268.2	871.7	549.9	391.0	347.2	339.3	337.7	336.1	336.9
17.5°	1792.7	1616.3	1177.6	716.7	421.9	341.7	329.0	325.0	324.2	324.2	324.2
20°	1808.6	1602.7	1076.7	578.5	352.0	322.6	314.7	312.3	311.5	311.5	310.7
22.5°	1826.8	1590.8	974.2	454.5	324.2	309.1	302.0	300.4	299.6	298.8	298.8
25°	1853.1	1575.7	865.3	371.9	306.7	296.4	289.2	287.7	286.9	283.7	284.5
27.5°	1888.0	1564.6	753.3	321.0	290.8	280.5	275.7	273.3	271.8	269.4	270.2
30°	1935.7	1555.1	634.1	293.2	272.6	263.8	259.0	257.5	255.9	253.5	253.5
32.5°	2018.3	1559.0	508.6	271.0	255.9	245.5	240.8	239.2	237.6	235.2	235.2
35°	2142.3	1582.1	406.8	251.9	236.0	225.7	220.9	220.9	218.5	215.3	214.5
37.5°	2344.9	1640.9	326.6	233.6	216.9	207.4	201.8	200.2	197.9	193.1	192.3
40°	2584.1	1732.3	274.9	215.3	199.4	189.9	185.1	180.4	174.0	169.3	168.5
42.5°	2884.5	1826.0	238.4	197.1	182.8	174.0	168.5	160.5	151.0	144.6	143.8
45°	3197.5	1911.9	213.8	180.4	166.9	159.7	153.4	140.6	128.7	120.8	120.0
47.5°	3431.2	1927.7	193.9	164.5	153.4	146.2	137.5	121.6	105.7	98.5	96.1
50°	3541.6	1850.7	173.2	148.6	139.9	131.9	120.8	102.5	85.0	76.3	74.7
52.5°	3580.6	1717.2	156.5	134.3	126.3	116.8	103.3	82.6	66.7	58.0	57.2
55°	3564.7	1548.7	141.4	120.8	110.5	99.3	85.8	66.0	49.3	42.1	40.5
57.5°	3481.2	1334.2	126.3	107.3	94.6	83.4	68.3	49.3	33.4	27.0	26.2
60°	3256.3	1041.7	111.2	92.2	80.3	68.3	54.0	35.0	20.7	15.1	15.1
62.5°	2876.5	773.2	96.9	77.1	67.5	54.8	38.1	22.2	11.1	7.9	7.2
65°	2403.7	570.5	81.1	65.2	56.4	42.9	27.0	13.5	5.6	2.4	1.6
67.5°	1677.4	352.0	67.5	53.2	46.1	31.0	16.7	5.6	2.4	0.0	0.0
70°	762.0	167.7	51.7	40.5	35.0	22.2	8.7	3.2	1.6	0.0	0.0
72.5°	236.8	88.2	36.6	29.4	23.8	14.3	4.8	2.4	1.6	0.0	0.0
75°	109.7	56.4	23.0	15.9	13.5	7.2	3.2	1.6	0.8	0.0	0.0
77.5°	81.8	43.7	13.5	8.7	7.2	4.8	2.4	1.6	0.8	0.0	0.0
80°	71.5	22.2	7.9	5.6	4.0	3.2	1.6	0.8	0.0	0.0	0.0
82.5°	64.4	11.1	4.8	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
85°	35.0	6.4	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	2.4	1.6	1.6	0.8	0.8	0.8	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)