

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: P451311

Luminaire Tested: **GALN-SA2A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5851 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): 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



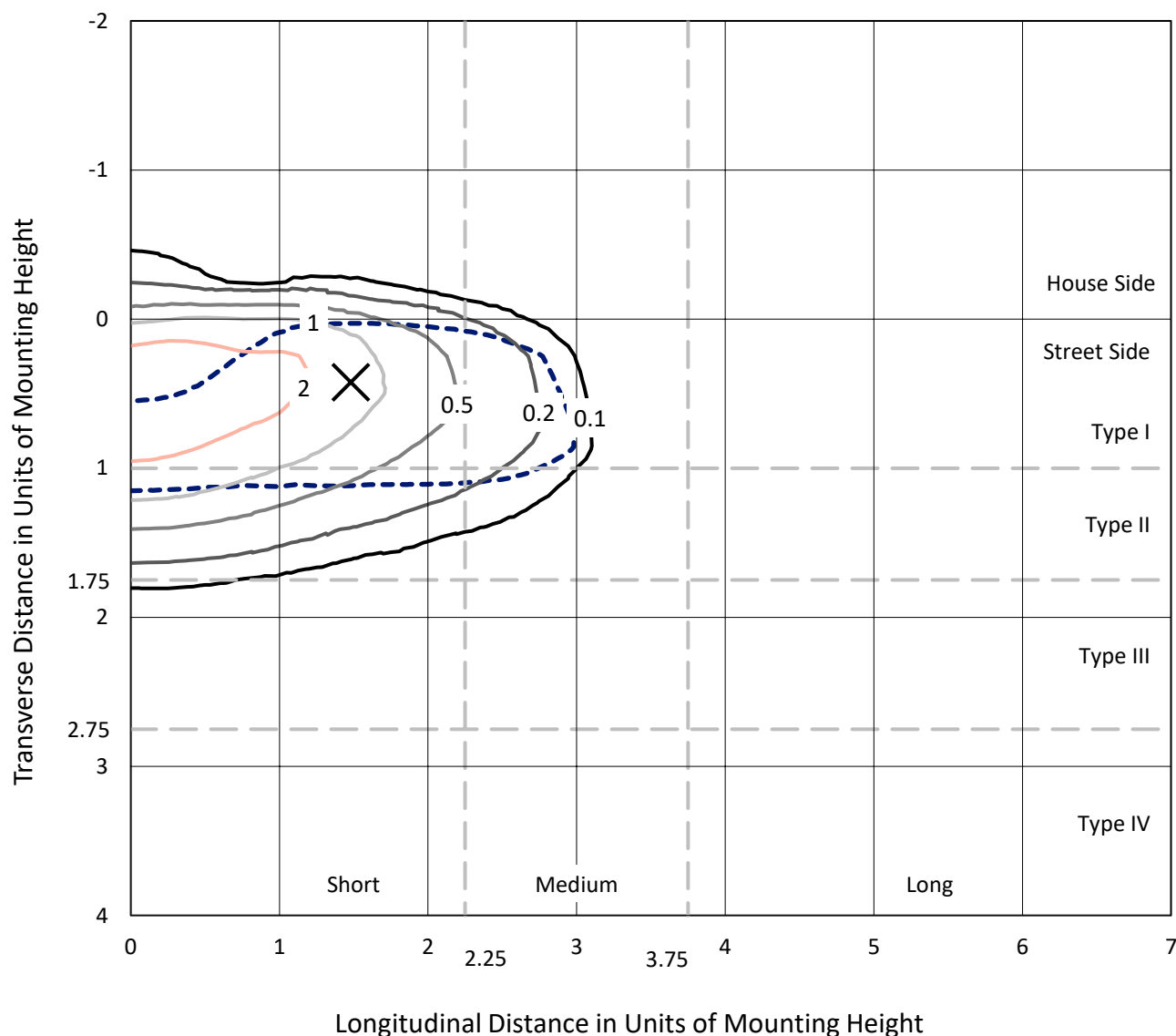
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

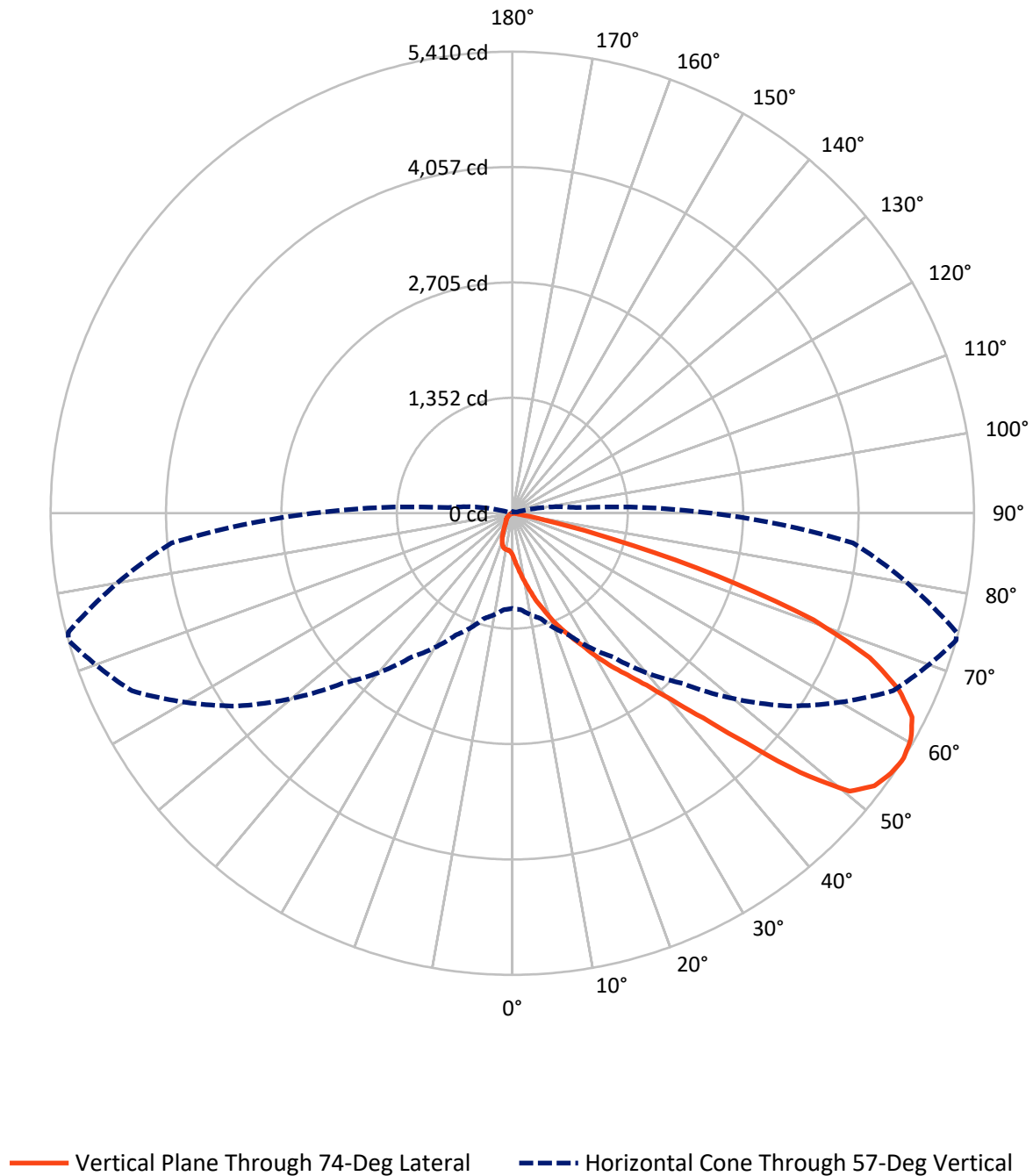


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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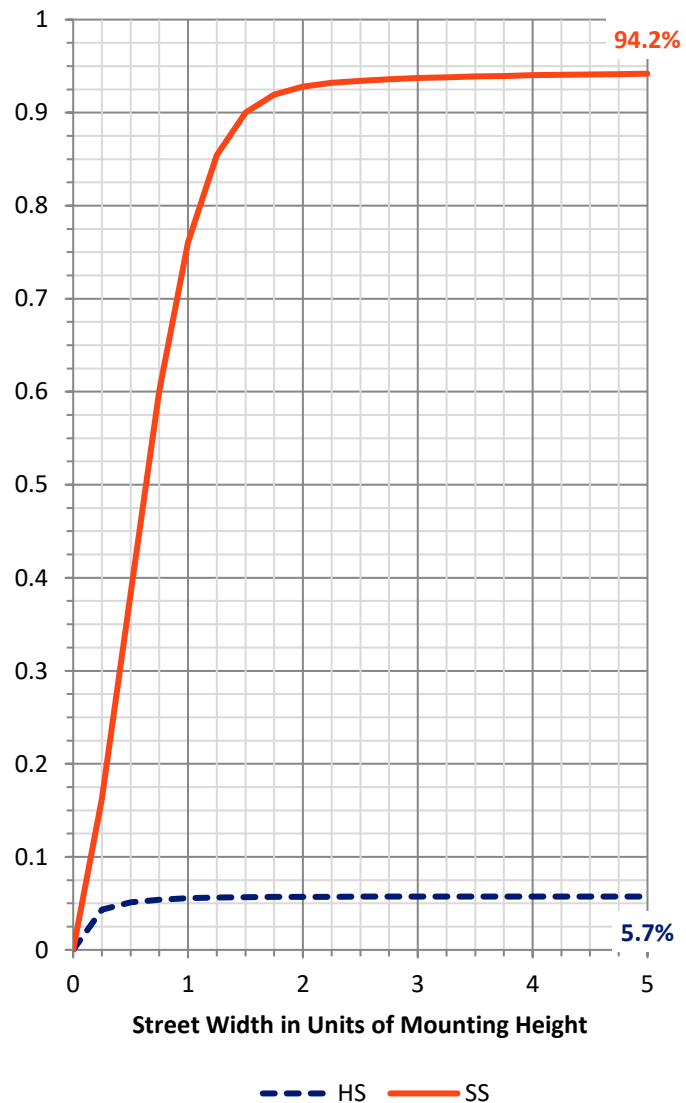
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.5	0.0	337.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5513.5	0.0	5513.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	5851.0	0.0	5851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.0
10°-20°	233.1	4.0
20°-30°	498.8	8.5
30°-40°	916.9	15.7
40°-50°	1405.6	24.0
50°-60°	1486.9	25.4
60°-70°	971.0	16.6
70°-80°	265.3	4.5
80°-90°	14.3	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°	5851.0	100.0
0°-180°	5851.0	100.0

Coefficient of Utilization



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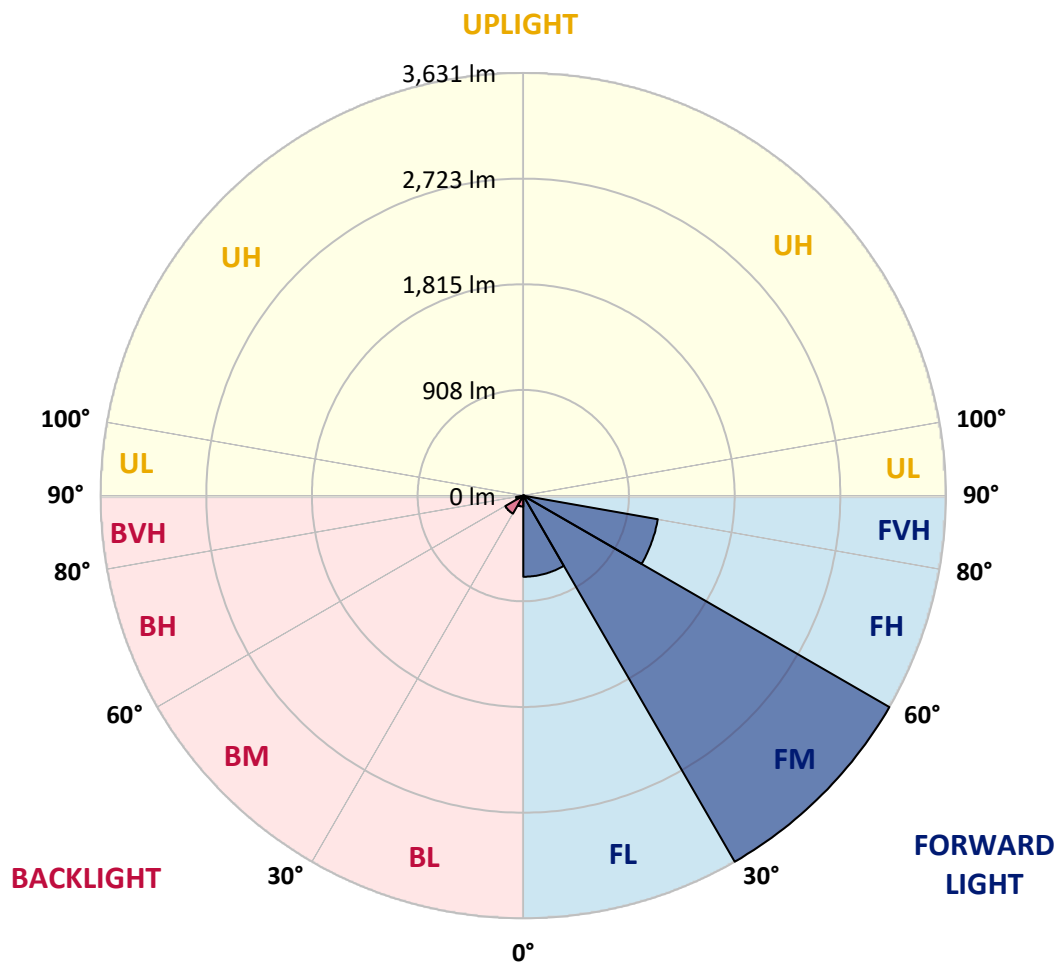
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.8	11.9			
FM	(30°-60°)	3630.7	62.1			
FH	(60°-80°)	1172.9	20.0			G1/1800
FVH	(80°-90°)	13.1	0.2			G1/100
BL	(0°-30°)	94.3	1.6	B0/110		
BM	(30°-60°)	178.7	3.1	B0/220		
BH	(60°-80°)	63.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	717.0	710.6	697.7	693.2	674.2	644.7	618.9	584.1	556.7	553.8	520.7
5°	960.2	945.7	939.6	910.5	864.9	822.1	748.6	692.8	628.6	623.7	557.1
7.5°	1194.5	1174.3	1168.3	1140.8	1087.5	1020.0	924.7	823.3	721.5	712.2	606.0
10°	1364.2	1367.0	1356.1	1337.9	1294.7	1226.0	1108.5	969.9	824.9	813.2	660.9
12.5°	1485.8	1485.4	1487.4	1487.0	1464.0	1411.9	1288.3	1128.7	938.8	915.8	723.9
15°	1565.0	1566.2	1572.2	1593.3	1595.7	1563.4	1460.3	1280.6	1070.9	1042.2	792.2
17.5°	1645.0	1653.4	1663.1	1682.9	1700.7	1687.8	1615.1	1438.9	1190.5	1169.1	865.3
20°	1777.1	1788.8	1783.1	1795.2	1804.5	1805.7	1749.6	1585.2	1335.5	1299.6	948.9
22.5°	1988.3	1987.9	1973.4	1951.6	1933.4	1932.6	1881.7	1735.4	1467.2	1432.5	1032.9
25°	2255.4	2256.6	2228.3	2166.1	2120.8	2065.5	2006.9	1867.1	1608.2	1565.4	1121.4
27.5°	2561.6	2553.9	2511.1	2425.4	2335.7	2241.2	2156.8	2020.2	1757.7	1722.1	1222.8
30°	2836.7	2833.8	2783.7	2679.1	2561.2	2466.2	2343.8	2212.1	1951.2	1907.5	1336.3
32.5°	3092.8	3096.8	3027.3	2919.1	2805.2	2695.7	2566.4	2395.5	2141.0	2079.2	1459.9
35°	3292.7	3296.8	3224.9	3134.8	3017.6	2926.8	2803.5	2591.1	2328.5	2276.4	1602.1
37.5°	3399.4	3404.6	3363.0	3295.2	3222.1	3176.4	3061.7	2842.7	2556.3	2524.8	1770.2
40°	3419.6	3425.7	3407.5	3389.3	3385.3	3418.0	3384.4	3139.2	2872.2	2822.9	2020.6
42.5°	3359.0	3367.1	3375.2	3415.6	3498.0	3617.9	3734.7	3541.6	3279.0	3212.8	2326.9
45°	3199.8	3199.0	3230.9	3335.6	3520.2	3776.3	4100.7	4045.3	3833.3	3754.5	2759.5
47.5°	2927.6	2923.5	2992.6	3141.7	3429.3	3805.4	4399.2	4656.9	4540.6	4467.9	3224.5
50°	2512.7	2532.5	2641.1	2849.2	3203.5	3717.3	4491.3	5058.1	5121.1	5043.9	3600.2
52.5°	2026.7	2025.9	2196.4	2478.7	2869.0	3523.4	4427.1	5130.8	5309.8	5250.8	3785.2
55°	1499.9	1510.4	1687.8	1972.6	2434.7	3169.5	4217.4	5056.1	5381.7	5340.1	3907.2
57°	1115.8	1134.3	1276.5	1577.9	2056.6	2819.3	3938.3	4922.4	5409.9	5387.3	4008.6
57.5°	1041.4	1042.2	1180.8	1454.7	1945.9	2684.8	3858.3	4866.6	5409.1	5396.6	4025.1
60°	641.1	661.3	757.0	983.3	1424.4	2095.4	3322.2	4546.3	5367.1	5385.3	4095.8
62.5°	383.8	392.3	454.5	592.6	918.2	1529.4	2718.7	4136.2	5257.6	5313.0	4091.0
65°	246.8	248.8	277.1	358.7	574.0	1033.8	2095.0	3594.5	4974.5	5076.3	3931.0
67.5°	190.7	193.9	205.2	235.5	332.9	643.9	1481.8	3016.4	4516.4	4647.7	3543.2
70°	169.3	170.9	174.9	184.6	220.2	363.6	921.9	2356.3	3745.2	3782.4	2772.8
72.5°	138.2	142.6	155.1	158.4	174.5	227.0	513.0	1581.5	2516.3	2525.6	1551.2
75°	107.1	107.9	126.4	135.7	147.0	156.3	229.1	797.4	1208.7	1144.0	597.9
77.5°	80.0	83.6	92.1	103.8	120.0	111.9	102.6	300.6	375.3	368.4	173.7
80°	51.3	53.3	64.2	78.0	93.3	73.1	57.8	88.1	82.4	84.8	41.6
82.5°	25.9	26.3	41.2	63.4	59.4	36.8	36.4	36.0	30.7	30.3	19.4
85°	2.8	6.1	26.7	36.4	26.7	12.1	17.0	16.6	16.2	16.6	11.3
87.5°	0.4	0.4	4.4	5.3	3.6	4.0	4.8	5.3	6.5	6.1	4.8
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°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	504.6	488.4	458.5	429.8	408.4	394.7	376.9	370.4	361.1	359.9	355.5
5°	526.4	495.7	443.6	402.4	369.2	344.2	322.4	304.2	289.6	286.4	288.0
7.5°	557.5	511.8	439.1	383.0	336.9	294.1	259.3	237.9	222.6	216.9	217.7
10°	592.6	533.2	438.3	362.4	292.1	239.6	201.6	182.6	173.7	170.5	166.8
12.5°	634.2	557.9	436.3	330.4	242.8	191.1	164.0	152.7	144.2	141.8	141.8
15°	681.1	584.1	426.6	290.9	197.1	158.0	139.8	130.9	128.1	125.6	125.6
17.5°	730.0	610.0	406.4	242.0	163.6	135.3	124.0	118.8	114.7	111.9	111.9
20°	785.7	635.4	374.1	198.8	138.2	120.8	111.9	105.8	102.6	100.2	99.4
22.5°	838.6	656.0	332.9	163.2	120.4	108.7	100.6	94.1	90.9	89.7	89.7
25°	893.6	668.6	283.2	134.9	109.9	98.6	89.7	84.4	81.6	80.8	80.4
27.5°	946.9	675.8	239.6	118.0	100.2	89.3	80.8	76.8	73.9	73.1	73.5
30°	1011.5	677.1	197.1	105.8	91.7	80.4	72.7	69.1	67.5	66.7	66.3
32.5°	1077.0	675.4	165.6	98.6	83.6	72.7	66.3	63.4	62.2	61.0	61.0
35°	1150.5	667.0	141.0	91.3	75.9	66.3	60.6	58.2	56.6	55.3	54.9
37.5°	1241.8	662.5	126.8	83.2	69.1	60.2	54.9	52.5	51.3	49.7	49.3
40°	1385.6	682.3	122.4	75.9	62.2	54.5	49.7	46.9	45.2	43.6	43.2
42.5°	1565.0	717.0	115.1	68.7	56.2	49.3	44.4	41.2	38.4	36.4	35.5
45°	1797.3	762.7	103.8	61.0	50.9	43.6	39.2	35.1	31.5	29.9	29.5
47.5°	2040.8	806.7	93.7	54.9	45.2	38.8	33.9	29.5	26.3	25.0	24.6
50°	2190.3	815.6	87.3	48.1	39.6	33.5	28.7	24.6	22.6	21.4	21.4
52.5°	2258.6	801.5	78.4	42.0	34.3	29.5	24.6	21.4	20.2	19.4	19.0
55°	2306.3	779.7	66.7	36.4	29.5	25.0	21.8	19.4	17.8	17.0	16.6
57°	2334.1	750.2	57.8	31.9	25.5	21.8	19.4	17.4	15.8	14.1	14.1
57.5°	2335.3	738.9	55.3	31.5	24.2	21.0	19.0	17.0	14.9	13.3	12.9
60°	2299.4	661.3	44.4	26.7	19.4	17.8	15.8	13.3	10.5	8.9	8.5
62.5°	2183.9	562.7	36.8	22.6	15.8	13.7	11.3	10.1	7.3	5.3	5.3
65°	2008.9	456.5	31.5	18.2	12.9	10.1	7.7	7.3	4.4	2.4	2.0
67.5°	1756.1	355.5	26.7	14.9	10.9	7.3	5.3	4.8	2.4	0.8	0.0
70°	1337.9	242.4	22.2	12.1	8.1	5.3	3.6	2.8	1.6	0.4	0.0
72.5°	771.2	133.3	18.6	9.3	6.1	4.0	2.8	1.6	1.6	0.0	0.0
75°	275.5	57.4	14.1	6.9	4.8	3.2	2.0	0.8	1.2	0.4	0.0
77.5°	87.7	30.7	9.3	5.3	4.0	2.4	1.6	0.8	0.8	0.4	0.0
80°	25.9	16.2	5.7	4.4	2.8	2.0	1.2	0.4	0.8	0.4	0.0
82.5°	14.1	8.1	4.4	3.2	2.8	1.6	1.2	0.4	0.4	0.4	0.0
85°	7.3	4.8	3.6	3.2	2.8	1.6	1.2	0.4	0.0	0.4	0.4
87.5°	4.0	3.6	3.6	3.2	2.8	2.0	1.2	0.4	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)