

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: P457815

Luminaire Tested: **GALN-SA9A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23832 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

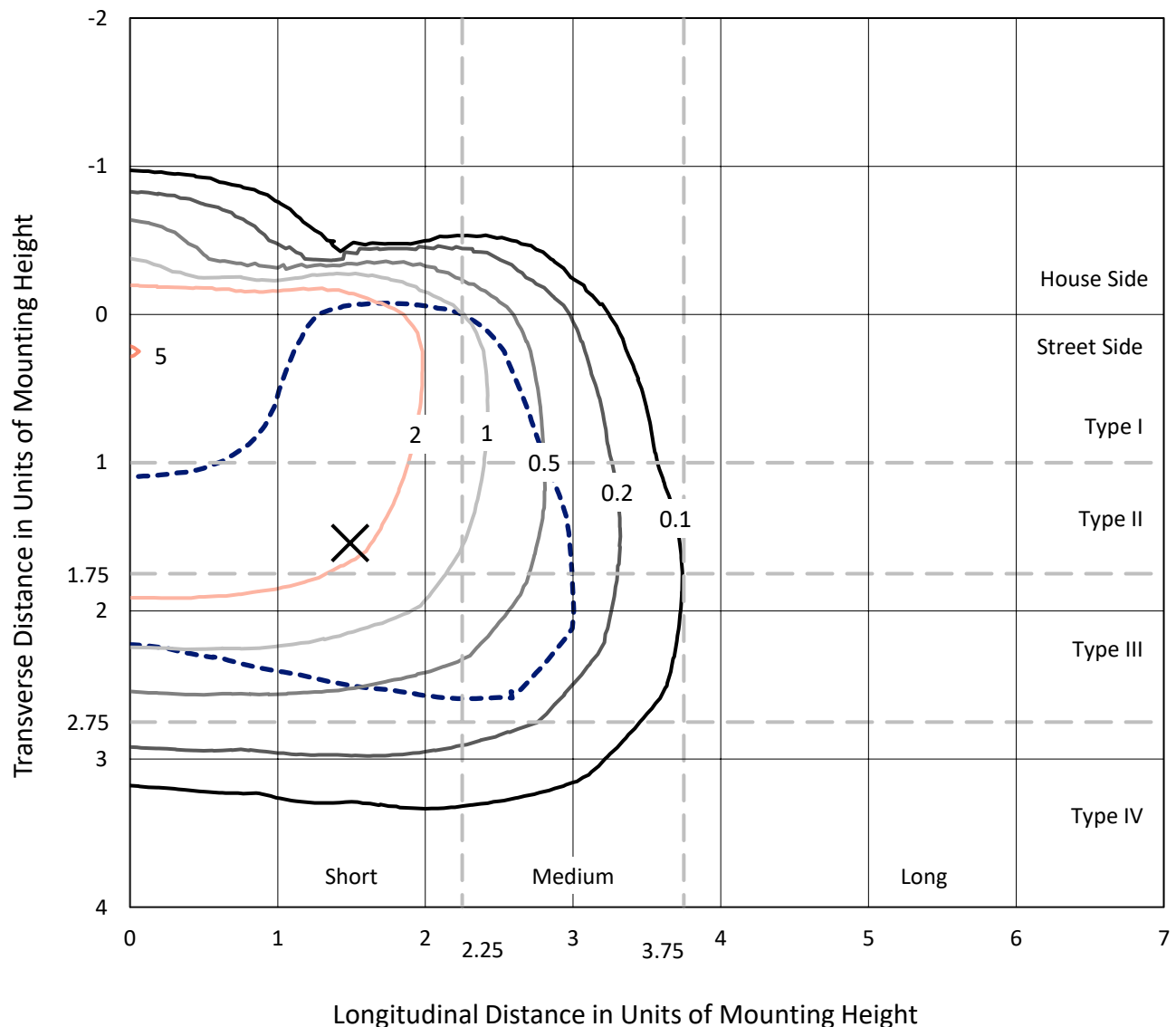
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

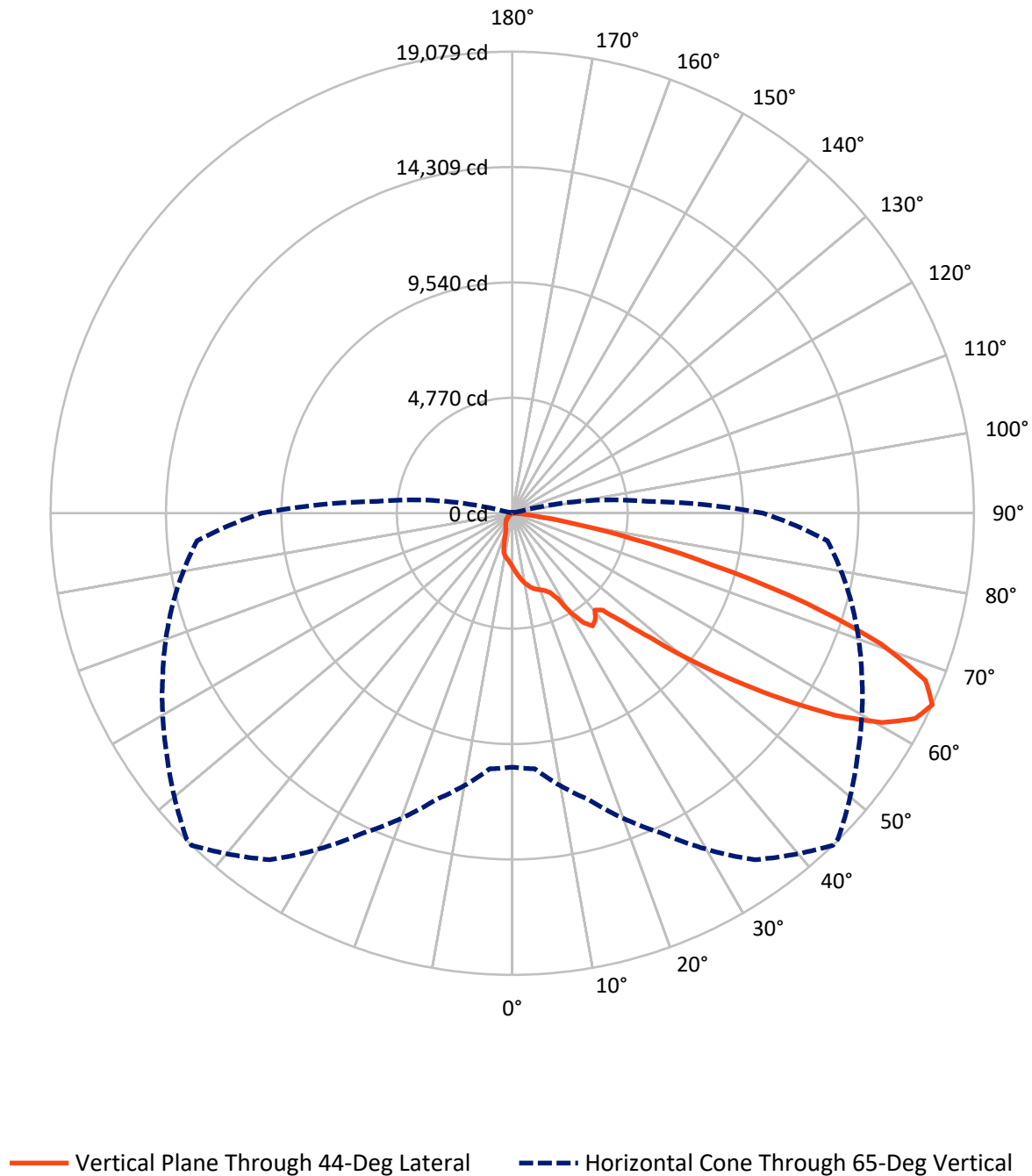
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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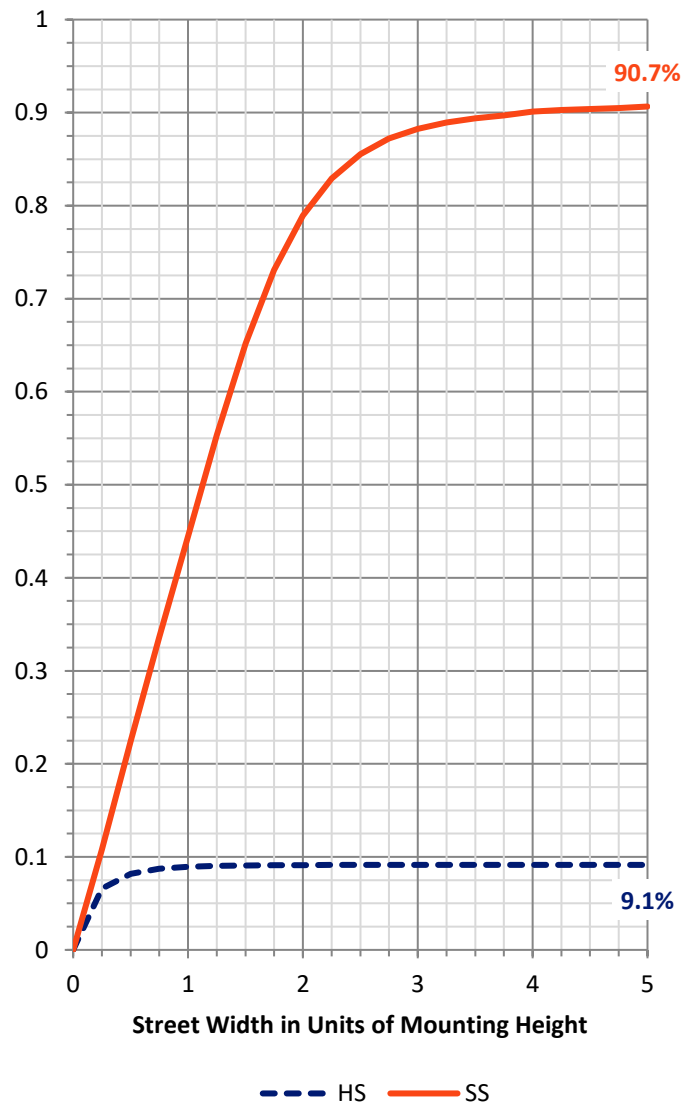
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.7	0.0	2195.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21636.2	0.0	21636.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	23832.0	0.0	23832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	0.9
10°-20°	664.0	2.8
20°-30°	1125.8	4.7
30°-40°	1871.9	7.9
40°-50°	3268.4	13.7
50°-60°	6385.2	26.8
60°-70°	7408.3	31.1
70°-80°	2697.7	11.3
80°-90°	190.1	0.8
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°	23832.0	100.0
0°-180°	23832.0	100.0

Coefficient of Utilization



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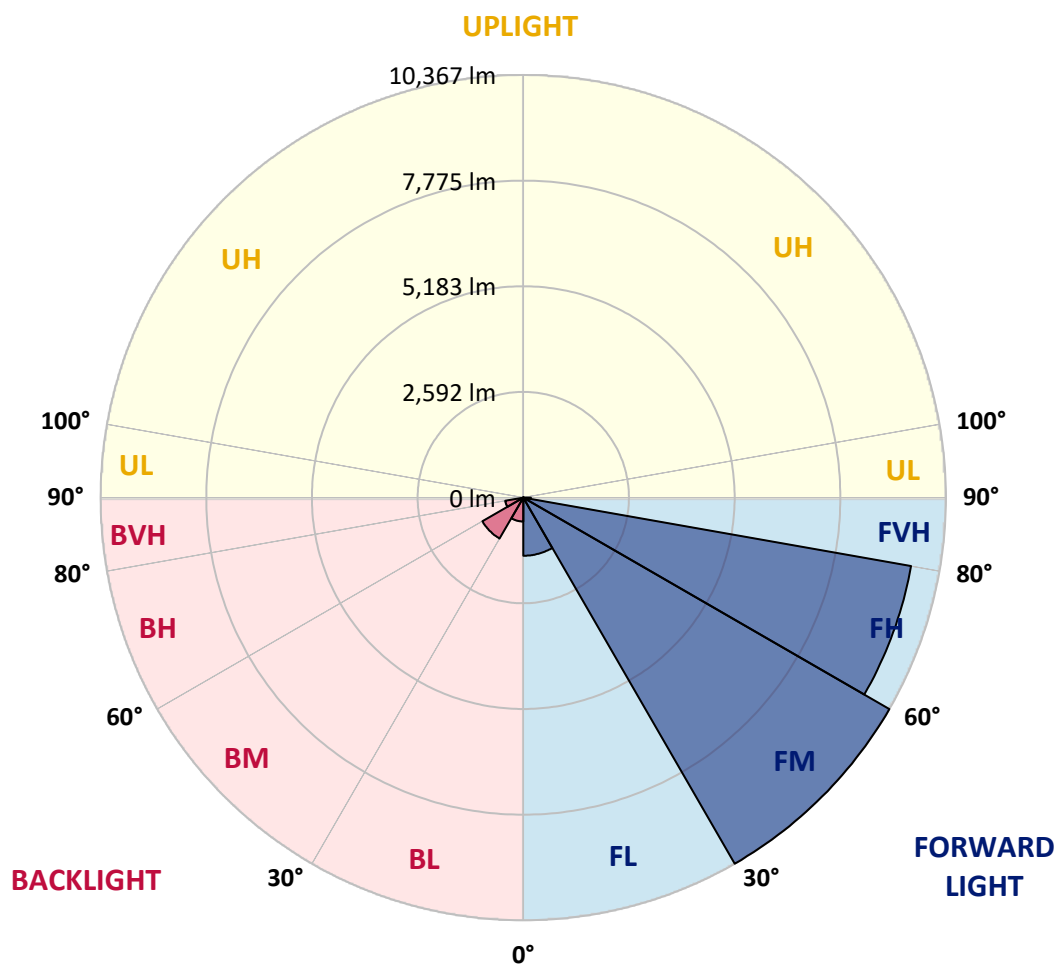
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.4	6.0			
FM	(30°-60°)	10367.0	43.5			
FH	(60°-80°)	9656.4	40.5			G4/12000
FVH	(80°-90°)	187.5	0.8			G2/225
BL	(0°-30°)	585.0	2.5	B2/1000		
BM	(30°-60°)	1158.5	4.9	B2/2500		
BH	(60°-80°)	449.7	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2496.7	2485.7	2480.3	2451.1	2429.3	2402.0	2402.0	2367.4	2327.3	2283.6	2243.5
5°	2775.3	2757.1	2733.4	2707.9	2656.9	2584.1	2584.1	2511.2	2427.5	2352.8	2270.9
7.5°	3043.0	3026.6	2986.5	2937.4	2853.6	2777.1	2771.7	2666.0	2565.9	2453.0	2336.4
10°	3277.9	3265.2	3230.6	3135.9	3048.5	2948.3	2946.5	2828.1	2711.6	2573.2	2429.3
12.5°	3441.8	3443.6	3398.1	3307.0	3194.1	3099.4	3092.2	2975.6	2853.6	2704.3	2527.6
15°	3558.3	3558.3	3511.0	3409.0	3307.0	3223.3	3216.0	3114.0	2988.4	2826.3	2635.1
17.5°	3591.1	3602.1	3551.1	3460.0	3378.1	3305.2	3303.4	3217.8	3117.7	2961.0	2744.3
20°	3578.4	3589.3	3549.2	3478.2	3421.8	3379.9	3374.4	3339.8	3246.9	3099.4	2860.9
22.5°	3551.1	3562.0	3532.9	3491.0	3463.7	3476.4	3467.3	3496.4	3447.3	3268.8	2999.3
25°	3556.5	3567.5	3545.6	3521.9	3545.6	3623.9	3647.6	3773.2	3729.5	3483.7	3148.6
27.5°	3727.7	3749.6	3718.6	3729.5	3813.3	3995.4	4040.9	4257.6	4064.6	3756.8	3381.7
30°	4108.3	4093.7	4035.5	4088.3	4379.6	4765.7	4753.0	4718.4	4416.1	4071.9	3658.5
32.5°	4454.3	4441.6	4437.9	4665.6	5193.7	5381.2	5372.1	5037.0	4731.1	4432.5	3931.7
35°	4594.5	4545.4	4534.4	5086.2	5969.4	5721.8	5665.3	5168.2	5113.5	4825.8	4210.3
37.5°	5017.0	4982.4	4813.1	5155.4	5659.8	5577.9	5534.2	5394.0	5521.4	5173.6	4525.3
40°	5887.5	5791.0	5638.0	5302.9	5221.0	5255.6	5299.3	5683.5	6004.0	5648.9	4946.0
42.5°	6969.2	6947.3	6663.3	6038.6	5424.9	5472.3	5528.7	6288.1	6697.9	6364.6	5632.5
45°	8267.6	8298.6	7888.8	7151.3	6346.4	6386.4	6468.4	7180.4	7637.5	7477.3	6712.4
47.5°	9447.6	9424.0	9285.6	8518.9	7775.9	7686.7	7819.6	8325.9	8937.8	8963.2	8052.7
50°	10635.0	10760.6	10554.9	10254.4	9702.6	9515.0	9465.9	9713.5	10645.9	10523.9	9662.5
52.5°	12341.3	12406.9	12020.8	11944.3	12070.0	11461.7	11412.6	11472.7	12306.7	11887.9	10868.1
55°	13413.9	13375.7	13231.8	13829.1	14326.3	13566.9	13505.0	13262.8	13685.2	12851.2	12028.1
57.5°	13752.6	13807.3	14142.3	15222.2	16398.6	15754.0	15641.1	14952.7	14679.5	13749.0	13095.2
60°	13601.5	13701.6	14424.6	16030.8	17662.4	17565.9	17469.4	16313.0	15393.4	14499.3	13843.7
62.5°	12525.2	12665.5	13821.8	15886.9	18090.4	18693.2	18573.0	17161.6	15868.7	14863.5	13974.8
65°	10496.6	10600.4	12261.2	14581.2	17482.2	19079.2	19035.5	17427.5	15943.4	14530.2	13077.0
67.5°	7482.7	7836.0	9374.8	12288.5	15683.0	18420.0	18494.7	17108.8	15242.3	13089.8	10829.8
70°	4703.8	4944.2	6047.7	8797.5	12572.6	16160.1	16405.9	15650.2	13228.2	10203.4	7249.6
72.5°	2243.5	2422.0	3208.7	5568.8	8874.0	12714.6	12909.5	12847.6	10228.9	6428.3	3740.5
75°	999.8	1067.1	1531.5	2842.7	5729.0	8546.2	9050.7	9134.4	6391.9	3145.0	1455.0
77.5°	509.9	511.7	717.5	1376.7	2860.9	5099.0	5199.1	5492.3	3465.5	1385.8	506.3
80°	271.3	289.5	380.6	650.1	1484.2	2511.2	2498.5	2746.2	1537.0	679.3	169.4
82.5°	122.0	134.8	214.9	340.5	724.8	952.4	1027.1	1123.6	659.2	433.4	74.7
85°	36.4	43.7	105.6	171.2	262.2	275.0	307.8	397.0	373.3	307.8	38.2
87.5°	5.5	5.5	43.7	47.3	38.2	49.2	51.0	56.5	120.2	112.9	20.0
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°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2221.7	2208.9	2163.4	2125.2	2092.4	2072.4	2048.7	2034.1	2026.8	2021.4	2023.2
5°	2230.8	2199.8	2121.5	2059.6	2012.3	1961.3	1926.7	1906.6	1897.5	1883.0	1883.0
7.5°	2281.8	2232.6	2123.4	2028.7	1946.7	1877.5	1812.0	1788.3	1771.9	1768.2	1764.6
10°	2354.6	2292.7	2143.4	2012.3	1895.7	1801.0	1708.2	1626.2	1562.5	1524.2	1518.8
12.5°	2445.7	2356.4	2174.3	2001.3	1852.0	1684.5	1438.6	1272.9	1161.8	1127.2	1132.7
15°	2529.4	2432.9	2205.3	1992.2	1771.9	1396.8	1118.1	928.7	872.3	866.8	868.6
17.5°	2629.6	2514.9	2241.7	1979.5	1551.5	1067.1	830.4	779.4	790.3	808.5	806.7
20°	2733.4	2602.3	2285.4	1903.0	1238.3	803.1	733.9	739.3	755.7	772.1	775.8
22.5°	2844.5	2702.4	2336.4	1719.1	945.1	699.3	695.6	702.9	719.3	737.5	741.2
25°	2997.5	2828.1	2374.7	1478.7	715.7	646.5	653.8	666.5	681.1	701.1	704.7
27.5°	3194.1	2997.5	2394.7	1165.5	619.2	599.1	600.9	619.2	637.4	655.6	655.6
30°	3449.1	3199.6	2354.6	881.4	571.8	553.6	546.3	557.2	580.9	599.1	600.9
32.5°	3676.7	3390.8	2249.0	673.8	537.2	511.7	493.5	495.3	504.4	515.4	517.2
35°	3904.3	3576.6	2068.7	566.3	500.8	471.7	444.3	429.8	422.5	417.0	422.5
37.5°	4195.7	3807.8	1828.3	515.4	469.8	433.4	395.2	364.2	338.7	322.3	326.0
40°	4570.9	4128.3	1544.3	482.6	440.7	397.0	346.0	305.9	262.2	247.7	240.4
42.5°	5190.0	4614.6	1245.6	455.3	411.6	358.7	295.0	240.4	200.3	185.7	189.4
45°	6167.9	5228.3	959.7	426.1	382.4	316.9	247.7	189.4	156.6	149.3	153.0
47.5°	7464.5	6022.2	739.3	393.3	346.0	271.3	194.9	149.3	129.3	127.5	125.7
50°	8684.6	6761.6	617.3	356.9	302.3	225.8	160.3	125.7	112.9	111.1	111.1
52.5°	9788.2	7291.5	502.6	315.0	254.9	185.7	134.8	111.1	100.2	94.7	94.7
55°	10769.7	7637.5	407.9	264.1	200.3	147.5	116.5	100.2	87.4	80.1	78.3
57.5°	11510.9	7679.4	305.9	211.2	149.3	114.7	100.2	87.4	72.8	63.7	60.1
60°	11827.8	7317.0	225.8	160.3	111.1	91.1	80.1	71.0	54.6	45.5	43.7
62.5°	11509.1	6612.3	167.5	122.0	85.6	67.4	56.5	52.8	38.2	27.3	25.5
65°	10367.3	5594.3	132.9	92.9	63.7	49.2	36.4	34.6	23.7	12.7	10.9
67.5°	8305.8	4381.5	105.6	69.2	45.5	32.8	23.7	21.9	12.7	3.6	3.6
70°	5401.3	2800.8	85.6	51.0	29.1	21.9	14.6	10.9	7.3	1.8	0.0
72.5°	2671.5	1309.3	69.2	40.1	20.0	10.9	5.5	3.6	5.5	0.0	0.0
75°	1036.2	466.2	51.0	27.3	10.9	5.5	3.6	0.0	1.8	0.0	0.0
77.5°	344.2	154.8	31.0	14.6	7.3	3.6	0.0	0.0	0.0	0.0	0.0
80°	127.5	60.1	16.4	9.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	51.0	23.7	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.5	14.6	7.3	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	10.9	7.3	5.5	3.6	1.8	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)