

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: P456879

Luminaire Tested: **GALN-SA8A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456879
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-SA8A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 23494 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 244
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

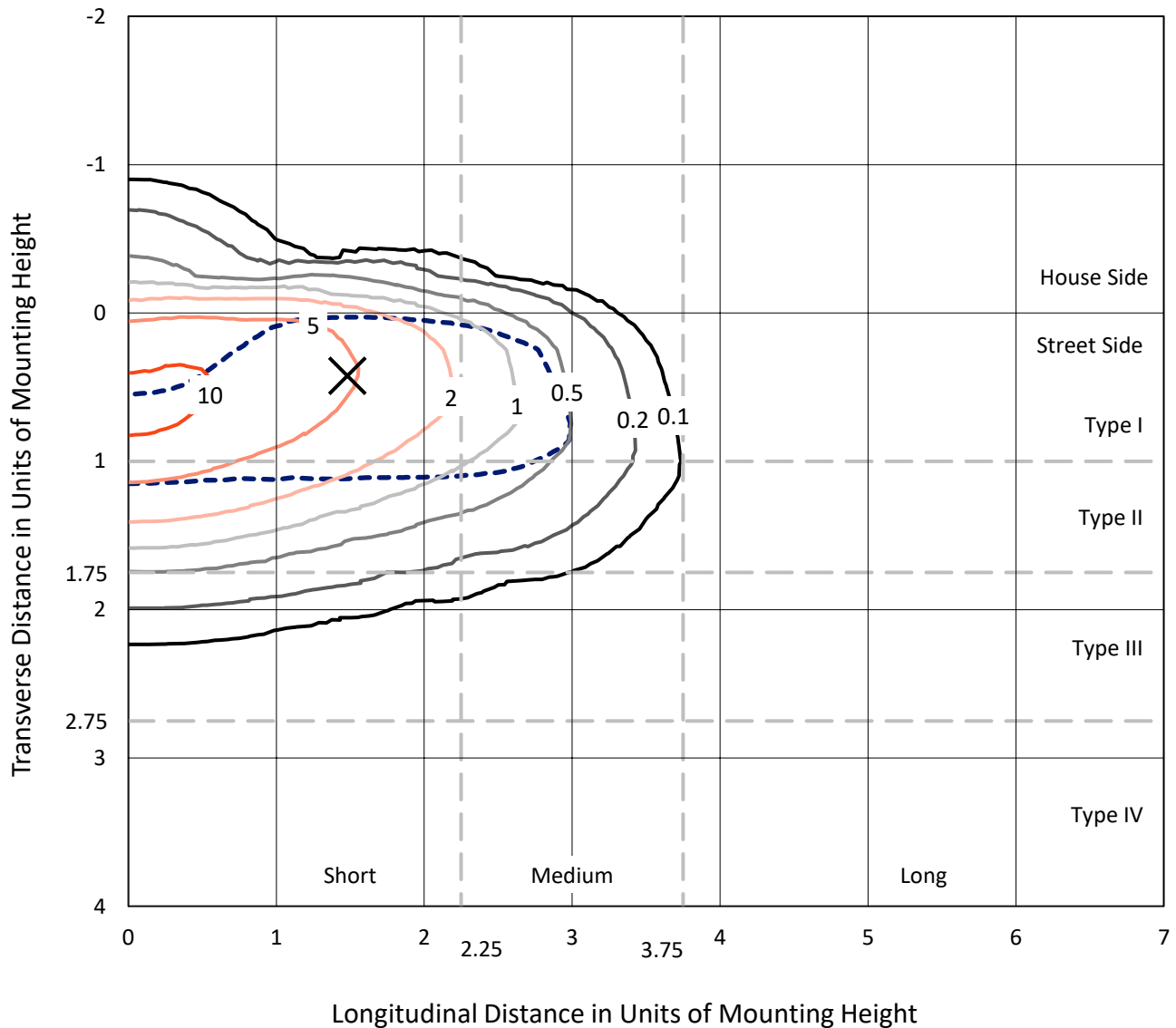


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

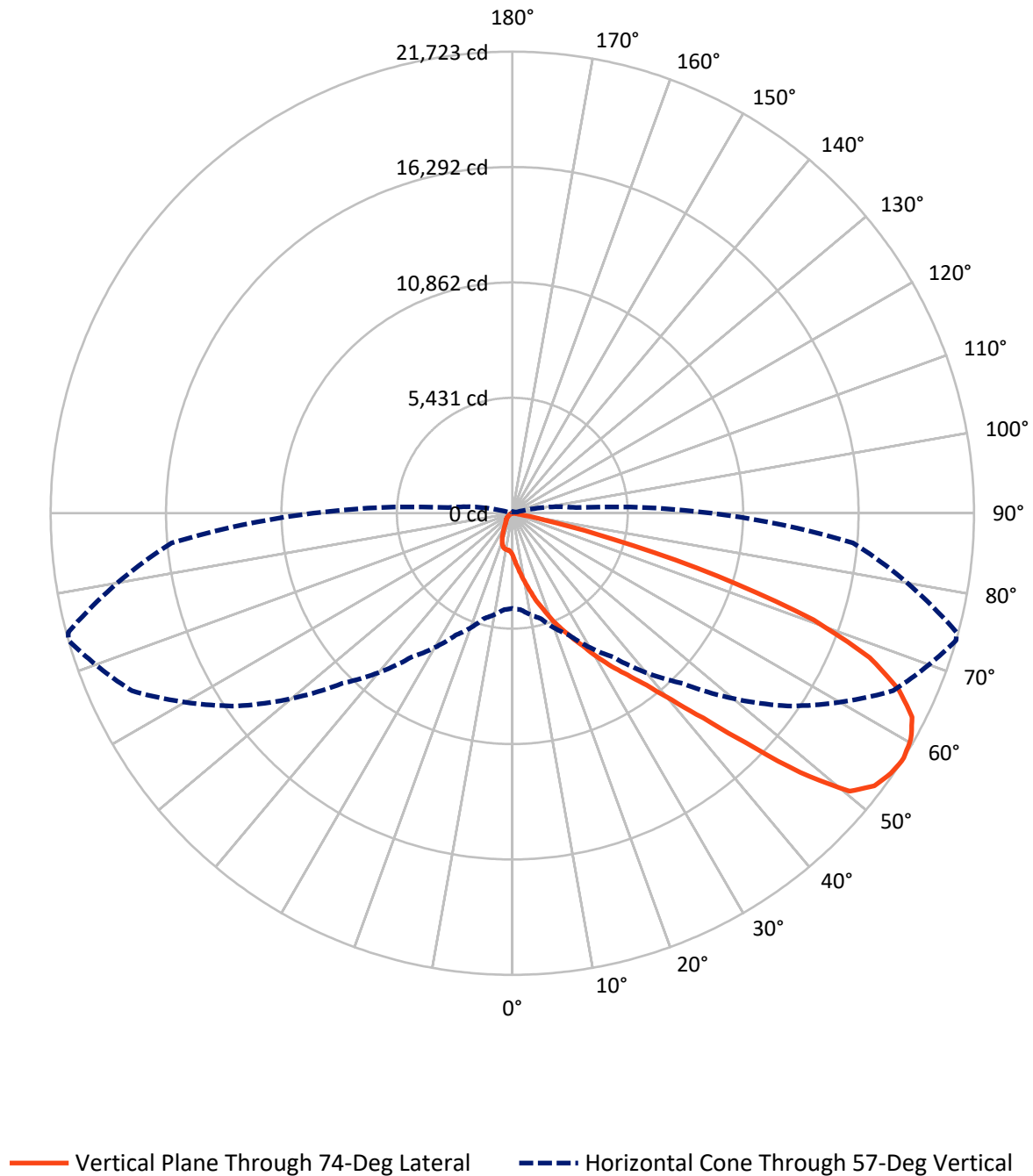


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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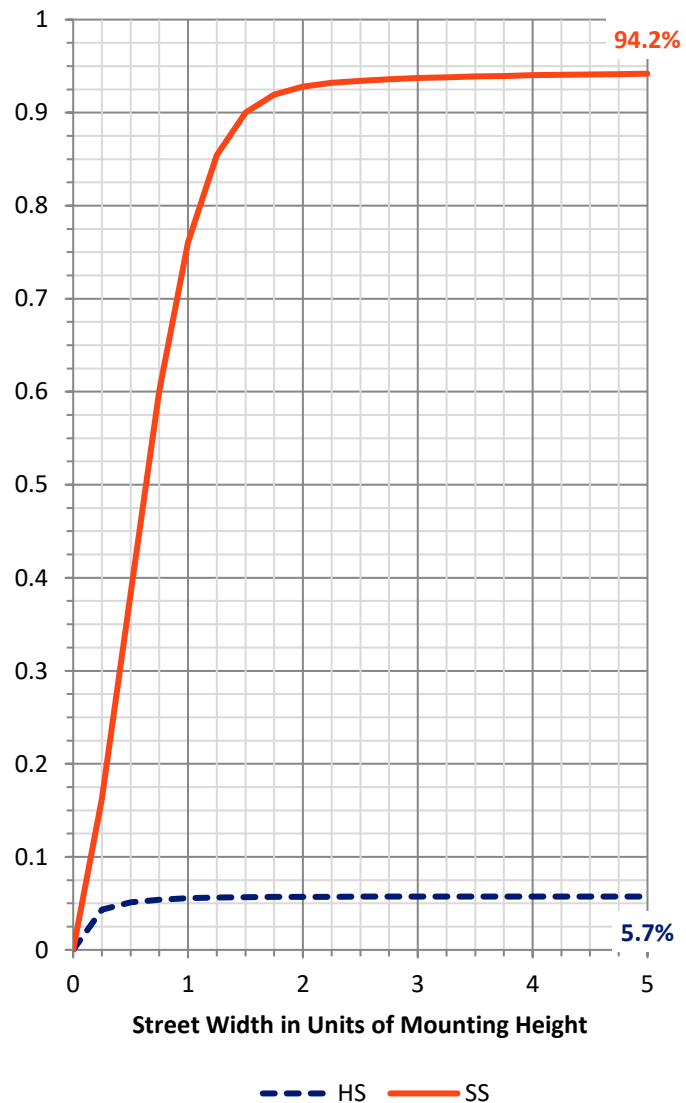
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.1	0.0	1355.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	22138.9	0.0	22138.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	23494.0	0.0	23494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.0
10°-20°	936.1	4.0
20°-30°	2003.0	8.5
30°-40°	3681.5	15.7
40°-50°	5643.9	24.0
50°-60°	5970.5	25.4
60°-70°	3898.9	16.6
70°-80°	1065.3	4.5
80°-90°	57.4	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°	23494.0	100.0
0°-180°	23494.0	100.0

Coefficient of Utilization



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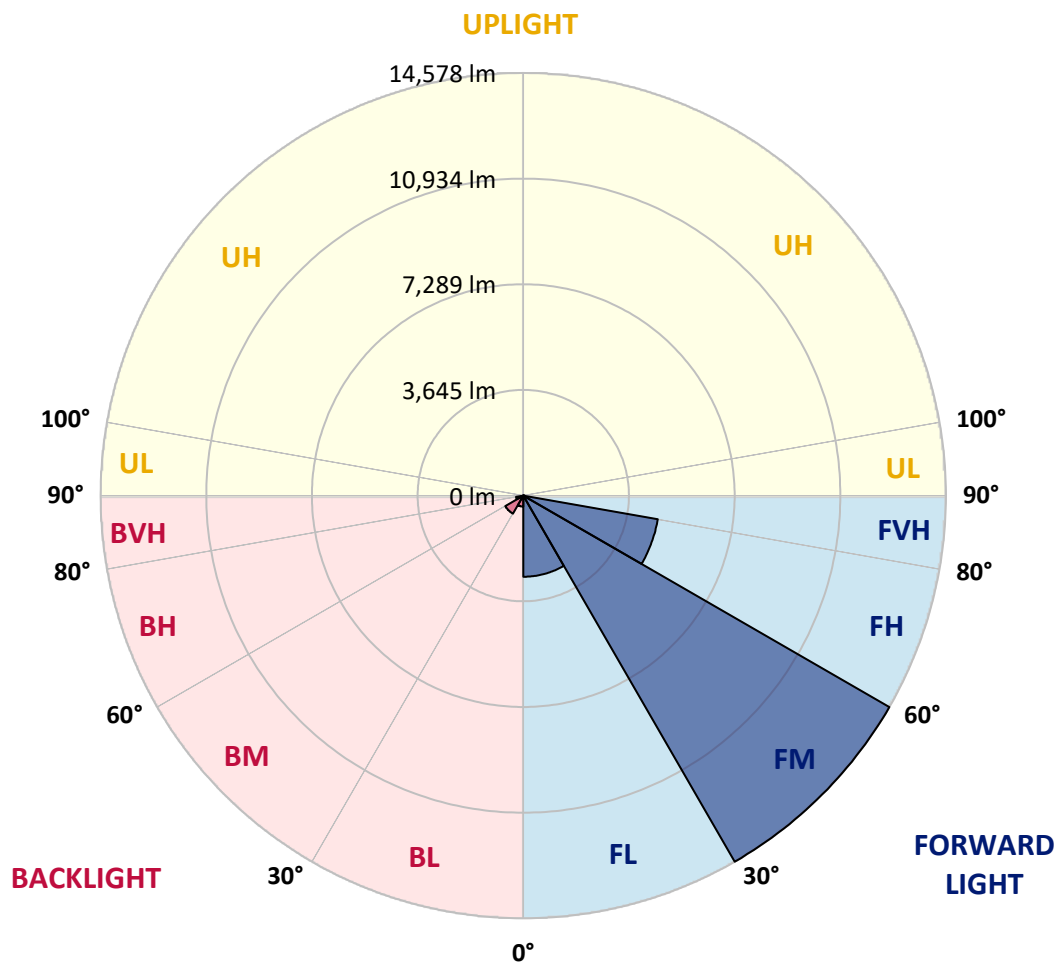
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2798.1	11.9			
FM	(30°-60°)	14578.5	62.1			
FH	(60°-80°)	4709.8	20.0			G2/5000
FVH	(80°-90°)	52.6	0.2			G1/100
BL	(0°-30°)	378.5	1.6	B1/500		
BM	(30°-60°)	717.4	3.1	B1/1000		
BH	(60°-80°)	254.4	1.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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°	65°	74°	75°	85°
0°	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6
2.5°	2879.2	2853.3	2801.3	2783.5	2707.3	2588.9	2485.0	2345.5	2235.2	2223.9	2090.9
5°	3855.7	3797.3	3773.0	3656.2	3472.9	3300.9	3005.7	2781.9	2524.0	2504.5	2236.9
7.5°	4796.5	4715.4	4691.1	4580.8	4366.7	4095.8	3713.0	3305.8	2897.0	2859.7	2433.1
10°	5477.8	5489.1	5445.3	5372.4	5198.8	4923.0	4451.0	3894.6	3312.3	3265.3	2653.7
12.5°	5966.0	5964.4	5972.5	5970.9	5878.4	5669.2	5172.8	4532.1	3769.7	3677.3	2906.8
15°	6284.0	6288.8	6313.2	6397.5	6407.2	6277.5	5863.8	5142.0	4300.2	4185.0	3180.9
17.5°	6605.1	6639.2	6678.1	6757.6	6829.0	6777.1	6485.1	5777.9	4780.3	4694.3	3474.5
20°	7135.6	7182.6	7159.9	7208.6	7245.9	7250.7	7025.3	6365.1	5362.6	5218.3	3810.3
22.5°	7983.9	7982.3	7923.9	7836.3	7763.3	7760.1	7555.7	6968.5	5891.4	5751.9	4147.7
25°	9056.1	9061.0	8947.4	8697.6	8516.0	8293.7	8058.5	7497.3	6457.5	6285.6	4502.9
27.5°	10285.7	10254.8	10082.9	9739.0	9378.9	8999.3	8660.3	8112.1	7057.7	6915.0	4910.1
30°	11390.3	11378.9	11177.8	10757.7	10284.0	9902.8	9411.4	8882.6	7834.7	7659.5	5365.9
32.5°	12418.7	12434.9	12155.9	11721.2	11263.8	10824.2	10305.1	9619.0	8597.1	8348.9	5862.2
35°	13221.6	13237.9	12949.1	12587.4	12117.0	11752.0	11257.3	10404.1	9349.7	9140.5	6433.2
37.5°	13649.9	13671.0	13503.9	13231.4	12937.8	12754.5	12293.8	11414.6	10264.6	10138.0	7108.0
40°	13731.0	13755.3	13682.3	13609.3	13593.1	13724.5	13589.8	12605.2	11533.0	11335.1	8113.7
42.5°	13487.7	13520.1	13552.5	13714.7	14045.7	14527.4	14996.2	14220.8	13166.5	12900.5	9343.2
45°	12848.6	12845.3	12973.5	13393.6	14134.9	15163.3	16465.8	16243.6	15392.0	15075.7	11080.5
47.5°	11755.3	11739.0	12016.4	12615.0	13769.9	15280.1	17664.5	18699.4	18232.3	17940.3	12947.5
50°	10089.4	10168.9	10605.2	11440.6	12863.2	14926.4	18034.4	20310.2	20563.2	20253.4	14456.0
52.5°	8138.0	8134.8	8819.3	9953.1	11520.1	14147.8	17776.5	20602.1	21320.7	21083.9	15199.0
55°	6022.8	6065.0	6777.1	7920.7	9776.3	12726.9	16934.6	20302.0	21609.4	21442.4	15688.8
57°	4480.2	4554.8	5125.8	6335.9	8258.0	11320.5	15813.7	19765.1	21723.0	21632.2	16096.0
57.5°	4181.7	4185.0	4741.4	5841.1	7813.6	10780.4	15492.6	19541.3	21719.7	21669.5	16162.5
60°	2574.3	2655.4	3039.8	3948.2	5719.5	8413.8	13340.0	18255.0	21551.1	21624.0	16446.3
62.5°	1541.0	1575.0	1824.8	2379.6	3687.0	6141.2	10916.6	16608.6	21111.5	21333.7	16426.9
65°	991.1	999.2	1112.8	1440.4	2305.0	4150.9	8412.1	14433.3	19974.4	20383.1	15784.5
67.5°	765.6	778.6	824.0	945.7	1336.6	2585.6	5949.8	12112.1	18134.9	18662.1	14227.3
70°	679.7	686.1	702.4	741.3	884.0	1459.9	3701.6	9461.6	15038.4	15187.6	11134.0
72.5°	554.8	572.6	622.9	635.9	700.7	911.6	2060.1	6350.5	10104.0	10141.3	6228.8
75°	429.9	433.1	507.7	545.0	590.4	627.7	919.7	3202.0	4853.3	4593.8	2400.7
77.5°	321.2	335.8	369.8	416.9	481.8	449.3	412.0	1206.8	1506.9	1479.3	697.5
80°	206.0	214.1	257.9	313.1	374.7	293.6	232.0	353.6	330.9	340.6	167.1
82.5°	103.8	105.4	165.5	254.7	238.4	147.6	146.0	144.4	123.3	121.7	77.9
85°	11.4	24.3	107.1	146.0	107.1	48.7	68.1	66.5	64.9	66.5	45.4
87.5°	1.6	1.6	17.8	21.1	14.6	16.2	19.5	21.1	26.0	24.3	19.5
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°	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6
2.5°	2026.0	1961.1	1841.1	1725.9	1639.9	1584.8	1513.4	1487.5	1450.1	1445.3	1427.4
5°	2113.6	1990.3	1781.1	1615.6	1482.6	1382.0	1294.4	1221.4	1163.0	1150.1	1156.5
7.5°	2238.5	2055.2	1763.2	1537.7	1352.8	1180.9	1041.4	955.4	893.8	871.1	874.3
10°	2379.6	2141.2	1760.0	1455.0	1172.8	961.9	809.4	733.2	697.5	684.5	669.9
12.5°	2546.7	2240.1	1751.9	1326.9	974.9	767.2	658.6	613.1	579.1	569.4	569.4
15°	2734.8	2345.5	1712.9	1167.9	791.6	634.2	561.2	525.6	514.2	504.5	504.5
17.5°	2931.1	2449.4	1631.8	971.6	656.9	543.4	498.0	476.9	460.7	449.3	449.3
20°	3155.0	2551.5	1502.1	798.1	554.8	485.0	449.3	425.0	412.0	402.3	399.0
22.5°	3367.5	2634.3	1336.6	655.3	483.4	436.3	403.9	377.9	365.0	360.1	360.1
25°	3588.1	2684.6	1137.1	541.8	441.2	395.8	360.1	339.0	327.7	324.4	322.8
27.5°	3802.2	2713.8	961.9	473.6	402.3	358.5	324.4	308.2	296.8	293.6	295.2
30°	4061.7	2718.6	791.6	425.0	368.2	322.8	292.0	277.4	270.9	267.6	266.0
32.5°	4324.5	2712.1	665.1	395.8	335.8	292.0	266.0	254.7	249.8	244.9	244.9
35°	4619.7	2678.1	566.1	366.6	305.0	266.0	243.3	233.6	227.1	222.2	220.6
37.5°	4986.3	2660.2	509.3	334.1	277.4	241.7	220.6	210.9	206.0	199.5	197.9
40°	5563.8	2739.7	491.5	305.0	249.8	219.0	199.5	188.2	181.7	175.2	173.6
42.5°	6284.0	2879.2	462.3	275.8	225.5	197.9	178.4	165.5	154.1	146.0	142.7
45°	7216.7	3062.5	416.9	244.9	204.4	175.2	157.3	141.1	126.5	120.0	118.4
47.5°	8194.8	3239.3	376.3	220.6	181.7	155.7	136.3	118.4	105.4	100.6	98.9
50°	8795.0	3275.0	350.4	193.0	159.0	134.6	115.2	98.9	90.8	86.0	86.0
52.5°	9069.1	3218.2	314.7	168.7	137.9	118.4	98.9	86.0	81.1	77.9	76.2
55°	9260.5	3130.6	267.6	146.0	118.4	100.6	87.6	77.9	71.4	68.1	66.5
57°	9372.4	3012.2	232.0	128.1	102.2	87.6	77.9	69.7	63.3	56.8	56.8
57.5°	9377.3	2966.8	222.2	126.5	97.3	84.3	76.2	68.1	60.0	53.5	51.9
60°	9232.9	2655.4	178.4	107.1	77.9	71.4	63.3	53.5	42.2	35.7	34.1
62.5°	8769.0	2259.6	147.6	90.8	63.3	55.2	45.4	40.6	29.2	21.1	21.1
65°	8066.6	1833.0	126.5	73.0	51.9	40.6	30.8	29.2	17.8	9.7	8.1
67.5°	7051.2	1427.4	107.1	60.0	43.8	29.2	21.1	19.5	9.7	3.2	0.0
70°	5372.4	973.3	89.2	48.7	32.4	21.1	14.6	11.4	6.5	1.6	0.0
72.5°	3096.6	535.3	74.6	37.3	24.3	16.2	11.4	6.5	6.5	0.0	0.0
75°	1106.3	230.3	56.8	27.6	19.5	13.0	8.1	3.2	4.9	1.6	0.0
77.5°	352.0	123.3	37.3	21.1	16.2	9.7	6.5	3.2	3.2	1.6	0.0
80°	103.8	64.9	22.7	17.8	11.4	8.1	4.9	1.6	3.2	1.6	0.0
82.5°	56.8	32.4	17.8	13.0	11.4	6.5	4.9	1.6	1.6	1.6	0.0
85°	29.2	19.5	14.6	13.0	11.4	6.5	4.9	1.6	0.0	1.6	1.6
87.5°	16.2	14.6	14.6	13.0	11.4	8.1	4.9	1.6	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)