

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: P454567

Luminaire Tested: **GALN-SA5C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454567
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-SA5C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 20239 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 269
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

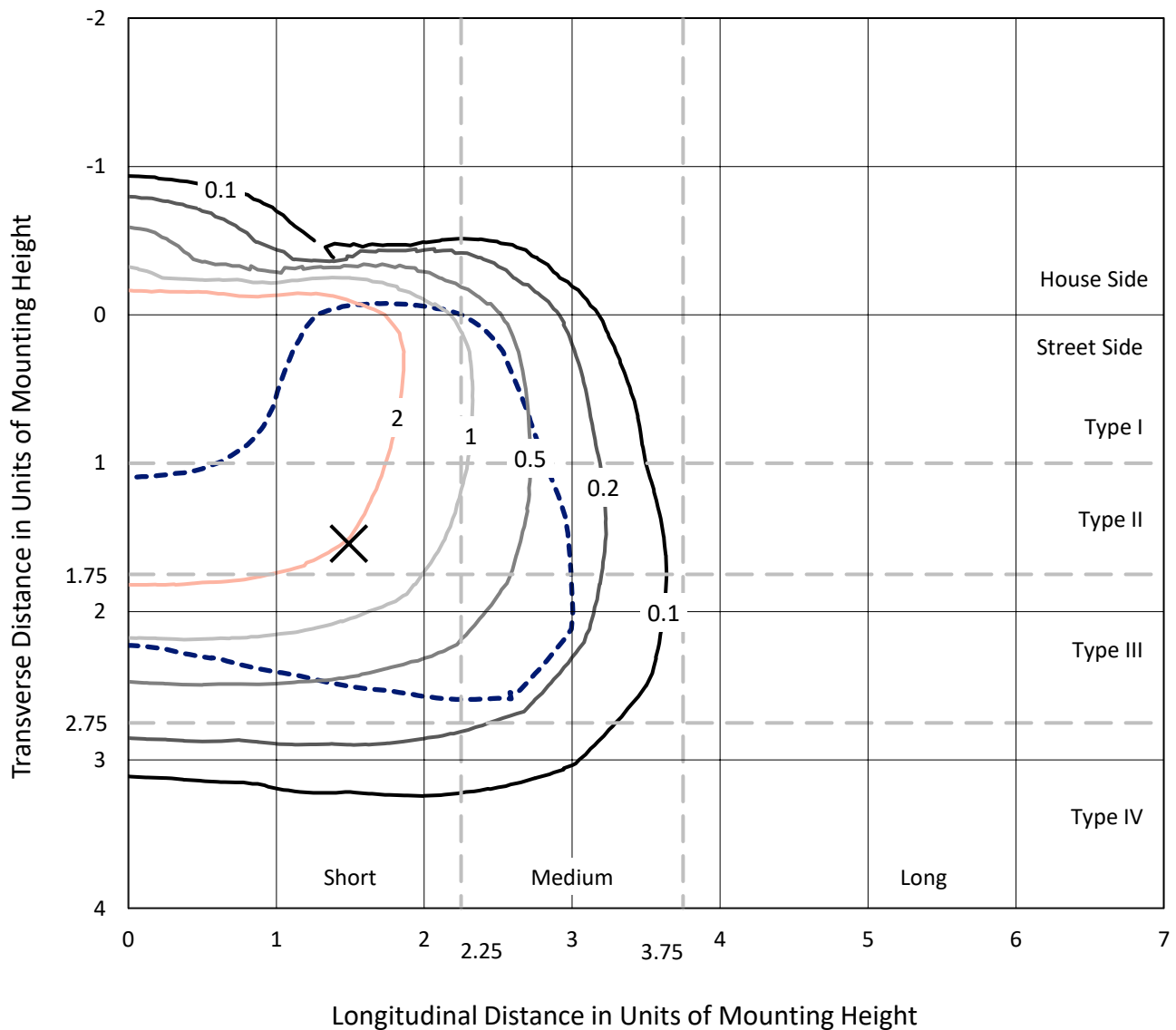


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Iso-Footcandle Lines of Horizontal Illumination

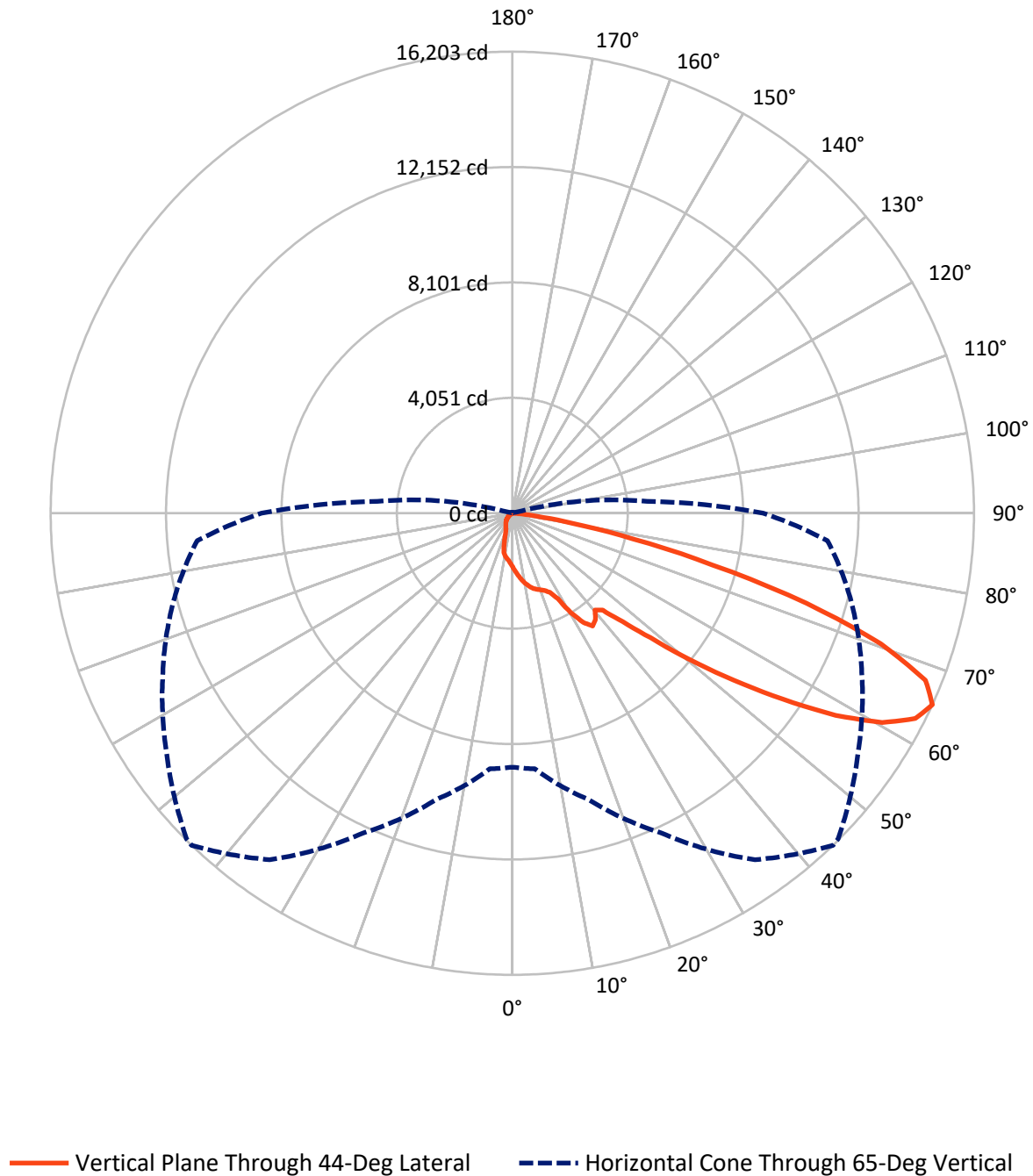
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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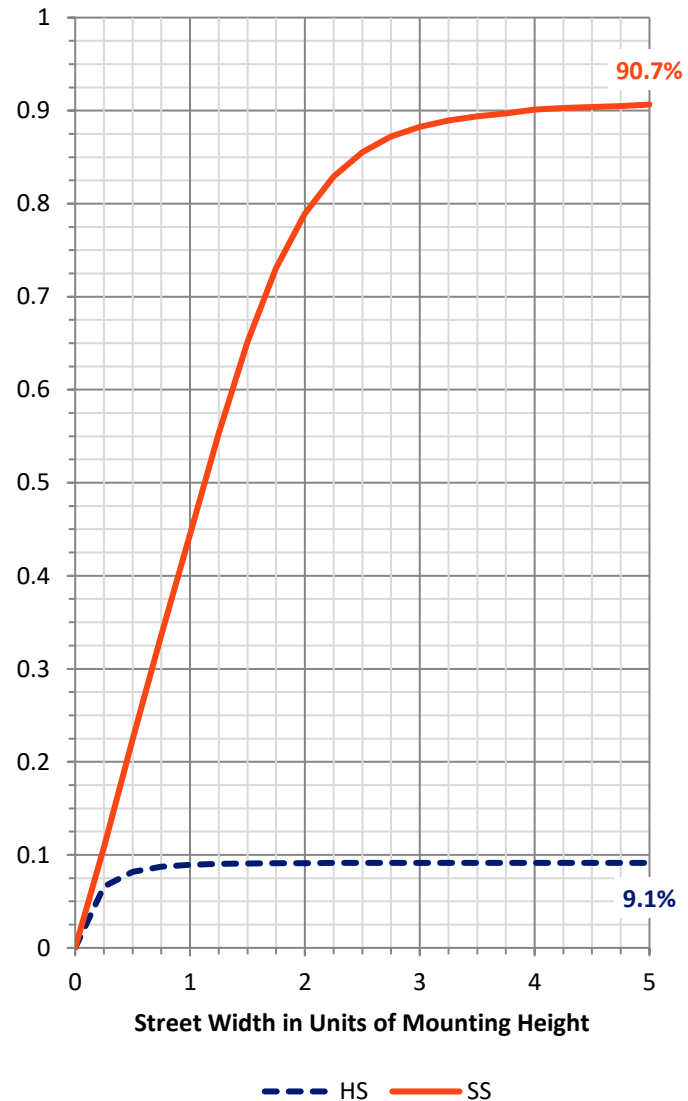
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.7	0.0	1864.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18374.3	0.0	18374.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	20239.0	0.0	20239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	0.9
10°-20°	563.9	2.8
20°-30°	956.1	4.7
30°-40°	1589.7	7.9
40°-50°	2775.6	13.7
50°-60°	5422.5	26.8
60°-70°	6291.4	31.1
70°-80°	2291.0	11.3
80°-90°	161.4	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°	20239.0	100.0
0°-180°	20239.0	100.0

Coefficient of Utilization



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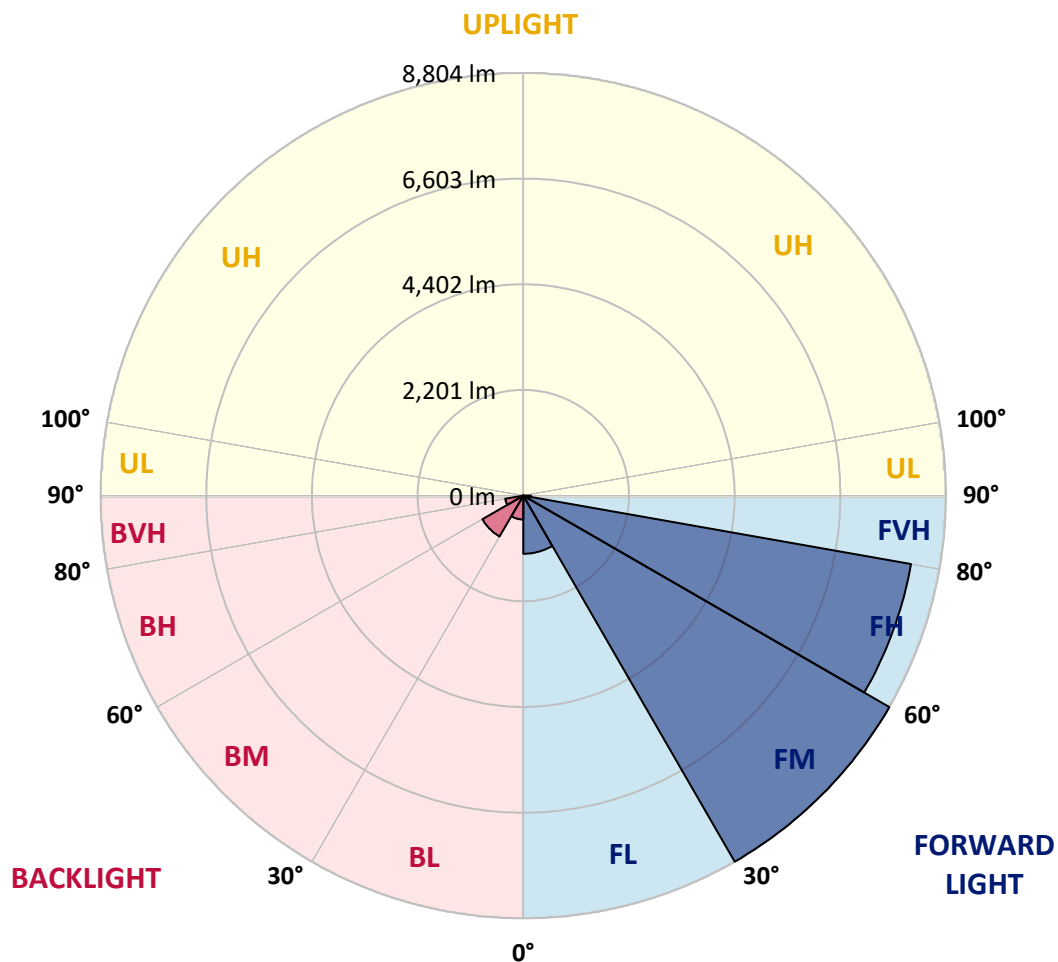
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.5	6.0			
FM	(30°-60°)	8804.0	43.5			
FH	(60°-80°)	8200.6	40.5			G4/12000
FVH	(80°-90°)	159.2	0.8			G2/225
BL	(0°-30°)	496.8	2.5	B1/500		
BM	(30°-60°)	983.8	4.9	B1/1000		
BH	(60°-80°)	381.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6
2.5°	2120.3	2111.0	2106.3	2081.6	2063.0	2039.8	2039.8	2010.5	1976.4	1939.3	1905.3
5°	2356.9	2341.4	2321.3	2299.7	2256.4	2194.5	2194.5	2132.6	2061.5	1998.1	1928.5
7.5°	2584.2	2570.3	2536.3	2494.5	2423.4	2358.4	2353.8	2264.1	2179.0	2083.1	1984.2
10°	2783.7	2772.9	2743.5	2663.1	2588.9	2503.8	2502.3	2401.7	2302.8	2185.2	2063.0
12.5°	2922.9	2924.4	2885.8	2808.5	2712.6	2632.2	2626.0	2527.0	2423.4	2296.6	2146.6
15°	3021.9	3021.9	2981.7	2895.1	2808.5	2737.3	2731.1	2644.5	2537.8	2400.2	2237.8
17.5°	3049.7	3059.0	3015.7	2938.4	2868.8	2806.9	2805.4	2732.7	2647.6	2514.6	2330.6
20°	3038.9	3048.2	3014.1	2953.8	2905.9	2870.3	2865.7	2836.3	2757.4	2632.2	2429.6
22.5°	3015.7	3025.0	3000.2	2964.7	2941.5	2952.3	2944.6	2969.3	2927.5	2776.0	2547.1
25°	3020.3	3029.6	3011.1	2990.9	3011.1	3077.6	3097.7	3204.4	3167.2	2958.5	2673.9
27.5°	3165.7	3184.3	3158.0	3167.2	3238.4	3393.0	3431.7	3615.7	3451.8	3190.4	2871.9
30°	3488.9	3476.6	3427.1	3471.9	3719.4	4047.2	4036.4	4007.0	3750.3	3458.0	3106.9
32.5°	3782.8	3771.9	3768.8	3962.2	4410.6	4569.9	4562.2	4277.6	4017.8	3764.2	3338.9
35°	3901.8	3860.1	3850.8	4319.4	5069.5	4859.1	4811.2	4389.0	4342.6	4098.2	3575.5
37.5°	4260.6	4231.2	4087.4	4378.2	4806.5	4737.0	4699.8	4580.8	4689.0	4393.6	3843.1
40°	4999.9	4917.9	4788.0	4503.4	4433.8	4463.2	4500.3	4826.7	5098.8	4797.3	4200.3
42.5°	5918.5	5899.9	5658.7	5128.2	4607.0	4647.3	4695.2	5340.1	5688.1	5405.0	4783.4
45°	7021.1	7047.4	6699.5	6073.1	5389.6	5423.6	5493.2	6097.9	6486.1	6350.0	5700.4
47.5°	8023.3	8003.2	7885.6	7234.6	6603.6	6527.8	6640.7	7070.6	7590.3	7611.9	6838.7
50°	9031.6	9138.3	8963.6	8708.4	8239.8	8080.5	8038.8	8249.1	9040.9	8937.3	8205.8
52.5°	10480.7	10536.4	10208.5	10143.5	10250.3	9733.7	9692.0	9743.0	10451.3	10095.6	9229.6
55°	11391.6	11359.1	11236.9	11744.2	12166.4	11521.5	11468.9	11263.2	11622.0	10913.7	10214.7
57.5°	11679.2	11725.6	12010.2	12927.3	13926.3	13378.8	13283.0	12698.4	12466.4	11676.1	11120.9
60°	11550.9	11635.9	12249.9	13613.9	14999.6	14917.6	14835.7	13853.6	13072.6	12313.3	11756.6
62.5°	10636.9	10756.0	11738.0	13491.7	15363.0	15874.9	15772.8	14574.3	13476.3	12622.6	11867.9
65°	8914.1	9002.2	10412.6	12382.9	14846.5	16202.8	16165.7	14800.1	13539.7	12339.6	11105.5
67.5°	6354.6	6654.6	7961.4	10435.8	13318.5	15642.9	15706.3	14529.4	12944.3	11116.3	9197.1
70°	3994.6	4198.8	5136.0	7471.2	10677.1	13723.7	13932.5	13290.7	11233.8	8665.1	6156.7
72.5°	1905.3	2056.9	2724.9	4729.2	7536.1	10797.7	10963.2	10910.6	8686.7	5459.2	3176.5
75°	849.0	906.3	1300.6	2414.1	4865.3	7257.8	7686.1	7757.3	5428.2	2670.8	1235.7
77.5°	433.0	434.6	609.3	1169.2	2429.6	4330.2	4415.3	4664.3	2943.0	1176.9	429.9
80°	230.4	245.9	323.2	552.1	1260.4	2132.6	2121.8	2332.1	1305.3	576.8	143.8
82.5°	103.6	114.4	182.5	289.2	615.5	808.8	872.2	954.2	559.8	368.1	63.4
85°	30.9	37.1	89.7	145.4	222.7	233.5	261.4	337.1	317.0	261.4	32.5
87.5°	4.6	4.6	37.1	40.2	32.5	41.8	43.3	47.9	102.1	95.9	17.0
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°	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6
2.5°	1886.7	1875.9	1837.3	1804.8	1776.9	1759.9	1739.8	1727.4	1721.3	1716.6	1718.2
5°	1894.5	1868.2	1801.7	1749.1	1708.9	1665.6	1636.2	1619.2	1611.5	1599.1	1599.1
7.5°	1937.8	1896.0	1803.2	1722.8	1653.2	1594.5	1538.8	1518.7	1504.8	1501.7	1498.6
10°	1999.6	1947.1	1820.2	1708.9	1609.9	1529.5	1450.6	1381.0	1326.9	1294.4	1289.8
12.5°	2077.0	2001.2	1846.5	1699.6	1572.8	1430.5	1221.7	1081.0	986.7	957.3	961.9
15°	2148.1	2066.1	1872.8	1691.9	1504.8	1186.2	949.6	788.7	740.8	736.1	737.7
17.5°	2233.2	2135.7	1903.8	1681.1	1317.6	906.3	705.2	661.9	671.2	686.6	685.1
20°	2321.3	2210.0	1940.9	1616.1	1051.6	682.0	623.2	627.9	641.8	655.7	658.8
22.5°	2415.6	2295.0	1984.2	1459.9	802.6	593.9	590.8	597.0	610.9	626.3	629.4
25°	2545.6	2401.7	2016.6	1255.8	607.8	549.0	555.2	566.0	578.4	595.4	598.5
27.5°	2712.6	2545.6	2033.7	989.8	525.8	508.8	510.3	525.8	541.3	556.7	556.7
30°	2929.1	2717.2	1999.6	748.5	485.6	470.1	464.0	473.2	493.3	508.8	510.3
32.5°	3122.4	2879.6	1909.9	572.2	456.2	434.6	419.1	420.7	428.4	437.7	439.2
35°	3315.7	3037.3	1756.8	481.0	425.3	400.5	377.3	365.0	358.8	354.2	358.8
37.5°	3563.2	3233.7	1552.7	437.7	399.0	368.1	335.6	309.3	287.7	273.7	276.8
40°	3881.7	3505.9	1311.4	409.8	374.3	337.1	293.8	259.8	222.7	210.3	204.1
42.5°	4407.5	3918.9	1057.8	386.6	349.5	304.7	250.5	204.1	170.1	157.7	160.8
45°	5238.0	4440.0	815.0	361.9	324.8	269.1	210.3	160.8	133.0	126.8	129.9
47.5°	6339.1	5114.3	627.9	334.0	293.8	230.4	165.5	126.8	109.8	108.3	106.7
50°	7375.3	5742.2	524.3	303.1	256.7	191.8	136.1	106.7	95.9	94.3	94.3
52.5°	8312.5	6192.2	426.8	267.5	216.5	157.7	114.4	94.3	85.1	80.4	80.4
55°	9146.1	6486.1	346.4	224.2	170.1	125.3	99.0	85.1	74.2	68.0	66.5
57.5°	9775.5	6521.6	259.8	179.4	126.8	97.4	85.1	74.2	61.9	54.1	51.0
60°	10044.6	6213.9	191.8	136.1	94.3	77.3	68.0	60.3	46.4	38.7	37.1
62.5°	9773.9	5615.4	142.3	103.6	72.7	57.2	47.9	44.8	32.5	23.2	21.7
65°	8804.3	4750.9	112.9	78.9	54.1	41.8	30.9	29.4	20.1	10.8	9.3
67.5°	7053.6	3720.9	89.7	58.8	38.7	27.8	20.1	18.6	10.8	3.1	3.1
70°	4586.9	2378.5	72.7	43.3	24.7	18.6	12.4	9.3	6.2	1.5	0.0
72.5°	2268.7	1111.9	58.8	34.0	17.0	9.3	4.6	3.1	4.6	0.0	0.0
75°	880.0	395.9	43.3	23.2	9.3	4.6	3.1	0.0	1.5	0.0	0.0
77.5°	292.3	131.5	26.3	12.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	108.3	51.0	13.9	7.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	43.3	20.1	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	12.4	6.2	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	9.3	6.2	4.6	3.1	1.5	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)