

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: P456652

Luminaire Tested: **GALN-SA7D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43816 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 433
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

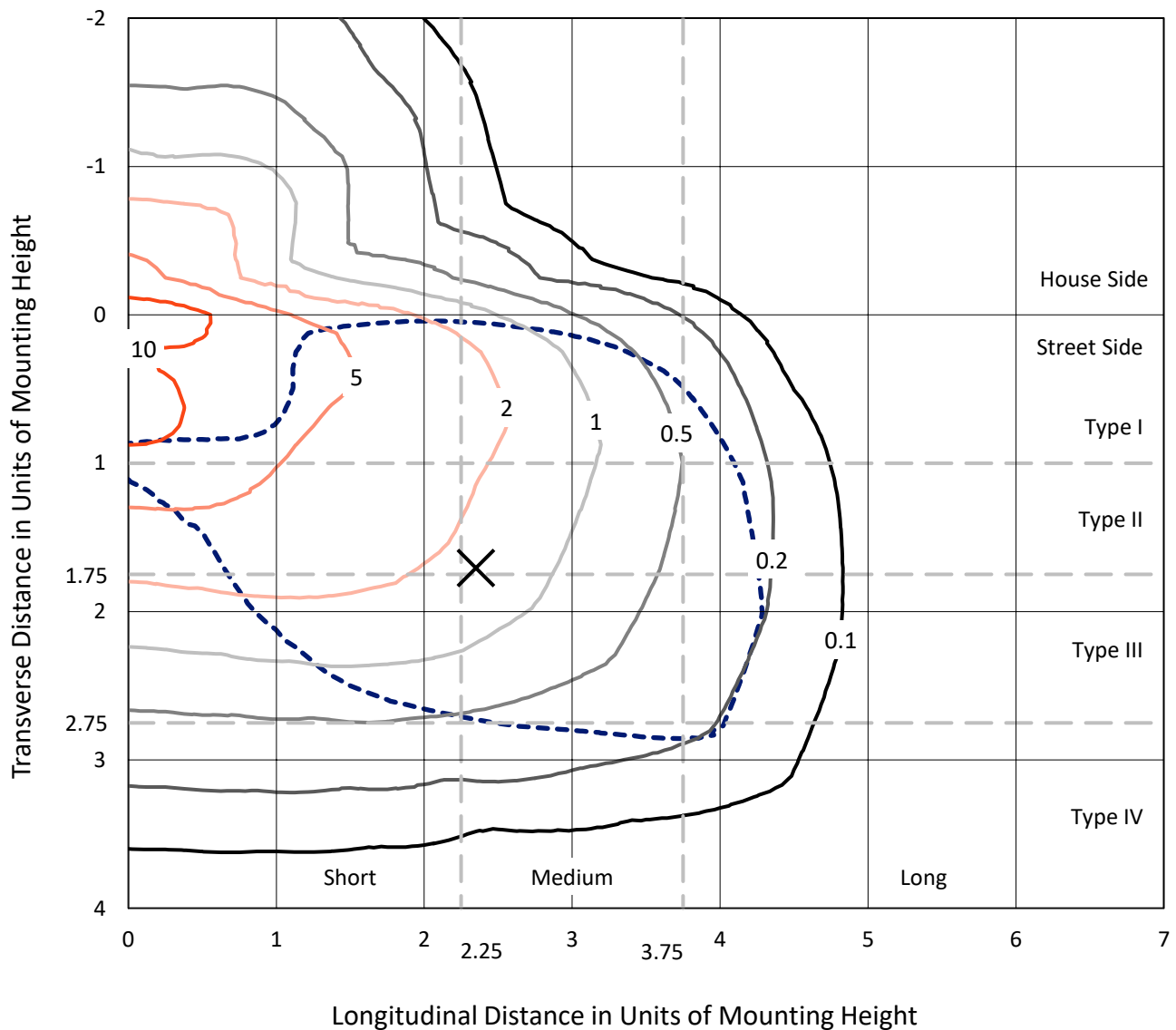


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

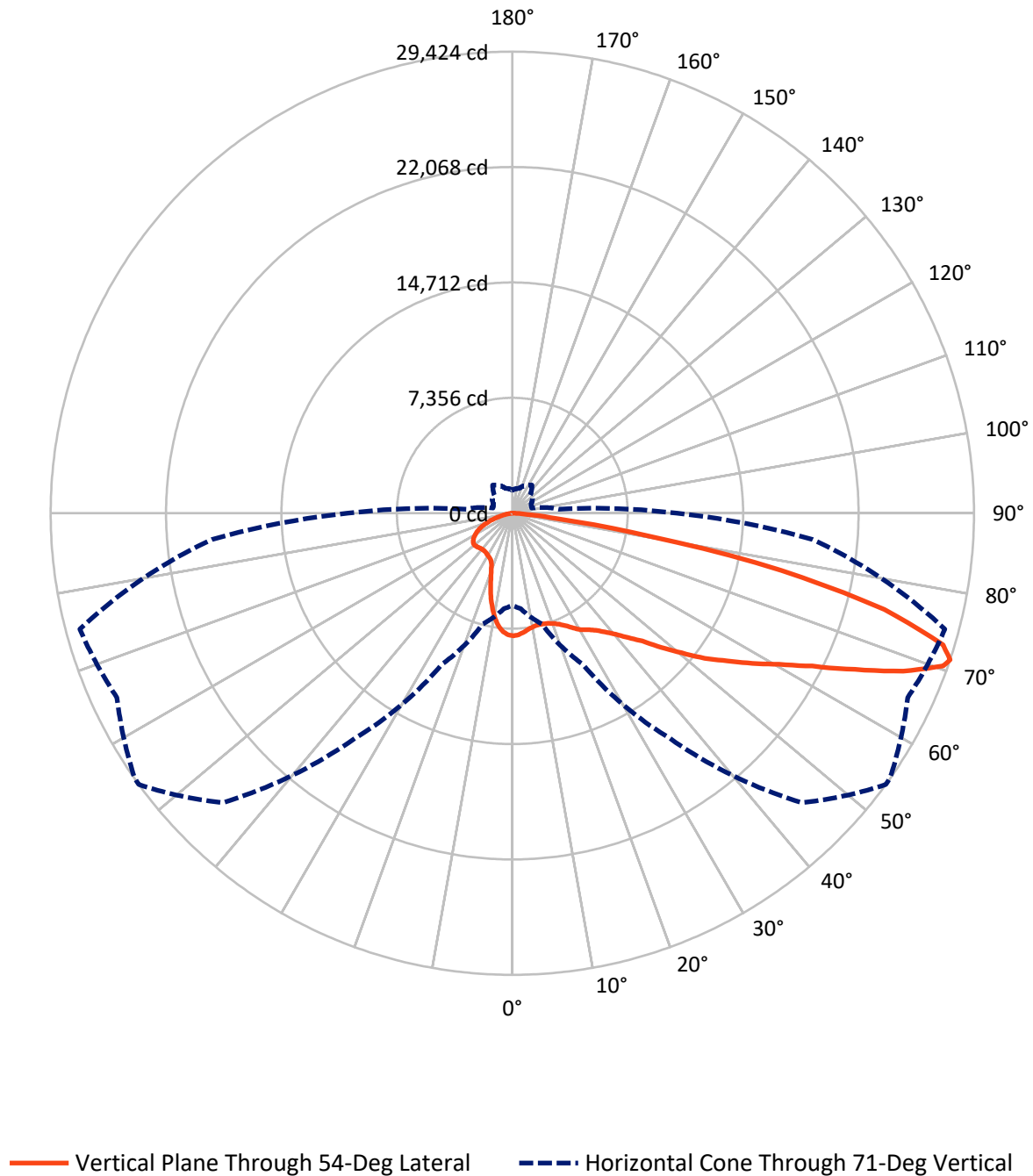


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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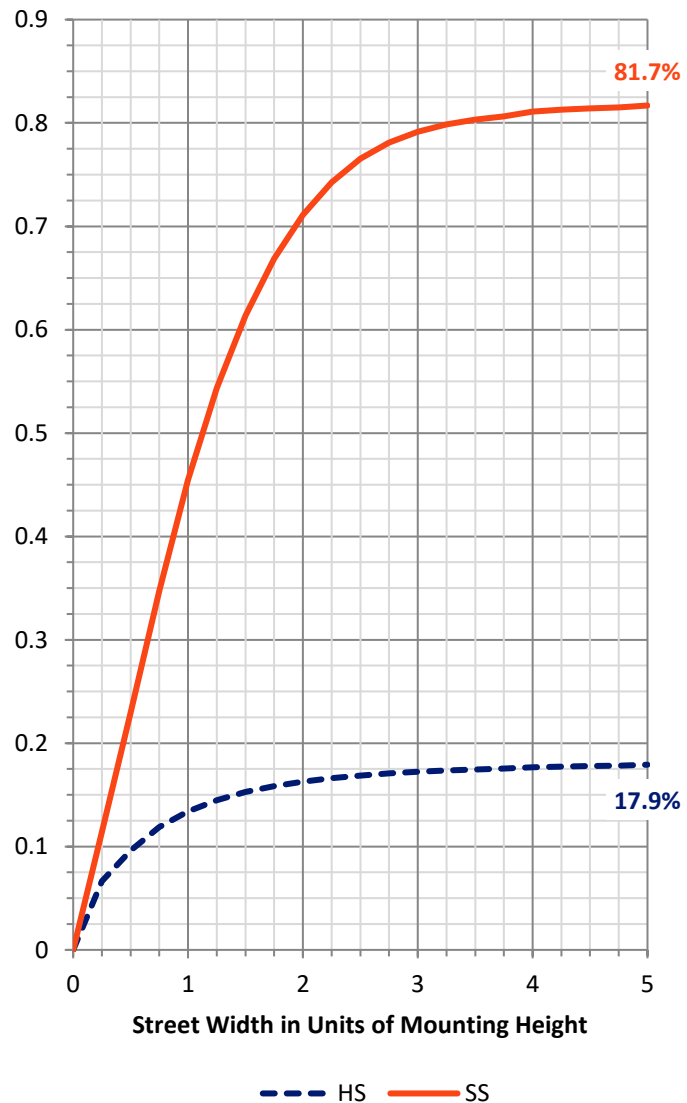
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7910.7	0.0	7910.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35905.3	0.0	35905.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	43816.0	0.0	43816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.7	1.6
10°-20°	1839.5	4.2
20°-30°	3062.9	7.0
30°-40°	4529.0	10.3
40°-50°	6379.2	14.6
50°-60°	8542.0	19.5
60°-70°	10766.6	24.6
70°-80°	7353.5	16.8
80°-90°	646.7	1.5
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°	43816.0	100.0
0°-180°	43816.0	100.0

Coefficient of Utilization



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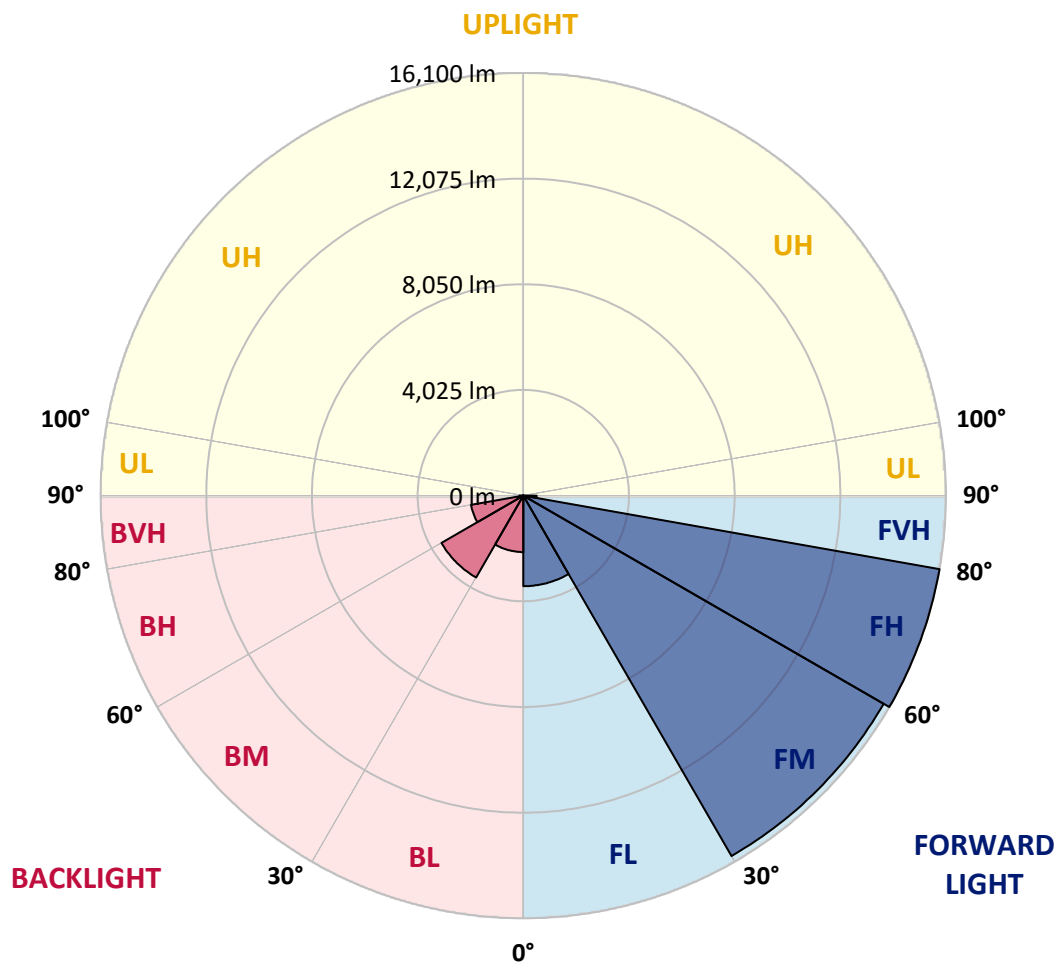
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3449.0	7.9			
FM	(30°-60°)	15851.1	36.2			
FH	(60°-80°)	16099.7	36.7			G5
FVH	(80°-90°)	505.5	1.2			G4/750
BL	(0°-30°)	2150.0	4.9	B3/2500		
BM	(30°-60°)	3599.1	8.2	B3/5000		
BH	(60°-80°)	2020.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	141.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4
2.5°	7552.3	7587.8	7597.3	7621.0	7670.7	7710.9	7751.2	7746.4	7803.2	7826.9	7848.2
5°	7216.3	7225.7	7261.2	7308.6	7396.1	7507.4	7616.2	7618.6	7758.3	7869.5	7923.9
7.5°	6970.1	7000.9	7024.6	7074.3	7166.6	7287.3	7460.0	7474.2	7722.8	7942.9	8058.8
10°	6809.2	6844.7	6870.7	6932.3	7024.6	7159.5	7346.4	7372.5	7696.7	8058.8	8262.4
12.5°	6662.4	6697.9	6721.6	6802.1	6922.8	7088.5	7299.1	7329.9	7706.2	8193.7	8484.9
15°	6752.4	6780.8	6771.3	6795.0	6875.5	7064.8	7318.0	7348.8	7741.7	8323.9	8705.0
17.5°	7152.4	7176.0	7097.9	7008.0	6970.1	7109.8	7377.2	7410.3	7812.7	8458.8	8929.8
20°	7741.7	7805.6	7635.2	7434.0	7251.8	7270.7	7500.3	7535.8	7912.1	8593.7	9159.4
22.5°	8508.5	8555.9	8347.6	8016.2	7680.2	7507.4	7684.9	7706.2	8061.2	8768.9	9410.3
25°	9410.3	9438.7	9149.9	8723.9	8238.7	7912.1	7938.1	7976.0	8307.3	8967.7	9632.7
27.5°	10286.0	10375.9	10042.2	9521.5	8882.5	8338.1	8286.0	8309.7	8574.8	9078.9	9786.6
30°	11325.0	11317.9	10965.2	10361.7	9542.8	8802.0	8615.0	8610.3	8719.2	9133.3	9897.8
32.5°	12153.3	12250.4	11904.8	11246.9	10297.8	9282.5	8842.2	8832.8	8830.4	9228.0	10063.5
35°	13095.3	13109.5	12792.4	12129.7	11114.3	9886.0	9159.4	9112.0	9057.6	9431.6	10288.3
37.5°	13937.9	14004.1	13713.0	12969.9	11916.7	10513.2	9594.9	9564.1	9398.4	9784.2	10648.1
40°	14595.8	14645.5	14470.4	13762.7	12707.2	11190.1	10148.7	10091.9	9890.7	10361.7	11128.5
42.5°	14811.2	14913.0	14981.6	14633.7	13616.0	11992.4	10830.3	10759.3	10605.5	11237.4	11682.3
45°	14827.8	14988.7	15350.8	15367.4	14529.6	12953.3	11625.5	11575.8	11564.0	12359.2	12461.0
47.5°	14702.3	14865.6	15473.9	15802.9	15343.7	13923.7	12773.4	12695.3	12702.4	13746.2	13334.4
50°	14399.4	14593.5	15331.9	16082.2	15980.4	14931.9	13985.2	13959.2	14105.9	15329.5	14240.8
52.5°	13829.0	14063.3	15185.2	16257.3	16453.7	15800.5	15362.7	15289.3	15660.9	17047.8	15232.5
55°	12250.4	12603.0	14647.9	16354.3	16903.4	16631.3	16602.9	16735.4	17227.7	18922.3	16323.6
57.5°	11426.7	11691.8	13481.1	16370.9	17471.5	17596.9	18051.3	18084.4	18945.9	20912.7	17556.7
60°	10977.1	11211.4	12842.1	16262.0	18264.3	18792.1	19532.9	19651.2	20624.0	23068.9	18834.7
62.5°	10584.2	10785.3	12458.6	15885.7	19159.0	20564.8	21452.4	21509.2	22529.2	25449.8	20096.2
65°	9658.8	9888.3	11687.1	15509.4	19930.5	22780.1	23999.0	23932.7	24557.5	27504.2	20886.7
67.5°	8411.5	8702.6	10245.7	14210.1	20311.6	25201.3	26867.5	26784.7	26559.8	28850.9	21113.9
70°	6818.6	6974.9	8402.0	11964.0	18789.7	26472.3	29132.5	29044.9	27800.0	29028.4	20039.4
71°	5867.2	6111.0	7315.7	10626.8	17523.5	26084.1	29423.6	29399.9	27802.4	28538.4	19230.0
72.5°	4579.7	4728.8	5793.8	8234.0	14894.0	23878.3	28704.1	28794.1	27198.9	27177.6	17561.4
75°	2896.9	2963.2	3635.4	4847.1	8172.4	16910.5	24503.1	24746.9	24150.5	22245.2	13059.8
77.5°	1682.8	1768.0	2177.4	2856.7	3531.2	9178.3	17533.0	17798.1	16780.4	12248.0	5346.5
80°	979.8	1074.5	1434.3	1659.1	1621.2	3405.8	8927.4	9379.5	7266.0	3093.4	1500.5
82.5°	544.4	608.3	1008.2	1010.6	863.9	1112.4	2809.3	2939.5	2073.3	1247.3	613.0
85°	395.2	447.3	650.9	589.3	414.2	478.1	977.5	1024.8	837.8	525.4	198.8
87.5°	139.6	198.8	357.4	284.0	113.6	99.4	281.6	229.6	213.0	146.7	45.0
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°	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4	7817.4
2.5°	7860.0	7864.8	7841.1	7798.5	7755.9	7701.5	7639.9	7592.6	7571.3	7568.9	7566.5
5°	7945.2	7957.1	7867.1	7734.6	7587.8	7408.0	7254.1	7079.0	7034.0	6963.0	6984.3
7.5°	8082.5	8075.4	7897.9	7616.2	7273.1	6892.0	6570.1	6383.2	6189.1	6134.7	6137.0
10°	8278.9	8234.0	7897.9	7374.8	6802.1	6236.4	5786.7	5502.7	5348.9	5221.1	5173.7
12.5°	8487.2	8373.6	7822.2	7036.4	6196.2	5502.7	5019.9	4636.5	4537.1	4432.9	4435.3
15°	8686.0	8496.7	7673.1	6560.7	5543.0	4719.3	4250.7	4021.1	3990.4	4002.2	3999.8
17.5°	8865.9	8584.3	7445.8	6030.5	4780.9	4047.2	3798.7	3815.2	3898.1	3957.2	3964.3
20°	9048.1	8636.3	7107.4	5320.5	4061.4	3640.1	3649.6	3779.7	3905.2	3985.6	3997.5
22.5°	9220.9	8660.0	6709.8	4634.1	3540.7	3467.3	3606.9	3746.6	3869.7	3947.8	3959.6
25°	9334.5	8605.6	6146.5	3917.0	3285.1	3405.8	3552.5	3670.9	3775.0	3855.5	3874.4
27.5°	9365.3	8430.4	5448.3	3337.1	3166.7	3346.6	3481.5	3569.1	3649.6	3725.3	3739.5
30°	9348.7	8172.4	4681.5	2996.3	3098.1	3278.0	3382.1	3446.0	3543.0	3602.2	3614.0
32.5°	9322.7	7871.9	3881.5	2814.1	3041.3	3214.1	3275.6	3332.4	3330.0	3306.4	3322.9
35°	9332.2	7512.1	3233.0	2705.2	2991.6	3166.7	3218.8	3147.8	2944.3	2934.8	2925.3
37.5°	9381.9	7157.1	2762.0	2629.5	2965.6	3159.6	3188.0	2861.4	2681.5	2598.7	2577.4
40°	9509.7	6742.9	2452.0	2572.7	2963.2	3214.1	3048.4	2717.0	2371.5	2210.6	2198.7
42.5°	9680.1	6335.8	2262.6	2537.2	2991.6	3296.9	2991.6	2513.5	2137.2	2042.5	2028.3
45°	9933.3	5869.6	2158.5	2520.6	3034.2	3327.7	2972.7	2364.4	2042.5	1966.8	1966.8
47.5°	10219.7	5424.6	2101.7	2508.8	3088.6	3306.4	2804.6	2317.1	1997.5	2007.0	2052.0
50°	10503.7	5038.8	2059.1	2482.7	3136.0	3294.5	2736.0	2314.7	2009.4	2130.1	2210.6
52.5°	10832.7	4766.7	2007.0	2440.1	3136.0	3218.8	2714.7	2362.0	2042.5	2078.0	2113.5
55°	11230.3	4681.5	1940.7	2347.8	3079.2	3029.5	2702.8	2430.7	2066.2	1983.3	1997.5
57.5°	11755.7	4818.7	1876.8	2231.9	2949.0	2833.0	2698.1	2449.6	2011.7	1943.1	1928.9
60°	12366.3	5090.9	1857.9	2113.5	2771.5	2665.0	2669.7	2395.2	1936.0	1865.0	1876.8
62.5°	12794.7	5254.2	1846.1	2023.6	2577.4	2480.4	2601.1	2328.9	1902.9	1841.3	1853.2
65°	12794.7	5055.4	1737.2	1886.3	2326.5	2257.9	2518.2	2246.1	1860.3	1789.3	1777.4
67.5°	12309.5	4475.6	1571.5	1680.4	2049.6	2004.6	2402.3	2146.7	1796.4	1741.9	1713.5
70°	11045.7	3393.9	1363.3	1439.0	1699.3	1739.6	2253.2	2011.7	1689.9	1623.6	1581.0
71°	10489.5	2956.1	1275.7	1315.9	1564.4	1623.6	2182.2	1954.9	1642.5	1547.9	1472.1
72.5°	9417.4	2489.8	1143.1	1159.7	1337.2	1443.7	2033.1	1846.1	1552.6	1417.7	1332.5
75°	7154.7	1817.7	920.7	911.2	989.3	1145.5	1720.6	1644.9	1360.9	1178.6	1128.9
77.5°	3091.0	989.3	688.7	695.8	672.2	868.6	1353.8	1413.0	1166.8	958.5	913.6
80°	937.2	570.4	471.0	480.5	449.7	582.2	953.8	1107.6	937.2	745.5	684.0
82.5°	480.5	340.8	321.9	317.1	286.4	329.0	577.5	757.4	669.8	466.3	411.8
85°	208.3	182.2	158.6	153.8	134.9	118.3	205.9	378.7	355.0	260.3	248.5
87.5°	52.1	47.3	30.8	28.4	16.6	2.4	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)