

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: P457348

Luminaire Tested: **GALN-SA8C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457348
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-SA8C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46165 lumens
Efficiency: N/A
Efficacy: 107.6 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): 429
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

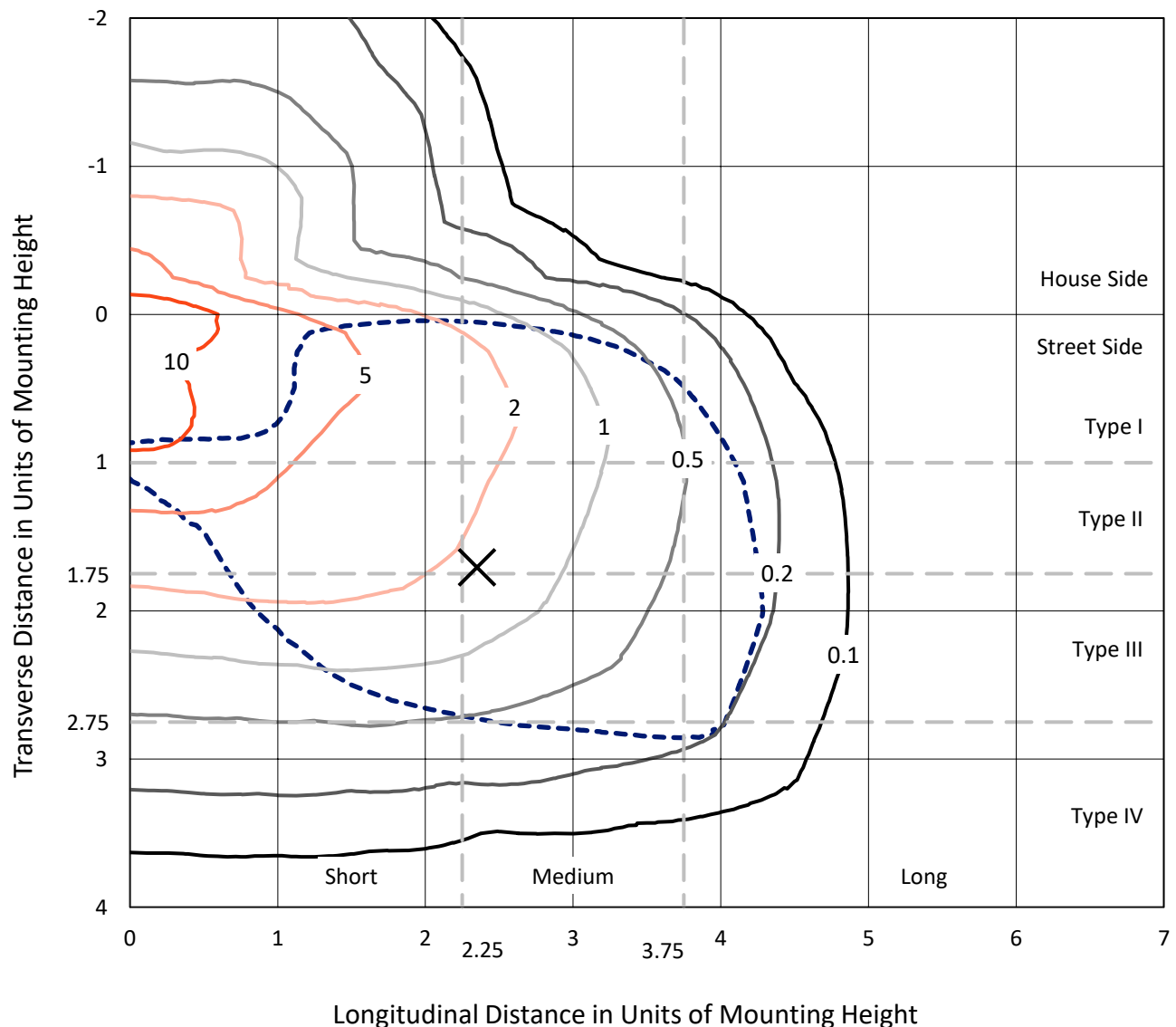


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

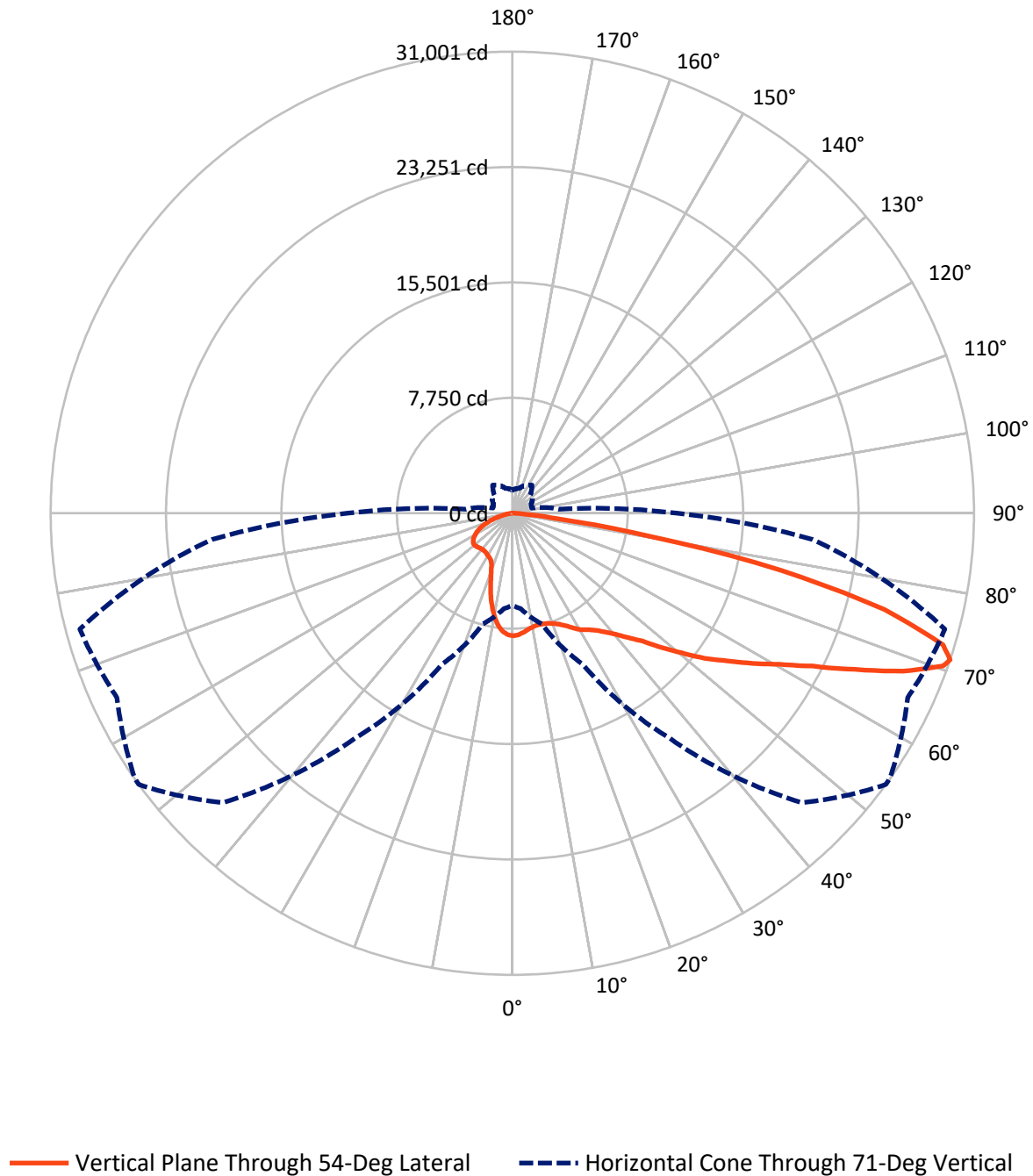


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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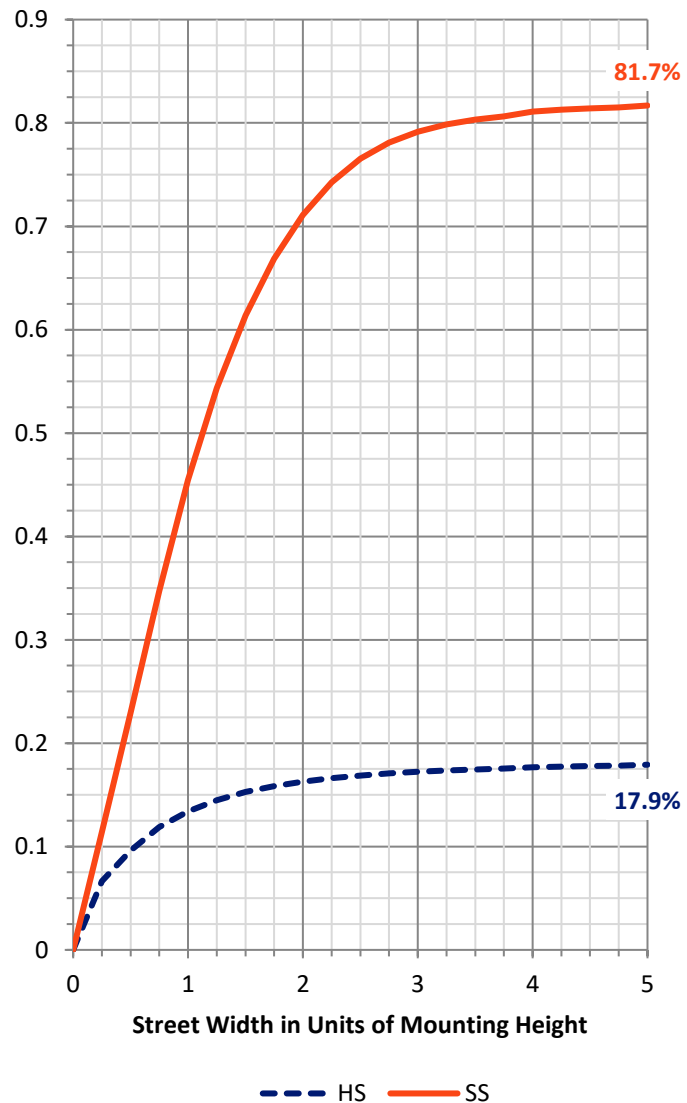
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8334.8	0.0	8334.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37830.2	0.0	37830.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	46165.0	0.0	46165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.0	1.6
10°-20°	1938.1	4.2
20°-30°	3227.1	7.0
30°-40°	4771.8	10.3
40°-50°	6721.2	14.6
50°-60°	9000.0	19.5
60°-70°	11343.8	24.6
70°-80°	7747.8	16.8
80°-90°	681.4	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°	46165.0	100.0
0°-180°	46165.0	100.0

Coefficient of Utilization



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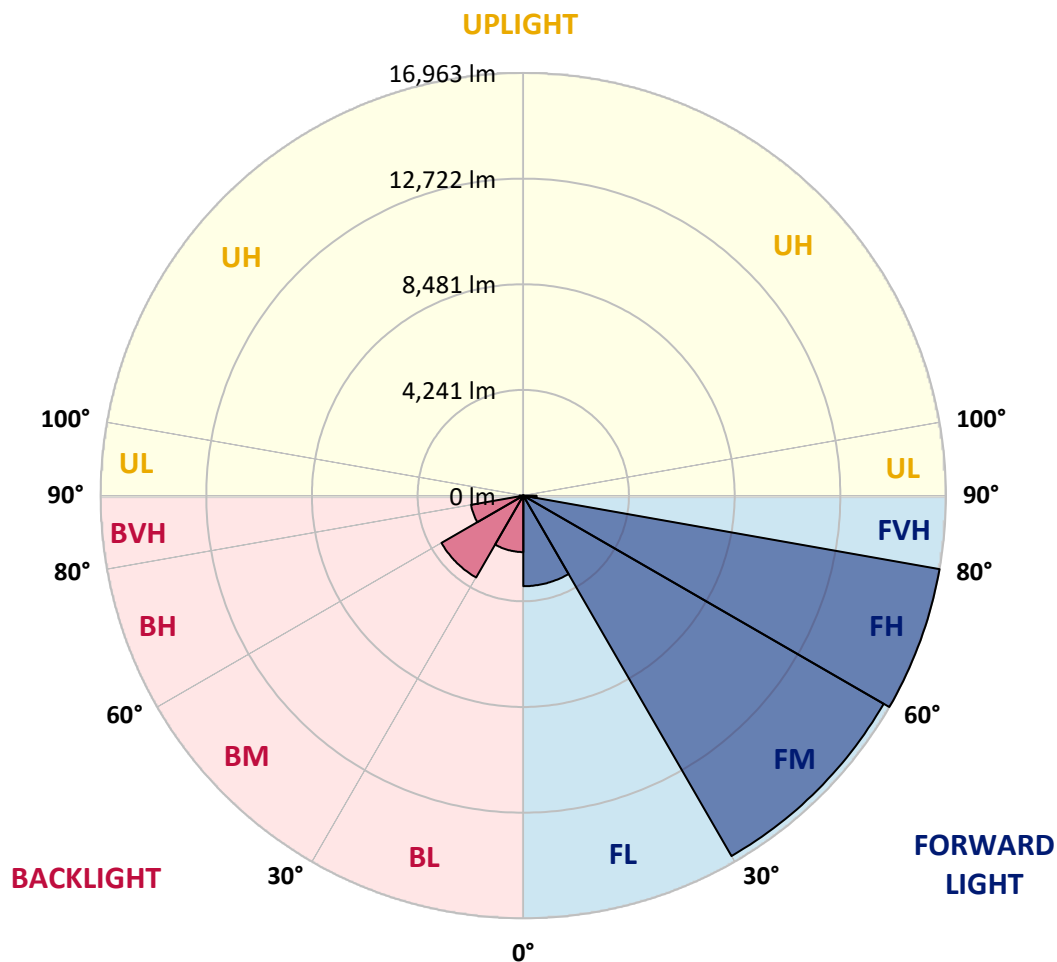
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3633.9	7.9			
FM	(30°-60°)	16700.8	36.2			
FH	(60°-80°)	16962.8	36.7			G5
FVH	(80°-90°)	532.6	1.2			G4/750
BL	(0°-30°)	2265.2	4.9	B3/2500		
BM	(30°-60°)	3792.1	8.2	B3/5000		
BH	(60°-80°)	2128.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	148.8	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°	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5
2.5°	7957.2	7994.6	8004.6	8029.5	8081.9	8124.3	8166.7	8161.7	8221.6	8246.5	8268.9
5°	7603.1	7613.1	7650.5	7700.4	7792.7	7909.9	8024.6	8027.1	8174.2	8291.4	8348.7
7.5°	7343.8	7376.2	7401.1	7453.5	7550.8	7677.9	7860.0	7874.9	8136.8	8368.7	8490.9
10°	7174.2	7211.6	7239.1	7303.9	7401.1	7543.3	7740.3	7767.7	8109.3	8490.9	8705.3
12.5°	7019.6	7057.0	7082.0	7166.7	7293.9	7468.5	7690.4	7722.8	8119.3	8633.0	8939.7
15°	7114.4	7144.3	7134.3	7159.3	7244.0	7443.5	7710.4	7742.8	8156.7	8770.2	9171.6
17.5°	7535.8	7560.7	7478.5	7383.7	7343.8	7490.9	7772.7	7807.6	8231.5	8912.3	9408.5
20°	8156.7	8224.1	8044.5	7832.5	7640.5	7660.5	7902.4	7939.8	8336.3	9054.4	9650.4
22.5°	8964.7	9014.5	8795.1	8446.0	8091.9	7909.9	8096.9	8119.3	8493.4	9239.0	9914.7
25°	9914.7	9944.7	9640.4	9191.6	8680.4	8336.3	8363.7	8403.6	8752.7	9448.4	10149.1
27.5°	10837.4	10932.2	10580.5	10031.9	9358.7	8785.1	8730.3	8755.2	9034.5	9565.6	10311.2
30°	11932.1	11924.6	11553.1	10917.2	10054.4	9273.9	9076.9	9071.9	9186.6	9623.0	10428.4
32.5°	12804.9	12907.1	12543.0	11849.8	10849.9	9780.1	9316.3	9306.3	9303.8	9722.7	10603.0
35°	13797.4	13812.3	13478.2	12779.9	11710.2	10416.0	9650.4	9600.5	9543.2	9937.2	10839.9
37.5°	14685.1	14754.9	14448.2	13665.2	12555.5	11076.8	10109.2	10076.8	9902.3	10308.7	11218.9
40°	15378.3	15430.7	15246.2	14500.6	13388.4	11790.0	10692.8	10632.9	10421.0	10917.2	11725.1
42.5°	15605.2	15712.5	15784.8	15418.2	14346.0	12635.3	11410.9	11336.1	11174.0	11839.8	12308.6
45°	15622.7	15792.3	16173.8	16191.3	15308.5	13647.7	12248.8	12196.4	12184.0	13021.8	13129.1
47.5°	15490.5	15662.6	16303.5	16650.1	16166.3	14670.1	13458.2	13375.9	13383.4	14483.1	14049.2
50°	15171.4	15375.8	16153.9	16944.3	16837.1	15732.4	14735.0	14707.5	14862.1	16151.4	15004.3
52.5°	14570.4	14817.3	15999.2	17128.9	17335.8	16647.6	16186.3	16109.0	16500.5	17961.7	16049.1
55°	12907.1	13278.7	15433.2	17231.1	17809.6	17522.9	17492.9	17632.6	18151.3	19936.7	17198.7
57.5°	12039.3	12318.6	14203.8	17248.6	18408.1	18540.3	19019.1	19054.0	19961.7	22033.9	18497.9
60°	11565.5	11812.4	13530.5	17133.9	19243.5	19799.6	20580.1	20704.8	21729.6	24305.6	19844.5
62.5°	11151.6	11363.6	13126.6	16737.4	20186.1	21667.3	22602.4	22662.3	23737.0	26814.2	21173.6
65°	10176.6	10418.5	12313.6	16340.9	20999.0	24001.4	25285.6	25215.8	25874.1	28978.7	22006.4
67.5°	8862.4	9169.1	10795.0	14971.9	21400.5	26552.4	28307.9	28220.6	27983.7	30397.6	22245.8
70°	7184.2	7348.8	8852.5	12605.4	19797.1	27891.5	30694.3	30602.0	29290.4	30584.6	21113.7
71°	6181.8	6438.6	7707.9	11196.5	18463.0	27482.5	31001.0	30976.1	29292.9	30068.4	20260.9
72.5°	4825.2	4982.3	6104.5	8675.4	15692.5	25158.4	30243.0	30337.7	28657.0	28634.6	18502.9
75°	3052.2	3122.0	3830.2	5107.0	8610.6	17817.1	25816.7	26073.6	25445.2	23437.8	13760.0
77.5°	1773.0	1862.8	2294.2	3009.8	3720.5	9670.4	18472.9	18752.2	17680.0	12904.6	5633.2
80°	1032.4	1132.1	1511.2	1748.0	1708.1	3588.4	9406.0	9882.3	7655.5	3259.2	1581.0
82.5°	573.5	640.9	1062.3	1064.8	910.2	1172.0	2960.0	3097.1	2184.4	1314.2	645.9
85°	416.4	471.3	685.8	620.9	436.4	503.7	1029.9	1079.7	882.8	553.6	209.5
87.5°	147.1	209.5	376.5	299.2	119.7	104.7	296.7	241.9	224.4	154.6	47.4
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°	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5	8236.5
2.5°	8281.4	8286.4	8261.5	8216.6	8171.7	8114.3	8049.5	7999.6	7977.2	7974.7	7972.2
5°	8371.2	8383.6	8288.9	8149.2	7994.6	7805.1	7643.0	7458.5	7411.1	7336.3	7358.8
7.5°	8515.8	8508.3	8321.3	8024.6	7663.0	7261.5	6922.4	6725.4	6520.9	6463.5	6466.0
10°	8722.8	8675.4	8321.3	7770.2	7166.7	6570.8	6097.0	5797.7	5635.6	5501.0	5451.1
12.5°	8942.2	8822.5	8241.5	7413.6	6528.4	5797.7	5289.0	4885.1	4780.3	4670.6	4673.1
15°	9151.7	8952.2	8084.4	6912.4	5840.1	4972.3	4478.6	4236.7	4204.3	4216.8	4214.3
17.5°	9341.2	9044.5	7845.0	6353.8	5037.2	4264.1	4002.3	4019.8	4107.0	4169.4	4176.9
20°	9533.2	9099.3	7488.4	5605.7	4279.1	3835.2	3845.2	3982.4	4114.5	4199.3	4211.8
22.5°	9715.3	9124.3	7069.5	4882.6	3730.5	3653.2	3800.3	3947.4	4077.1	4159.4	4171.9
25°	9834.9	9066.9	6476.0	4127.0	3461.2	3588.4	3743.0	3867.6	3977.4	4062.2	4082.1
27.5°	9867.4	8882.4	5740.4	3516.0	3336.5	3526.0	3668.2	3760.4	3845.2	3925.0	3940.0
30°	9849.9	8610.6	4932.4	3157.0	3264.2	3453.7	3563.4	3630.8	3733.0	3795.3	3807.8
32.5°	9822.5	8293.9	4089.6	2964.9	3204.3	3386.4	3451.2	3511.1	3508.6	3483.6	3501.1
35°	9832.5	7914.8	3406.3	2850.2	3152.0	3336.5	3391.4	3316.6	3102.1	3092.1	3082.1
37.5°	9884.8	7540.8	2910.1	2770.4	3124.5	3329.0	3358.9	3014.8	2825.3	2738.0	2715.6
40°	10019.5	7104.4	2583.4	2710.6	3122.0	3386.4	3211.8	2862.7	2498.6	2329.1	2316.6
42.5°	10199.0	6675.5	2383.9	2673.2	3152.0	3473.7	3152.0	2648.3	2251.8	2152.0	2137.1
45°	10465.8	6184.2	2274.2	2655.7	3196.9	3506.1	3132.0	2491.2	2152.0	2072.2	2072.2
47.5°	10767.6	5715.4	2214.4	2643.3	3254.2	3483.6	2955.0	2441.3	2104.6	2114.6	2162.0
50°	11066.8	5309.0	2169.5	2615.8	3304.1	3471.2	2882.7	2438.8	2117.1	2244.3	2329.1
52.5°	11413.4	5022.2	2114.6	2571.0	3304.1	3391.4	2860.2	2488.7	2152.0	2189.4	2226.8
55°	11832.4	4932.4	2044.8	2473.7	3244.2	3191.9	2847.7	2561.0	2177.0	2089.7	2104.6
57.5°	12385.9	5077.1	1977.5	2351.5	3107.1	2984.9	2842.8	2580.9	2119.6	2047.3	2032.3
60°	13029.3	5363.8	1957.5	2226.8	2920.1	2807.8	2812.8	2523.6	2039.8	1965.0	1977.5
62.5°	13480.7	5535.9	1945.0	2132.1	2715.6	2613.3	2740.5	2453.7	2004.9	1940.1	1952.5
65°	13480.7	5326.4	1830.3	1987.4	2451.3	2378.9	2653.2	2366.5	1960.0	1885.2	1872.7
67.5°	12969.5	4715.5	1655.8	1770.5	2159.5	2112.1	2531.1	2261.7	1892.7	1835.3	1805.4
70°	11637.9	3575.9	1436.3	1516.1	1790.4	1832.8	2374.0	2119.6	1780.5	1710.6	1665.8
71°	11051.8	3114.6	1344.1	1386.5	1648.3	1710.6	2299.1	2059.8	1730.6	1630.8	1551.0
72.5°	9922.2	2623.3	1204.4	1221.9	1408.9	1521.1	2142.0	1945.0	1635.8	1493.7	1403.9
75°	7538.3	1915.1	970.0	960.1	1042.3	1206.9	1812.9	1733.1	1433.8	1241.8	1189.5
77.5°	3256.7	1042.3	725.7	733.1	708.2	915.2	1426.4	1488.7	1229.4	1009.9	962.5
80°	987.5	601.0	496.2	506.2	473.8	613.4	1004.9	1167.0	987.5	785.5	720.7
82.5°	506.2	359.1	339.1	334.1	301.7	346.6	608.5	798.0	705.7	491.2	433.9
85°	219.4	192.0	167.1	162.1	142.1	124.7	216.9	399.0	374.0	274.3	261.8
87.5°	54.9	49.9	32.4	29.9	17.5	2.5	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)