

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: P456416

Luminaire Tested: **GALN-SA7C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39657 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 377
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

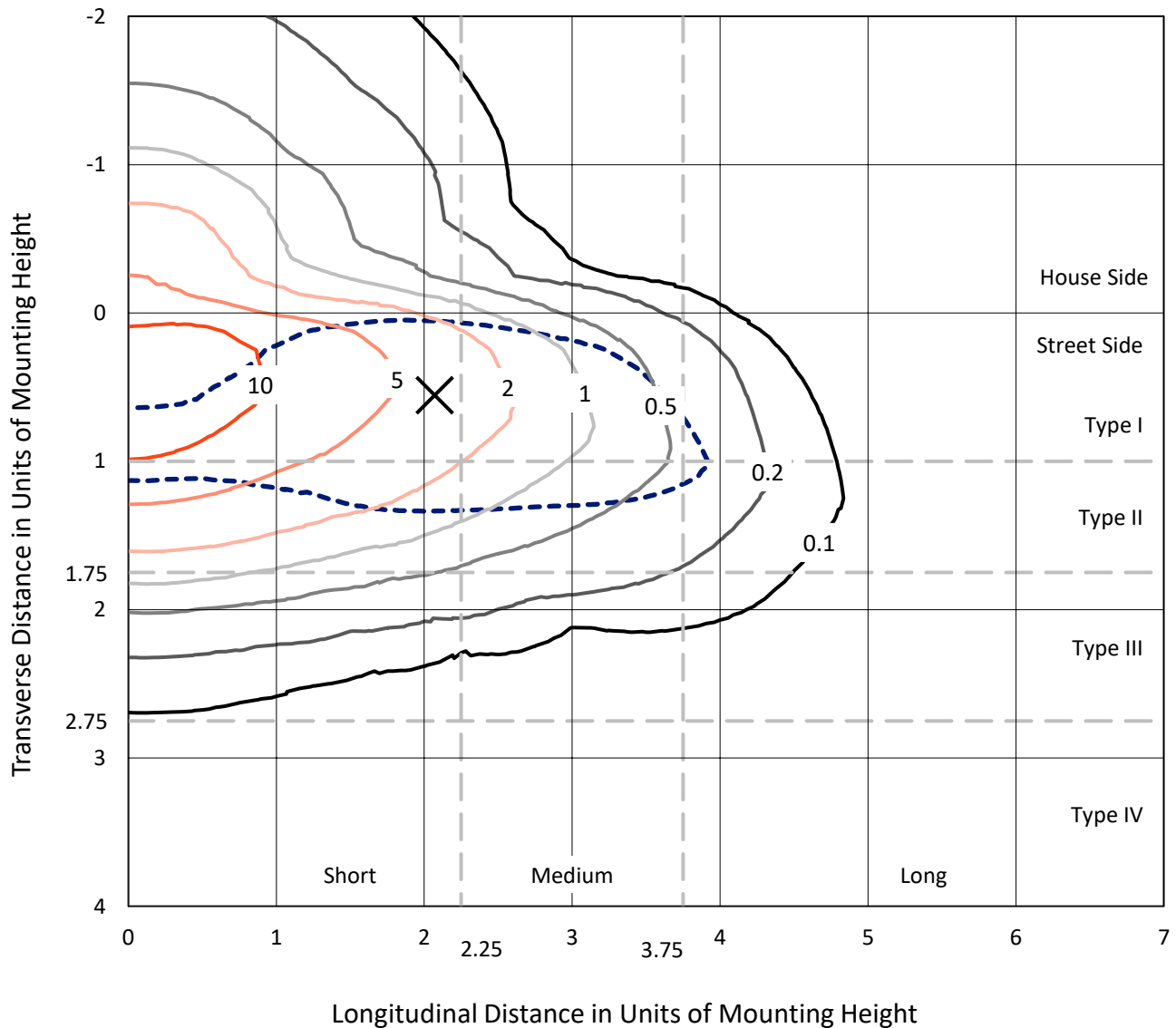


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

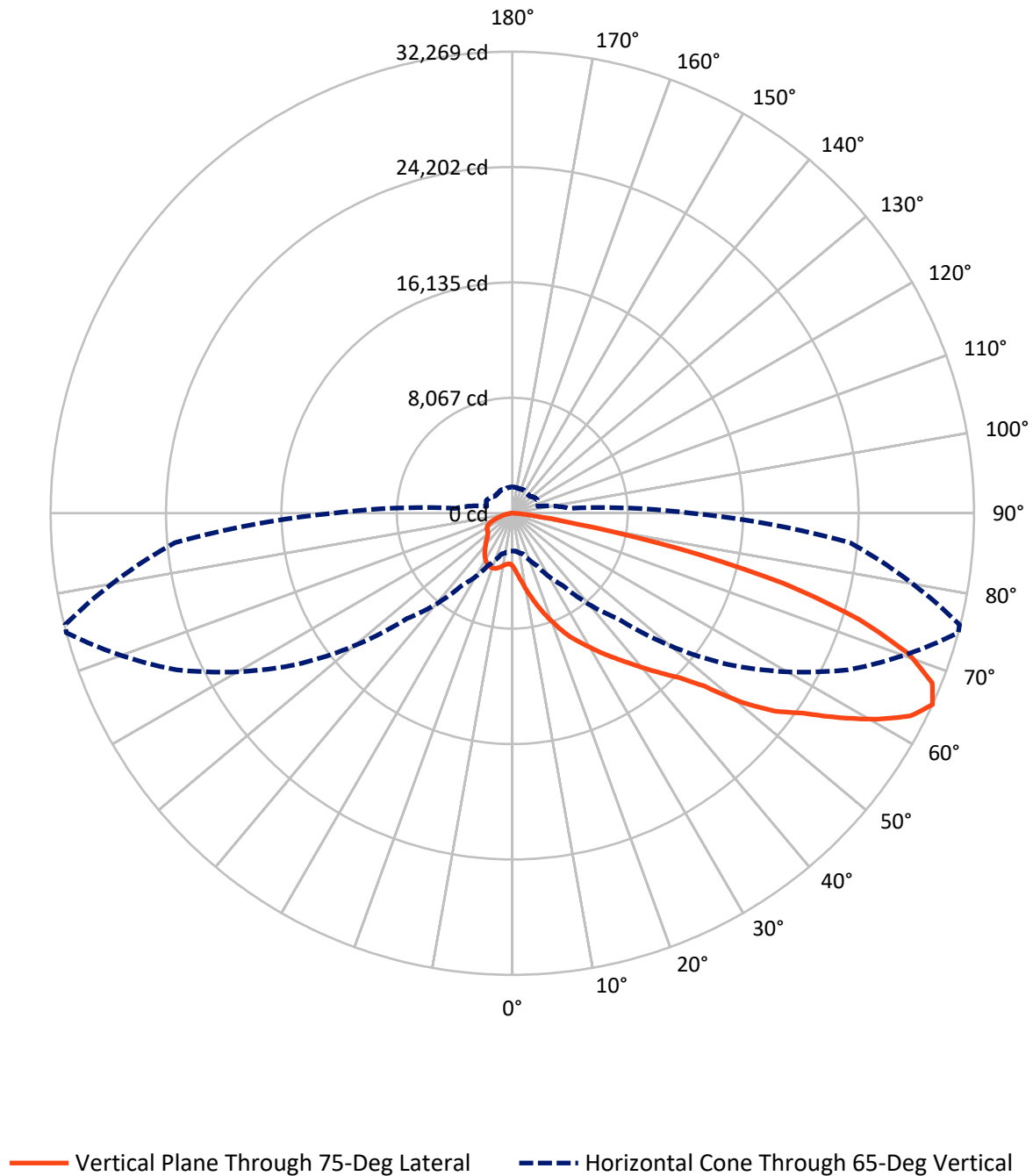


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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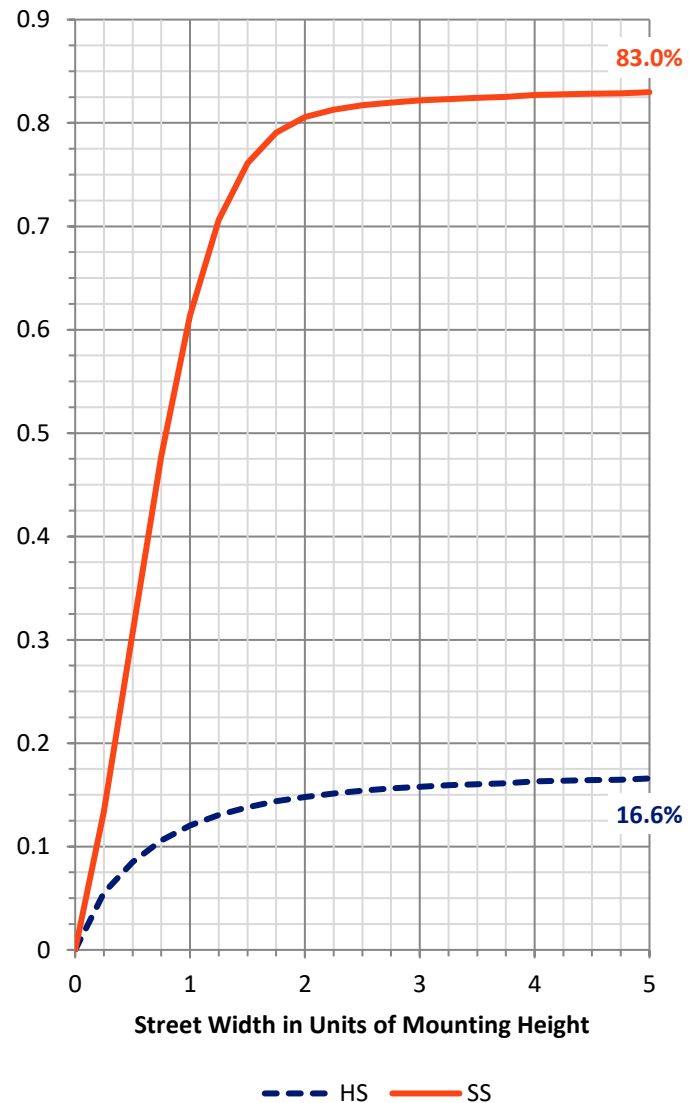
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6666.9	0.0	6666.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32990.1	0.0	32990.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	39657.0	0.0	39657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.7	1.1
10°-20°	1753.5	4.4
20°-30°	3387.1	8.5
30°-40°	5501.7	13.9
40°-50°	7568.1	19.1
50°-60°	8935.3	22.5
60°-70°	7828.8	19.7
70°-80°	3737.5	9.4
80°-90°	497.3	1.3
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°	39657.0	100.0
0°-180°	39657.0	100.0

Coefficient of Utilization



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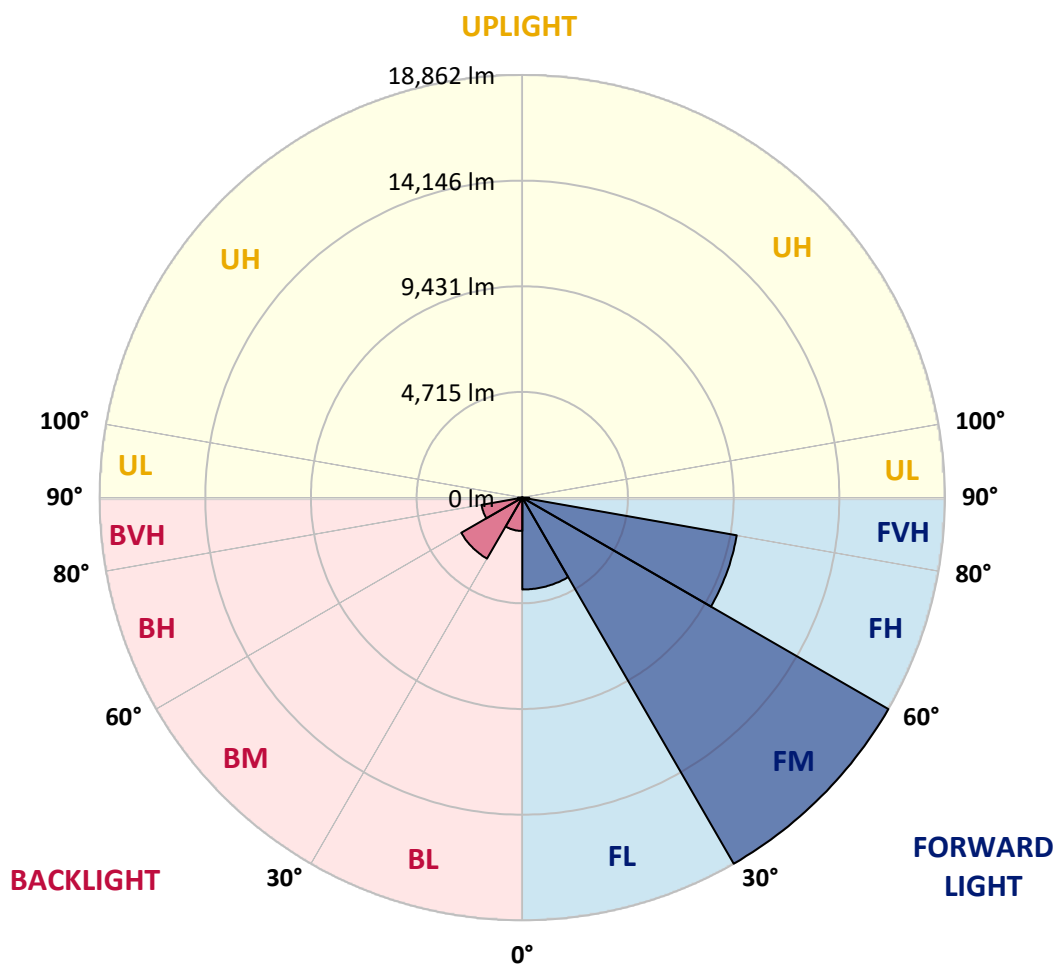
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4099.9	10.3			
FM	(30°-60°)	18861.7	47.6			
FH	(60°-80°)	9717.7	24.5			G4/12000
FVH	(80°-90°)	310.8	0.8			G3/500
BL	(0°-30°)	1488.4	3.8	B3/2500		
BM	(30°-60°)	3143.4	7.9	B3/5000		
BH	(60°-80°)	1848.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	186.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6
2.5°	4895.6	4863.4	4829.0	4734.3	4633.2	4519.2	4355.7	4198.7	3990.1	3983.6	3828.8
5°	6252.9	6231.4	6078.7	5990.5	5756.0	5444.1	5179.6	4768.7	4388.0	4342.8	4041.7
7.5°	7500.5	7416.6	7358.5	7199.3	6967.0	6567.0	6055.0	5500.1	4863.4	4803.1	4304.1
10°	8440.5	8431.9	8401.7	8264.1	8089.9	7691.9	7124.1	6328.2	5465.7	5347.3	4622.5
12.5°	9143.8	9150.3	9146.0	9143.8	9019.1	8681.4	8066.2	7227.3	6074.4	5990.5	4990.3
15°	9606.3	9670.8	9696.6	9804.2	9814.9	9589.1	9059.9	8096.3	6760.5	6635.8	5386.1
17.5°	9911.7	9944.0	10064.5	10247.3	10395.7	10354.8	9883.8	8900.8	7461.8	7253.1	5796.9
20°	10204.3	10260.2	10352.7	10602.2	10864.6	10985.1	10653.8	9724.6	8156.5	8023.2	6250.8
22.5°	10813.0	10892.6	10924.8	11051.8	11275.5	11488.4	11337.8	10514.0	8918.0	8737.3	6732.6
25°	11843.3	11927.2	11836.9	11806.8	11879.9	11985.3	11953.0	11258.3	9636.4	9378.3	7188.6
27.5°	13185.5	13196.3	13019.9	12852.1	12671.4	12617.7	12518.7	11918.6	10260.2	10045.1	7646.7
30°	14626.7	14575.1	14282.5	13979.2	13673.8	13372.7	13088.7	12555.3	10955.0	10707.6	8096.3
32.5°	15964.6	15936.6	15611.8	15140.8	14624.5	14340.6	13766.3	13198.4	11699.2	11460.4	8558.8
35°	16967.0	17007.8	16650.8	16136.7	15573.1	15321.5	14596.6	13873.8	12469.3	12209.0	9062.1
37.5°	17678.9	17657.4	17341.2	16896.0	16401.3	16181.9	15566.7	14611.6	13297.4	13047.9	9612.7
40°	17932.8	17919.9	17685.4	17360.6	17046.6	16969.1	16581.9	15407.5	14246.0	13953.4	10275.3
42.5°	17771.4	17799.4	17644.5	17556.3	17498.3	17554.2	17590.7	16450.7	15280.6	15011.7	10993.7
45°	17276.7	17261.6	17240.1	17384.3	17711.2	18079.0	18588.8	17435.9	16405.6	16190.5	11957.3
47.5°	16392.7	16500.2	16554.0	16951.9	17666.0	18537.2	19737.4	18756.6	18038.2	17851.0	13426.4
50°	15155.8	15241.9	15560.2	16267.9	17332.6	18709.3	20860.2	20916.2	20761.3	20410.7	15022.5
52.5°	13224.3	13357.6	14013.7	15310.7	16648.6	18638.3	21540.0	22768.2	22972.5	22710.1	16594.8
55°	11062.5	11249.6	11942.3	13643.7	15706.5	18251.1	22008.9	23841.5	24656.7	24413.7	18109.1
57.5°	8945.9	9143.8	9855.8	11503.5	14063.1	17395.0	22316.5	25037.5	26949.7	26633.5	19993.4
60°	6704.6	6911.1	7522.0	9219.1	11722.9	15721.5	22107.8	26074.2	29240.5	29105.0	21879.8
62.5°	4325.6	4553.6	5084.9	6489.5	9010.5	13435.0	20991.5	26646.4	31223.7	31060.2	23256.4
65°	2635.0	2660.8	2953.3	4028.8	6166.9	10402.2	18438.2	25887.1	32269.1	32219.6	23675.9
67.5°	1703.6	1744.4	1877.8	2413.4	3697.5	7225.2	14742.8	23381.2	31658.2	31641.0	22809.0
70°	1439.0	1451.9	1512.1	1628.3	2148.8	4381.6	10352.7	19386.8	29337.3	29337.3	20724.7
72.5°	1286.3	1303.5	1325.0	1361.6	1533.7	2482.2	6177.6	15091.3	25330.0	25497.8	17640.2
75°	1168.0	1163.7	1176.6	1183.0	1307.8	1621.8	3194.2	11161.5	19595.5	19259.9	12774.7
77.5°	1000.2	1006.7	1000.2	1028.2	1155.1	1234.7	1621.8	7489.7	11875.6	11441.1	6412.1
80°	821.7	832.4	843.2	860.4	987.3	937.8	974.4	3413.6	4392.3	4299.8	1981.1
82.5°	617.3	632.4	649.6	690.5	776.5	619.5	615.2	1458.4	1585.3	1451.9	729.2
85°	249.5	294.7	445.3	486.1	488.3	339.9	378.6	608.7	647.4	632.4	286.1
87.5°	58.1	68.8	144.1	217.2	200.0	126.9	139.8	197.9	225.9	208.6	96.8
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°	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6
2.5°	3757.8	3682.5	3553.4	3454.5	3383.5	3321.1	3282.4	3258.7	3250.1	3248.0	3250.1
5°	3884.7	3751.3	3547.0	3417.9	3346.9	3306.1	3282.4	3280.3	3282.4	3284.6	3278.1
7.5°	4058.9	3867.5	3600.7	3480.3	3426.5	3396.4	3385.6	3381.3	3383.5	3381.3	3381.3
10°	4291.2	4028.8	3706.1	3581.4	3536.2	3501.8	3484.6	3473.8	3465.2	3456.6	3452.3
12.5°	4547.2	4207.3	3820.1	3699.7	3635.2	3581.4	3542.7	3514.7	3495.3	3476.0	3471.7
15°	4833.3	4396.6	3947.1	3779.3	3686.8	3607.2	3540.5	3495.3	3460.9	3433.0	3430.8
17.5°	5106.4	4575.1	4033.1	3815.8	3680.3	3568.5	3480.3	3417.9	3374.9	3338.3	3334.0
20°	5399.0	4745.1	4071.8	3792.2	3615.8	3480.3	3364.1	3288.9	3239.4	3198.5	3192.1
22.5°	5693.7	4889.2	4067.5	3716.9	3504.0	3344.8	3222.2	3142.6	3084.5	3043.6	3028.6
25°	5975.4	5005.3	4013.7	3596.4	3349.1	3183.5	3058.7	2985.6	2933.9	2884.5	2884.5
27.5°	6229.3	5074.2	3912.6	3450.2	3189.9	3015.7	2916.7	2850.1	2802.7	2770.5	2751.1
30°	6478.8	5106.4	3775.0	3265.2	3022.1	2873.7	2794.1	2755.4	2712.4	2675.8	2671.5
32.5°	6702.5	5100.0	3602.9	3084.5	2863.0	2757.6	2725.3	2695.2	2650.0	2598.4	2585.5
35°	6919.7	5057.0	3398.6	2886.6	2729.6	2688.7	2697.3	2654.3	2572.6	2508.0	2497.3
37.5°	7156.3	4979.5	3174.9	2725.3	2617.7	2656.5	2678.0	2583.3	2450.0	2348.9	2325.2
40°	7429.5	4891.3	2942.5	2564.0	2529.6	2626.4	2626.4	2452.1	2269.3	2206.9	2189.7
42.5°	7750.0	4818.2	2749.0	2428.5	2456.4	2553.2	2542.5	2277.9	2202.6	2170.3	2161.7
45°	8257.6	4792.4	2548.9	2310.2	2396.2	2467.2	2379.0	2217.7	2174.6	2148.8	2140.2
47.5°	9059.9	4822.5	2372.5	2222.0	2327.4	2381.1	2196.2	2176.8	2146.7	2110.1	2105.8
50°	9804.2	4794.5	2247.8	2172.5	2267.1	2277.9	2120.9	2127.3	2110.1	2069.2	2060.6
52.5°	10412.9	4706.4	2168.2	2146.7	2215.5	2097.2	2049.9	2073.5	2067.1	2015.5	2006.9
55°	11081.9	4652.6	2129.5	2146.7	2181.1	1940.2	1983.2	2017.6	2009.0	1972.5	1970.3
57.5°	11892.8	4663.3	2101.5	2153.1	2146.7	1860.6	1916.5	1957.4	1955.2	1944.5	1944.5
60°	12723.1	4667.6	2058.5	2151.0	2105.8	1798.2	1847.7	1905.8	1910.1	1916.5	1916.5
62.5°	12998.4	4480.5	1974.6	2112.3	2015.5	1738.0	1783.2	1862.8	1858.5	1875.7	1877.8
65°	12484.3	3962.1	1849.8	2024.1	1899.3	1695.0	1733.7	1806.8	1783.2	1828.3	1836.9
67.5°	11363.7	3278.1	1656.3	1864.9	1770.3	1649.8	1701.4	1729.4	1686.4	1774.6	1776.7
70°	9821.4	2559.7	1411.0	1639.1	1624.0	1602.5	1675.6	1632.6	1572.4	1679.9	1658.4
72.5°	8212.5	1955.2	1127.1	1340.1	1428.3	1531.5	1630.4	1507.8	1424.0	1456.2	1417.5
75°	6169.0	1445.5	905.6	1049.7	1189.5	1430.4	1589.6	1357.3	1228.2	1198.1	1189.5
77.5°	3144.7	944.3	677.6	785.1	892.7	1292.7	1533.7	1180.9	1017.4	970.1	948.6
80°	1122.8	587.2	477.5	542.0	602.3	1112.1	1340.1	976.5	789.4	780.8	789.4
82.5°	520.5	378.6	320.5	354.9	357.1	742.1	1021.7	729.2	600.1	912.0	770.1
85°	223.7	189.3	180.7	176.4	163.5	331.3	574.3	391.5	610.9	273.2	251.7
87.5°	66.7	75.3	66.7	49.5	36.6	36.6	58.1	21.5	15.1	10.8	10.8
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)