

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: P457328

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45554 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



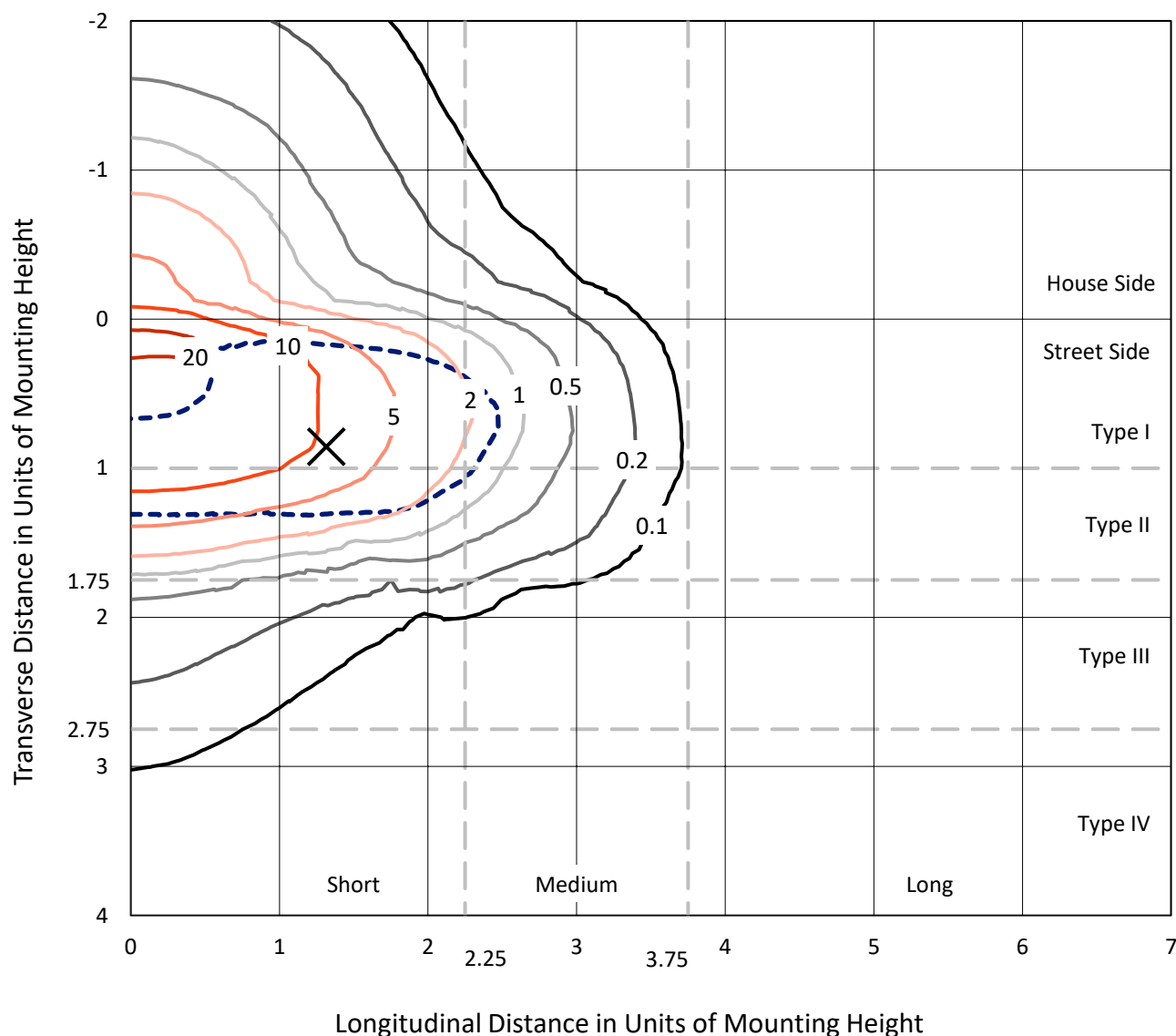
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

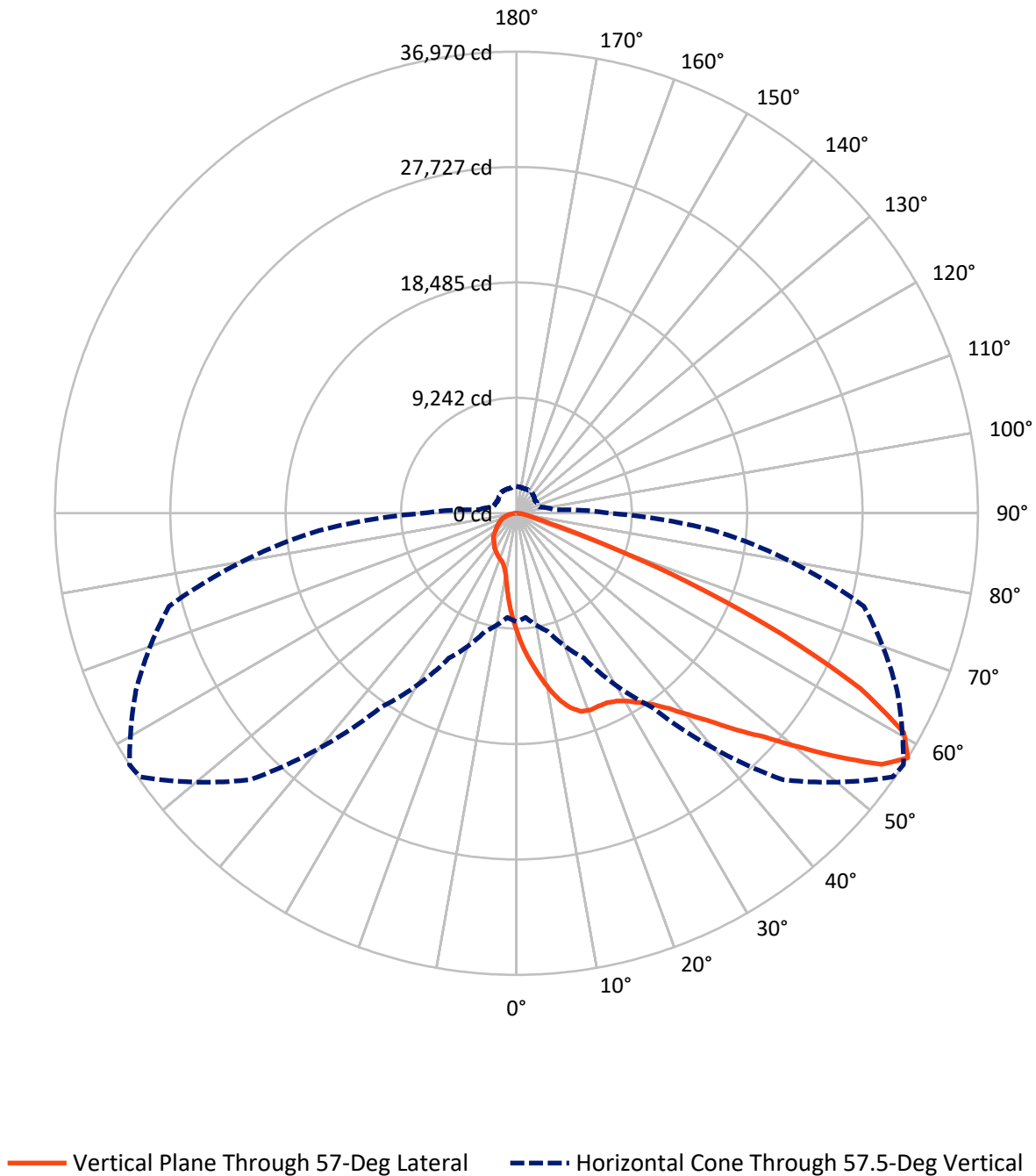


Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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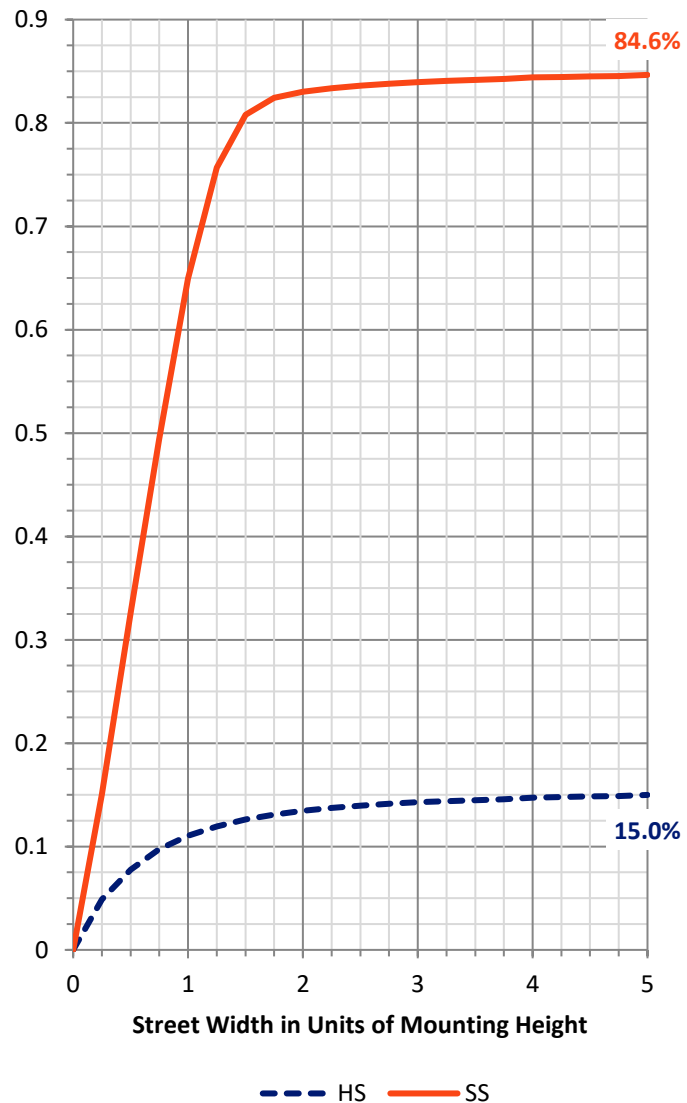
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6927.5	0.0	6927.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	38626.5	0.0	38626.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	45554.0	0.0	45554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.8	2.0
10°-20°	2710.7	6.0
20°-30°	4501.2	9.9
30°-40°	6780.1	14.9
40°-50°	10179.7	22.3
50°-60°	11410.2	25.0
60°-70°	6677.8	14.7
70°-80°	1975.2	4.3
80°-90°	399.2	0.9
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°	45554.0	100.0
0°-180°	45554.0	100.0

Coefficient of Utilization



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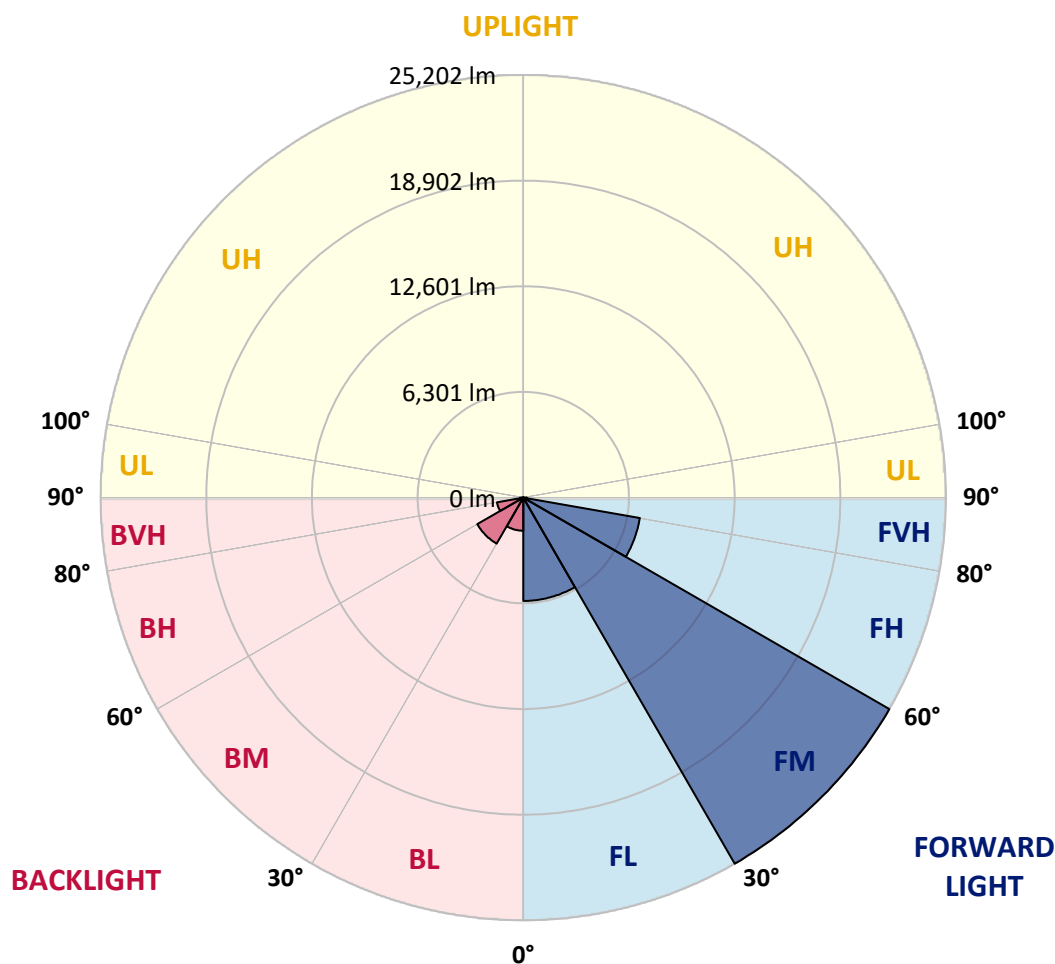
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6157.9	13.5			
FM	(30°-60°)	25202.5	55.3			
FH	(60°-80°)	7059.1	15.5			G3/7500
FVH	(80°-90°)	207.1	0.5			G2/225
BL	(0°-30°)	1973.9	4.3	B3/2500		
BM	(30°-60°)	3167.5	7.0	B3/5000		
BH	(60°-80°)	1594.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	192.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4
2.5°	11891.9	11762.2	11660.0	11570.2	11453.0	11136.3	10819.7	10814.7	10562.8	10173.8	9774.8
5°	13829.4	13654.9	13677.3	13398.0	13118.7	12659.9	11989.2	11954.2	11418.1	10690.0	9949.4
7.5°	15091.2	15093.7	15023.8	14864.3	14562.5	14041.4	13280.8	13108.8	12363.2	11258.5	10148.9
10°	15026.3	15093.7	15210.9	15348.0	15440.3	15183.4	14490.2	14280.8	13310.7	11946.8	10370.8
12.5°	14163.6	14268.3	14435.4	14779.5	15335.5	15759.4	15522.6	15353.0	14407.9	12632.5	10615.2
15°	13624.9	13687.3	13779.5	14011.4	14609.9	15624.8	16238.2	16148.4	15442.8	13408.0	10889.5
17.5°	13460.4	13522.7	13552.6	13694.8	14121.2	15161.0	16520.0	16679.6	16360.4	14121.2	11166.3
20°	13624.9	13654.9	13654.9	13739.6	14073.8	14889.2	16507.5	16829.2	17113.5	14976.5	11425.6
22.5°	14056.3	14068.8	14051.3	14081.3	14330.6	14964.0	16390.3	16789.3	17721.9	15702.1	11627.6
25°	14757.0	14777.0	14662.3	14592.5	14774.5	15293.1	16455.2	16821.7	18198.2	16395.3	11762.2
27.5°	15552.5	15577.4	15437.8	15275.7	15360.5	15699.6	16709.5	17038.7	18554.8	17078.6	11847.0
30°	16527.5	16537.4	16303.0	16108.6	16053.7	16305.5	17143.4	17450.1	18998.6	17884.0	11974.2
32.5°	17524.9	17599.7	17298.0	17023.7	16931.4	17008.7	17784.2	18081.0	19527.3	18749.3	12178.7
35°	18881.4	18893.9	18532.3	18198.2	17894.0	17993.7	18604.6	18819.1	20257.9	19749.2	12467.9
37.5°	20574.6	20689.3	20190.5	19567.2	19193.1	19048.5	19597.1	19831.5	21282.7	20976.0	12904.3
40°	22454.7	22497.1	22070.7	21681.7	20998.5	20579.5	20958.6	21212.9	22547.0	22439.8	13410.5
42.5°	23636.7	23728.9	23761.4	23721.5	23207.8	22504.6	22649.2	22768.9	24043.1	23813.7	13929.2
45°	24035.7	24172.8	24636.6	25619.1	25673.9	24980.7	24644.1	24758.8	25673.9	25200.2	14425.4
47.5°	23374.9	23609.2	24464.5	26479.4	27988.0	28040.3	27025.5	26773.6	27160.1	26349.7	14784.5
50°	21666.7	21716.6	23025.8	25943.2	29072.7	30965.3	29915.5	29446.7	28571.5	27200.0	15031.3
52.5°	19023.5	19080.9	20178.1	23452.2	28404.4	33010.1	33296.8	32459.0	30005.3	27860.8	15193.4
55°	14121.2	14452.8	15659.7	18824.1	25237.6	32818.1	35984.9	35508.6	31738.3	28384.5	15447.8
57.5°	8682.7	8378.4	9809.8	12807.0	18981.2	30179.8	36815.3	36969.9	33645.9	28823.3	15874.2
60°	3994.7	4054.6	4645.5	6605.5	11570.2	23609.2	34675.8	35653.3	34700.7	28808.4	15981.4
62.5°	2752.9	2698.1	2548.4	2900.0	5276.4	14931.6	29289.6	30945.4	32586.2	27913.2	15555.0
65°	2461.2	2406.3	2117.1	2019.8	2423.8	6508.3	21292.7	23382.3	27436.9	25654.0	14492.7
67.5°	2299.1	2224.3	1925.0	1735.5	1730.5	2590.8	12555.2	15071.2	20350.1	21689.2	12557.7
70°	2129.5	2069.7	1772.9	1563.5	1473.7	1628.3	5518.3	7223.9	13213.5	15629.8	9782.3
72.5°	1960.0	1890.1	1623.3	1398.9	1281.7	1219.4	2114.6	2750.4	7465.8	9370.9	5997.1
75°	1713.1	1678.2	1451.3	1266.7	1139.6	985.0	1341.5	1531.1	3570.8	4303.9	3009.8
77.5°	1498.6	1461.2	1289.2	1107.2	1014.9	800.4	952.5	1039.8	1506.1	1745.5	1359.0
80°	1097.2	1134.6	1087.2	977.5	905.2	628.4	640.9	713.2	895.2	990.0	830.4
82.5°	695.7	765.5	837.8	753.1	685.7	496.2	443.9	471.3	610.9	648.3	369.1
85°	291.7	296.7	486.2	458.8	391.5	294.2	266.8	281.8	326.7	341.6	172.1
87.5°	112.2	109.7	172.1	159.6	122.2	84.8	84.8	94.8	129.7	119.7	54.9
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°	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4	9570.4
2.5°	9602.8	9425.7	9074.2	8637.8	8318.6	7959.5	7642.8	7415.9	7331.1	7291.2	7216.4
5°	9595.3	9246.2	8518.1	7755.0	7141.6	6513.2	5982.1	5638.0	5608.1	5378.7	5356.2
7.5°	9597.8	9064.2	7904.7	6782.5	5847.5	5204.1	4765.2	4650.5	4513.4	4478.5	4495.9
10°	9605.3	8832.3	7246.4	5820.0	4914.9	4493.4	4328.9	4284.0	4289.0	4303.9	4306.4
12.5°	9615.3	8607.9	6563.1	5089.4	4391.2	4216.6	4199.2	4239.1	4281.5	4313.9	4321.4
15°	9627.7	8351.0	5897.3	4500.9	4129.4	4114.4	4171.8	4239.1	4298.9	4346.3	4353.8
17.5°	9612.8	8051.8	5338.8	4139.3	3984.7	4057.1	4151.8	4236.6	4291.5	4336.3	4341.3
20°	9577.9	7717.6	4800.1	3885.0	3895.0	4012.2	4114.4	4194.2	4254.1	4276.5	4294.0
22.5°	9443.2	7318.7	4331.4	3688.0	3787.8	3949.8	4072.0	4119.4	4052.1	4004.7	4017.2
25°	9213.8	6800.0	3895.0	3528.4	3690.5	3862.6	3987.2	3872.5	3817.7	3797.7	3807.7
27.5°	8927.0	6231.5	3565.8	3361.4	3565.8	3765.3	3730.4	3710.5	3685.5	3653.1	3660.6
30°	8617.8	5675.4	3286.5	3231.7	3431.2	3545.9	3560.8	3593.3	3565.8	3516.0	3535.9
32.5°	8331.1	5151.7	3074.6	3122.0	3336.4	3319.0	3431.2	3468.6	3341.4	3174.3	3181.8
35°	8086.7	4665.5	2915.0	3014.7	3174.3	3181.8	3294.0	3164.4	3027.2	2947.4	2952.4
37.5°	7902.2	4286.5	2810.3	2922.5	2967.4	3062.1	3002.3	2934.9	2917.5	2862.6	2865.1
40°	7792.4	3954.8	2742.9	2850.2	2842.7	2907.5	2715.5	2782.8	2807.8	2790.3	2792.8
42.5°	7682.7	3720.4	2673.1	2750.4	2747.9	2620.8	2578.4	2635.7	2700.6	2708.0	2703.0
45°	7595.5	3538.4	2600.8	2598.3	2648.2	2448.7	2436.2	2471.1	2563.4	2608.3	2605.8
47.5°	7498.2	3386.3	2491.1	2421.3	2436.2	2341.5	2321.5	2336.5	2448.7	2521.0	2541.0
50°	7376.0	3234.2	2353.9	2259.2	2196.8	2241.7	2246.7	2249.2	2361.4	2443.7	2461.2
52.5°	7278.8	3119.5	2196.8	2127.0	2052.2	2152.0	2189.4	2194.4	2261.7	2329.0	2341.5
55°	7336.1	3054.6	2042.2	1992.4	1925.0	2059.7	2132.0	2142.0	2156.9	2206.8	2214.3
57.5°	7508.2	3069.6	1917.6	1852.7	1802.9	1950.0	2072.2	2079.6	2069.7	2129.5	2139.5
60°	7560.5	3062.1	1825.3	1698.1	1668.2	1832.8	1984.9	1999.9	1997.4	2084.6	2102.1
62.5°	7341.1	2967.4	1733.0	1568.5	1548.5	1713.1	1862.7	1922.6	1935.0	2059.7	2082.1
65°	6824.9	2772.9	1610.9	1431.3	1431.3	1585.9	1745.5	1827.8	1862.7	2029.8	2054.7
67.5°	6144.2	2543.5	1486.2	1314.1	1309.1	1463.7	1620.8	1705.6	1760.5	1987.4	2002.3
70°	5099.4	2234.3	1331.6	1186.9	1186.9	1326.6	1468.7	1571.0	1650.8	1907.6	1907.6
72.5°	3493.5	1857.7	1144.6	1042.3	1044.8	1174.5	1319.1	1433.8	1528.6	1748.0	1753.0
75°	2209.3	1451.3	940.1	887.7	897.7	1019.9	1169.5	1289.2	1478.7	1728.1	1735.5
77.5°	1174.5	1019.9	748.1	735.6	748.1	860.3	1027.4	1191.9	1483.7	1498.6	1473.7
80°	760.5	723.1	591.0	566.0	571.0	693.2	915.1	1132.1	1191.9	1206.9	1152.0
82.5°	413.9	458.8	418.9	394.0	394.0	541.1	780.5	900.2	855.3	710.7	678.3
85°	177.0	214.4	216.9	189.5	182.0	334.1	523.7	491.2	456.3	436.4	431.4
87.5°	49.9	69.8	69.8	52.4	39.9	92.3	104.7	29.9	0.0	2.5	5.0
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)