

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: P458488

Luminaire Tested: **GALN-SA9D-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458488
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-SA9D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56274 lumens
Efficiency: N/A
Efficacy: 101.9 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): 552
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

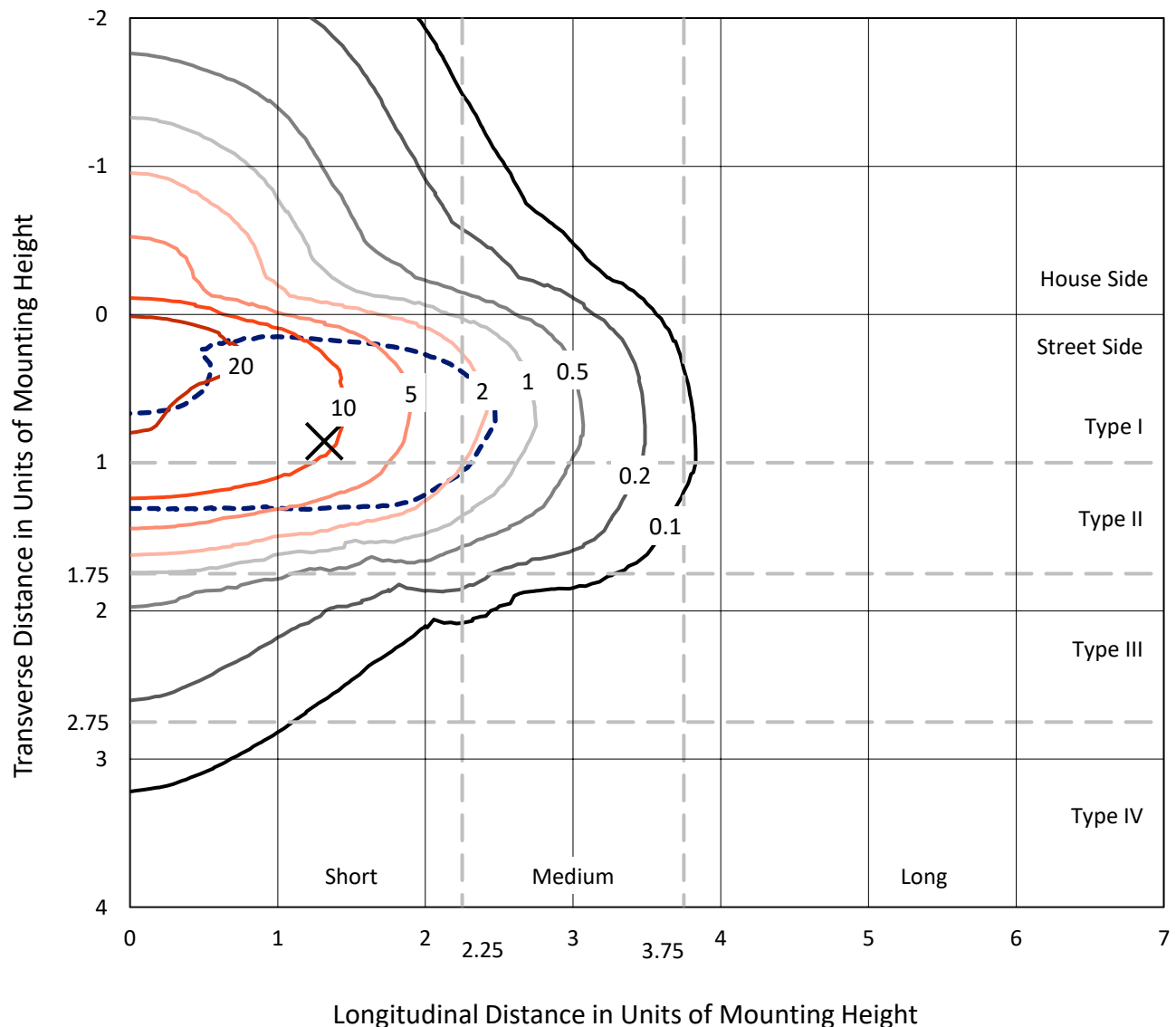


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

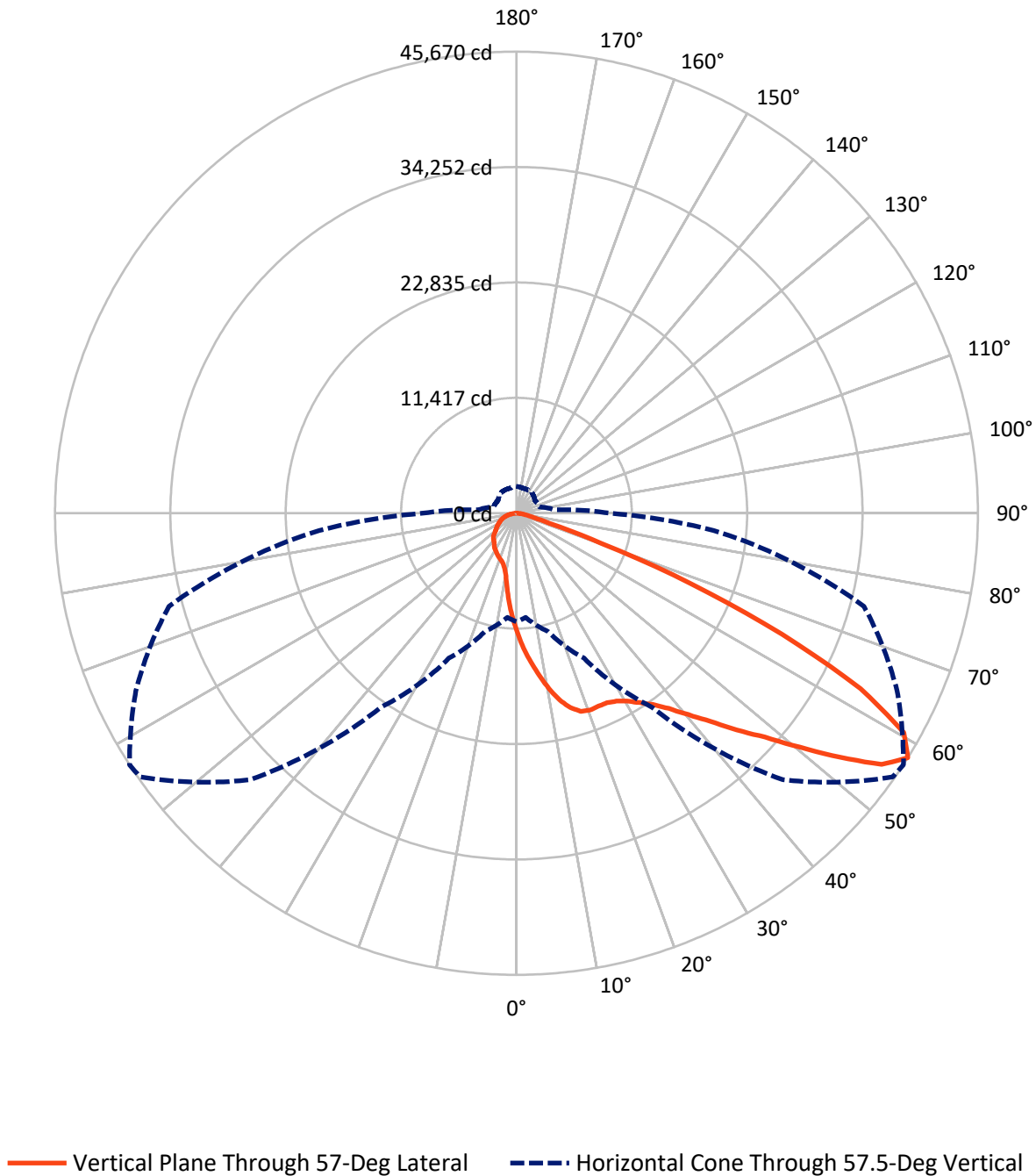


Based on 25 foot mounting height. Maximum calculated value = 28.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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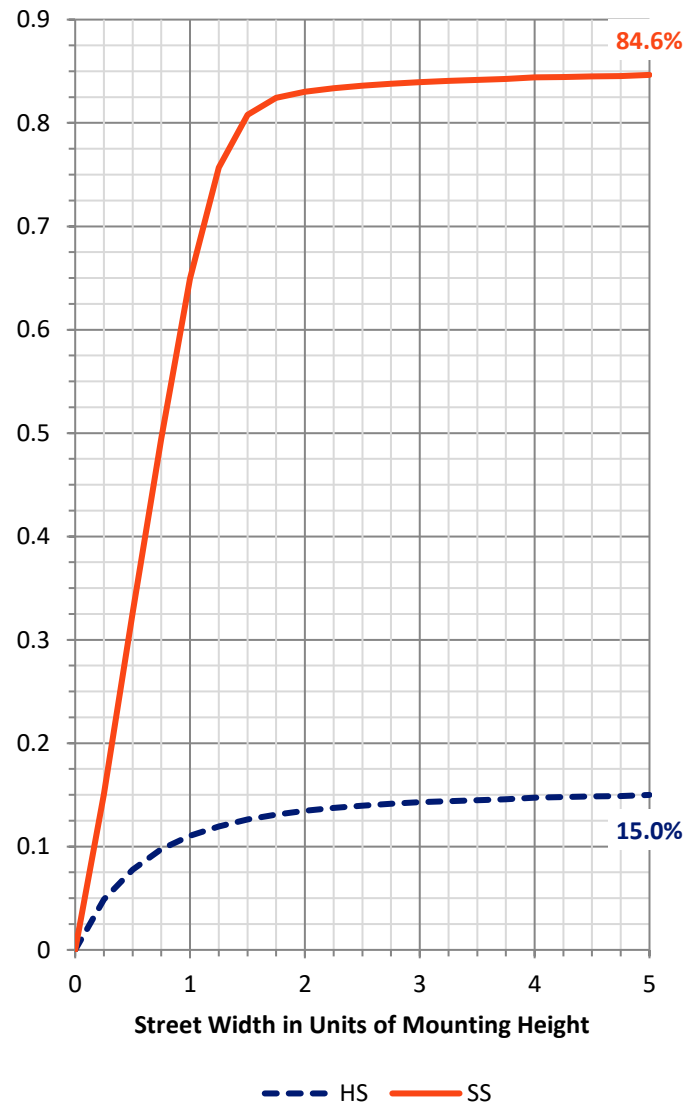
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8557.7	0.0	8557.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	47716.3	0.0	47716.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	56274.0	0.0	56274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.3	2.0
10°-20°	3348.6	6.0
20°-30°	5560.4	9.9
30°-40°	8375.6	14.9
40°-50°	12575.2	22.3
50°-60°	14095.3	25.0
60°-70°	8249.2	14.7
70°-80°	2440.1	4.3
80°-90°	493.2	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°	56274.0	100.0
0°-180°	56274.0	100.0

Coefficient of Utilization



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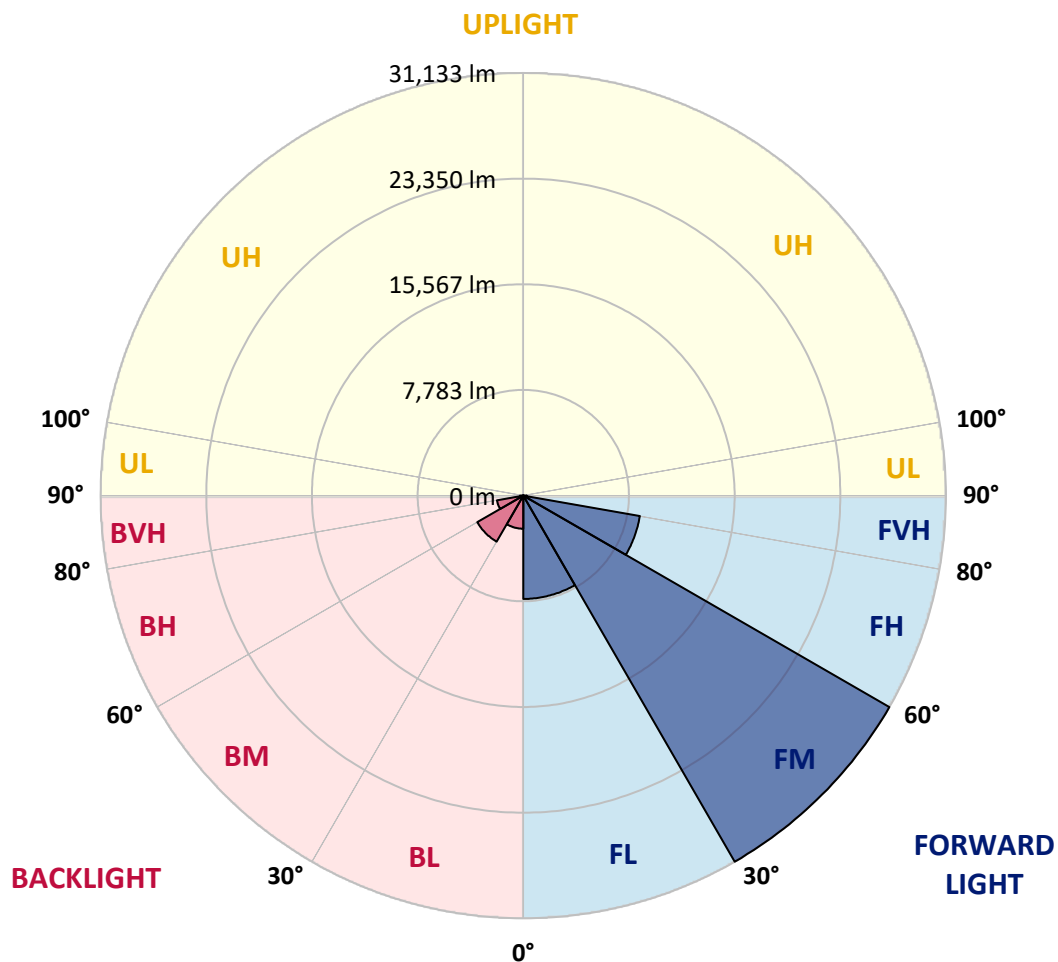
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7606.9	13.5			
FM	(30°-60°)	31133.2	55.3			
FH	(60°-80°)	8720.2	15.5			G4/12000
FVH	(80°-90°)	255.9	0.5			G3/500
BL	(0°-30°)	2438.4	4.3	B3/2500		
BM	(30°-60°)	3912.9	7.0	B3/5000		
BH	(60°-80°)	1969.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	237.3	0.4			G3/500
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°	57°	65°	75°	85°
0°	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5
2.5°	14690.4	14530.2	14403.9	14293.0	14148.2	13757.0	13365.8	13359.6	13048.5	12568.0	12075.1
5°	17083.8	16868.2	16895.9	16550.9	16205.9	15639.1	14810.5	14767.4	14105.1	13205.6	12290.7
7.5°	18642.5	18645.6	18559.3	18362.2	17989.5	17345.7	16406.1	16193.6	15272.6	13907.9	12537.2
10°	18562.4	18645.6	18790.4	18959.8	19073.8	18756.5	17900.1	17641.4	16443.1	14758.1	12811.3
12.5°	17496.6	17626.0	17832.4	18257.5	18944.4	19468.0	19175.4	18965.9	17798.5	15605.2	13113.2
15°	16831.2	16908.2	17022.2	17308.7	18048.0	19301.7	20059.5	19948.6	19076.8	16563.2	13452.0
17.5°	16627.9	16704.9	16741.9	16917.5	17444.2	18728.7	20407.6	20604.7	20210.4	17444.2	13794.0
20°	16831.2	16868.2	16868.2	16972.9	17385.7	18393.0	20392.2	20789.5	21140.7	18500.8	14114.3
22.5°	17364.1	17379.5	17358.0	17394.9	17703.0	18485.4	20247.4	20740.2	21892.3	19397.2	14363.8
25°	18229.7	18254.4	18112.7	18026.4	18251.3	18892.0	20327.5	20780.3	22480.7	20253.5	14530.2
27.5°	19212.4	19243.2	19070.7	18870.4	18975.2	19394.1	20641.7	21048.3	22921.2	21097.6	14634.9
30°	20416.8	20429.1	20139.6	19899.3	19831.5	20142.6	21177.7	21556.5	23469.5	22092.5	14792.0
32.5°	21649.0	21741.4	21368.6	21029.8	20915.8	21011.3	21969.3	22335.9	24122.5	23161.4	15044.6
35°	23324.7	23340.1	22893.4	22480.7	22104.9	22228.1	22982.8	23247.7	25025.1	24396.7	15401.9
37.5°	25416.3	25558.0	24941.9	24171.8	23709.7	23531.1	24208.8	24498.3	26291.1	25912.2	15941.0
40°	27738.9	27791.2	27264.5	26784.0	25939.9	25422.4	25890.6	26204.8	27852.9	27720.4	16566.3
42.5°	29199.0	29313.0	29353.0	29303.7	28669.2	27800.5	27979.2	28127.0	29701.1	29417.7	17207.0
45°	29691.8	29861.3	30434.2	31647.9	31715.7	30859.3	30443.5	30585.2	31715.7	31130.4	17820.0
47.5°	28875.5	29165.1	30221.7	32710.6	34574.3	34638.9	33385.2	33074.1	33551.6	32550.4	18263.6
50°	26765.5	26827.1	28444.3	32048.3	35914.2	38252.2	36955.4	36376.3	35295.1	33600.9	18568.6
52.5°	23500.3	23571.1	24926.5	28971.0	35088.7	40778.2	41132.4	40097.4	37066.3	34417.2	18768.8
55°	17444.2	17853.9	19344.8	23253.8	31176.6	40541.0	44453.1	43864.7	39207.2	35064.0	19083.0
57.5°	10725.9	10350.1	12118.2	15820.9	23447.9	37281.9	45478.8	45669.8	41563.7	35606.2	19609.7
60°	4934.8	5008.7	5738.8	8159.9	14293.0	29165.1	42835.9	44043.4	42866.7	35587.7	19742.2
62.5°	3400.7	3333.0	3148.2	3582.5	6518.1	18445.4	36182.2	38227.6	40254.5	34481.8	19215.5
65°	3040.3	2972.6	2615.2	2495.1	2994.1	8039.8	26303.4	28884.8	33893.5	31691.0	17903.2
67.5°	2840.1	2747.7	2378.1	2143.9	2137.8	3200.5	15509.7	18617.9	25139.0	26793.2	15512.8
70°	2630.7	2556.7	2190.2	1931.4	1820.5	2011.5	6816.9	8923.9	16323.0	19307.9	12084.4
72.5°	2421.2	2334.9	2005.3	1728.1	1583.3	1506.3	2612.2	3397.7	9222.7	11576.1	7408.3
75°	2116.2	2073.1	1792.8	1564.8	1407.7	1216.8	1657.2	1891.4	4411.1	5316.7	3718.0
77.5°	1851.3	1805.1	1592.6	1367.7	1253.7	988.8	1176.7	1284.5	1860.6	2156.3	1678.8
80°	1355.4	1401.6	1343.0	1207.5	1118.2	776.3	791.7	881.0	1105.9	1222.9	1025.8
82.5°	859.4	945.7	1035.0	930.3	847.1	613.0	548.3	582.2	754.7	800.9	455.9
85°	360.4	366.6	600.7	566.8	483.6	363.5	329.6	348.1	403.5	422.0	212.5
87.5°	138.6	135.5	212.5	197.1	150.9	104.7	104.7	117.1	160.2	147.9	67.8
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°	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5	11822.5
2.5°	11862.6	11643.9	11209.5	10670.5	10276.2	9832.6	9441.4	9161.1	9056.3	9007.1	8914.6
5°	11853.3	11422.1	10522.6	9580.0	8822.2	8046.0	7389.8	6964.8	6927.8	6644.4	6616.7
7.5°	11856.4	11197.2	9764.8	8378.7	7223.5	6428.8	5886.6	5744.9	5575.5	5532.4	5553.9
10°	11865.6	10910.7	8951.6	7189.6	6071.4	5550.9	5347.6	5292.1	5298.3	5316.7	5319.8
12.5°	11878.0	10633.5	8107.6	6287.1	5424.6	5208.9	5187.4	5236.7	5289.0	5329.1	5338.3
15°	11893.4	10316.2	7285.1	5560.1	5101.1	5082.6	5153.5	5236.7	5310.6	5369.1	5378.4
17.5°	11874.9	9946.6	6595.1	5113.4	4922.5	5011.8	5128.8	5233.6	5301.3	5356.8	5363.0
20°	11831.8	9533.8	5929.7	4799.2	4811.6	4956.3	5082.6	5181.2	5255.1	5282.9	5304.4
22.5°	11665.4	9040.9	5350.6	4555.9	4679.1	4879.3	5030.3	5088.8	5005.6	4947.1	4962.5
25°	11382.0	8400.2	4811.6	4358.7	4559.0	4771.5	4925.5	4783.8	4716.1	4691.4	4703.8
27.5°	11027.8	7697.9	4405.0	4152.4	4405.0	4651.4	4608.3	4583.6	4552.8	4512.8	4522.0
30°	10645.8	7011.0	4059.9	3992.2	4238.6	4380.3	4398.8	4438.8	4405.0	4343.3	4368.0
32.5°	10291.6	6364.1	3798.1	3856.6	4121.6	4100.0	4238.6	4284.8	4127.7	3921.3	3930.6
35°	9989.7	5763.4	3601.0	3724.2	3921.3	3930.6	4069.2	3909.0	3739.6	3641.0	3647.2
37.5°	9761.7	5295.2	3471.6	3610.2	3665.7	3782.7	3708.8	3625.6	3604.1	3536.3	3539.4
40°	9626.2	4885.5	3388.4	3520.9	3511.6	3591.7	3354.5	3437.7	3468.5	3447.0	3450.0
42.5°	9490.7	4595.9	3302.2	3397.7	3394.6	3237.5	3185.1	3256.0	3336.1	3345.3	3339.1
45°	9382.9	4371.1	3212.8	3209.8	3271.4	3024.9	3009.5	3052.7	3166.6	3222.1	3219.0
47.5°	9262.7	4183.2	3077.3	2991.1	3009.5	2892.5	2867.8	2886.3	3024.9	3114.3	3138.9
50°	9111.8	3995.3	2907.9	2790.8	2713.8	2769.3	2775.4	2778.5	2917.1	3018.8	3040.3
52.5°	8991.6	3853.6	2713.8	2627.6	2535.2	2658.4	2704.6	2710.7	2793.9	2877.1	2892.5
55°	9062.5	3773.5	2522.8	2461.2	2378.1	2544.4	2633.7	2646.1	2664.5	2726.1	2735.4
57.5°	9275.0	3792.0	2368.8	2288.7	2227.1	2408.9	2559.8	2569.0	2556.7	2630.7	2643.0
60°	9339.7	3782.7	2254.8	2097.7	2060.8	2264.1	2452.0	2470.5	2467.4	2575.2	2596.8
62.5°	9068.7	3665.7	2140.9	1937.6	1912.9	2116.2	2301.0	2375.0	2390.4	2544.4	2572.1
65°	8431.0	3425.4	1989.9	1768.1	1768.1	1959.1	2156.3	2257.9	2301.0	2507.4	2538.2
67.5°	7590.1	3142.0	1835.9	1623.4	1617.2	1808.2	2002.3	2107.0	2174.8	2455.1	2473.6
70°	6299.4	2760.0	1644.9	1466.3	1466.3	1638.8	1814.3	1940.6	2039.2	2356.5	2356.5
72.5°	4315.6	2294.9	1413.9	1287.6	1290.7	1450.9	1629.5	1771.2	1888.3	2159.4	2165.5
75°	2729.2	1792.8	1161.3	1096.6	1108.9	1259.9	1444.7	1592.6	1826.7	2134.7	2143.9
77.5°	1450.9	1259.9	924.1	908.7	924.1	1062.7	1269.1	1472.4	1832.8	1851.3	1820.5
80°	939.5	893.3	730.1	699.2	705.4	856.3	1130.5	1398.5	1472.4	1490.9	1423.1
82.5°	511.3	566.8	517.5	486.7	486.7	668.4	964.2	1112.0	1056.6	877.9	837.9
85°	218.7	264.9	268.0	234.1	224.9	412.8	646.9	606.8	563.7	539.1	532.9
87.5°	61.6	86.3	86.3	64.7	49.3	114.0	129.4	37.0	0.0	3.1	6.2
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)