

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: P456632

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456632
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-SA7D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 43236 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



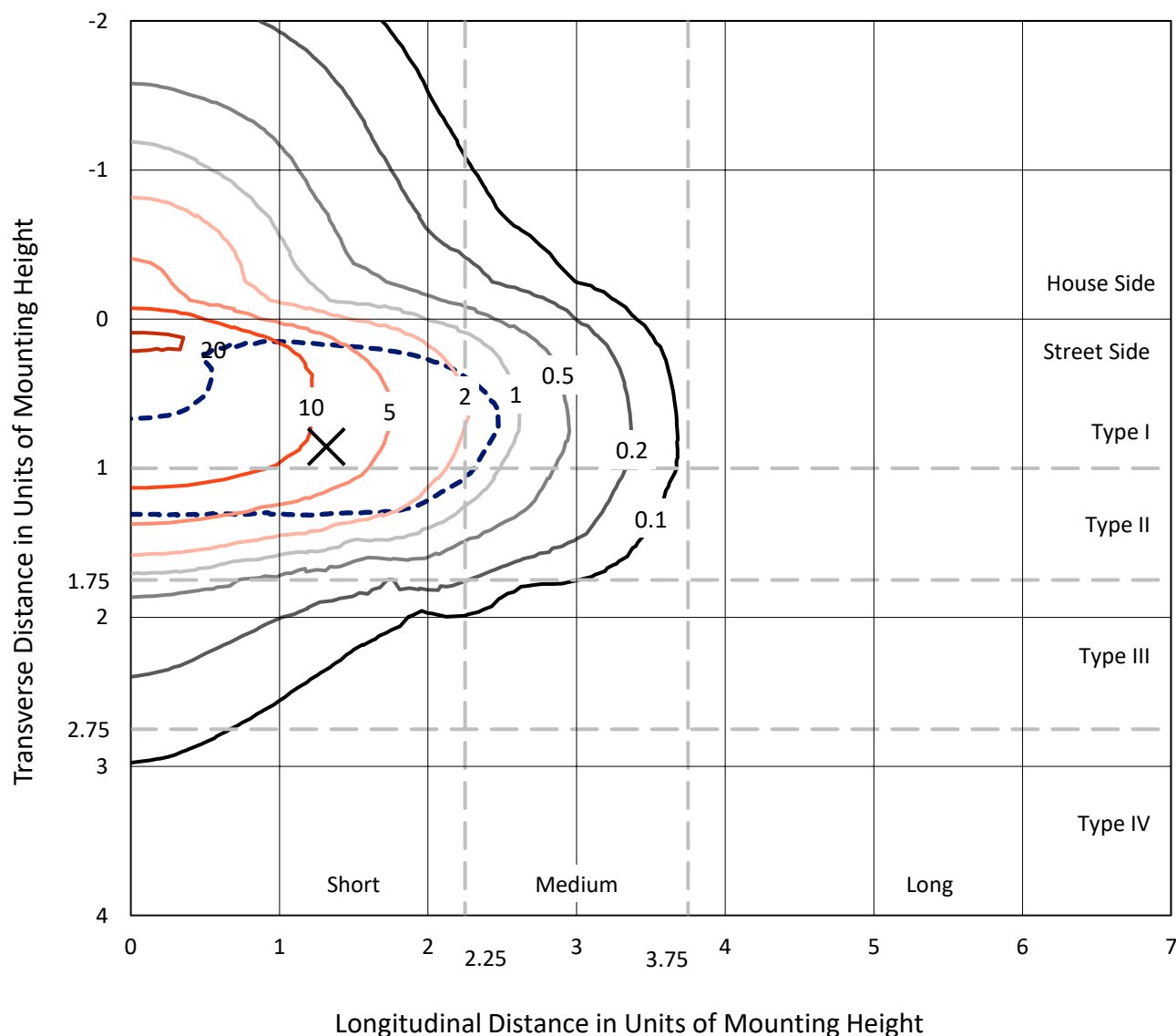
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

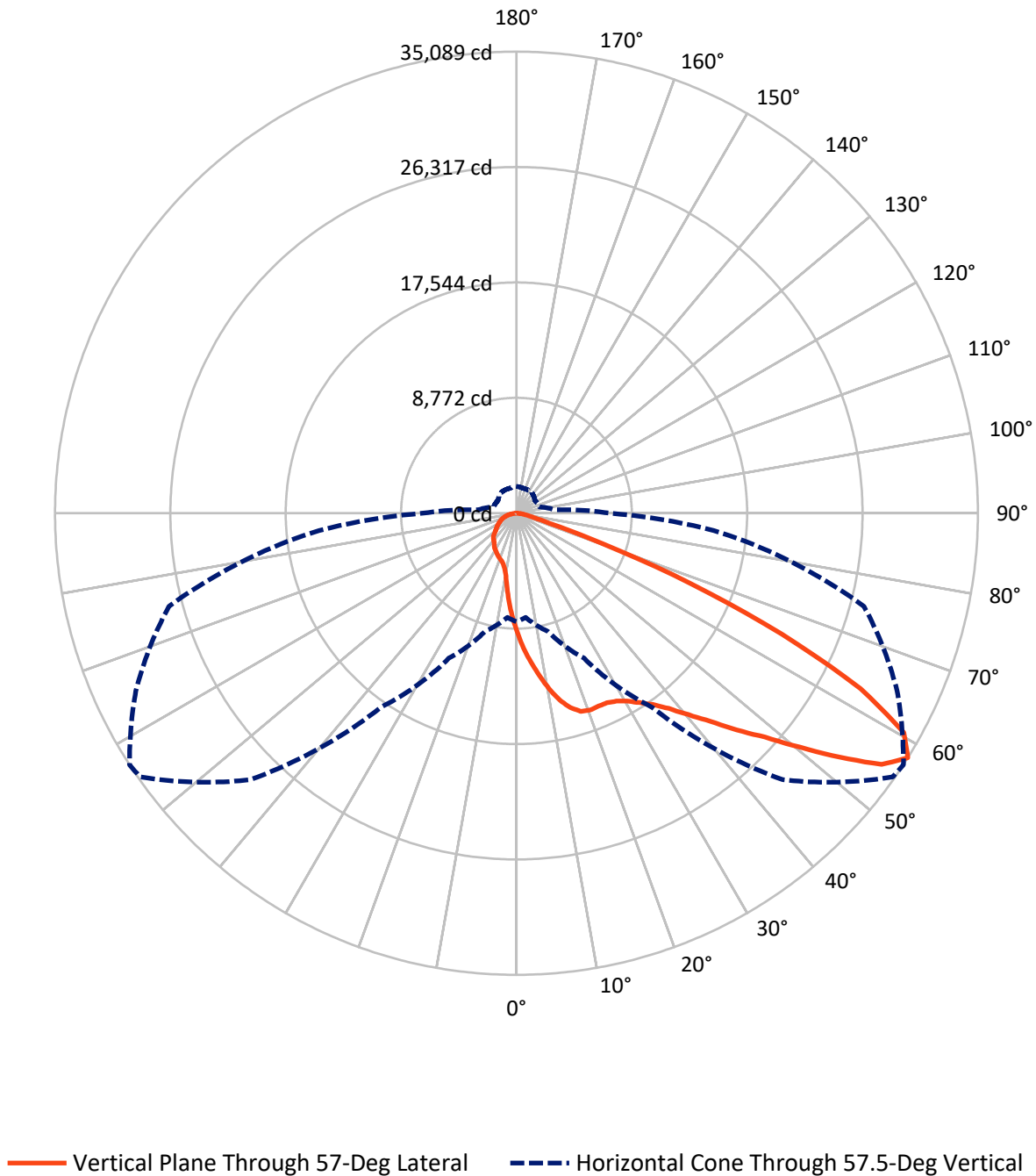


Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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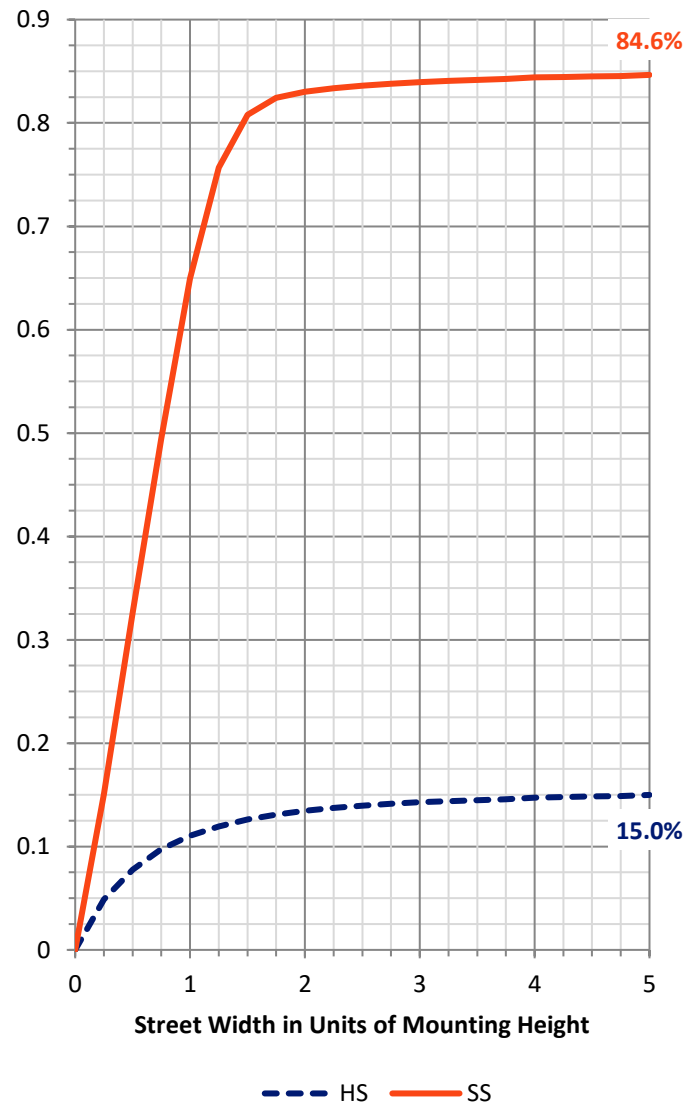
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6575.0	0.0	6575.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	36661.0	0.0	36661.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	43236.0	0.0	43236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.0	2.0
10°-20°	2572.8	6.0
20°-30°	4272.2	9.9
30°-40°	6435.1	14.9
40°-50°	9661.7	22.3
50°-60°	10829.6	25.0
60°-70°	6338.0	14.7
70°-80°	1874.7	4.3
80°-90°	378.9	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°	43236.0	100.0
0°-180°	43236.0	100.0

Coefficient of Utilization



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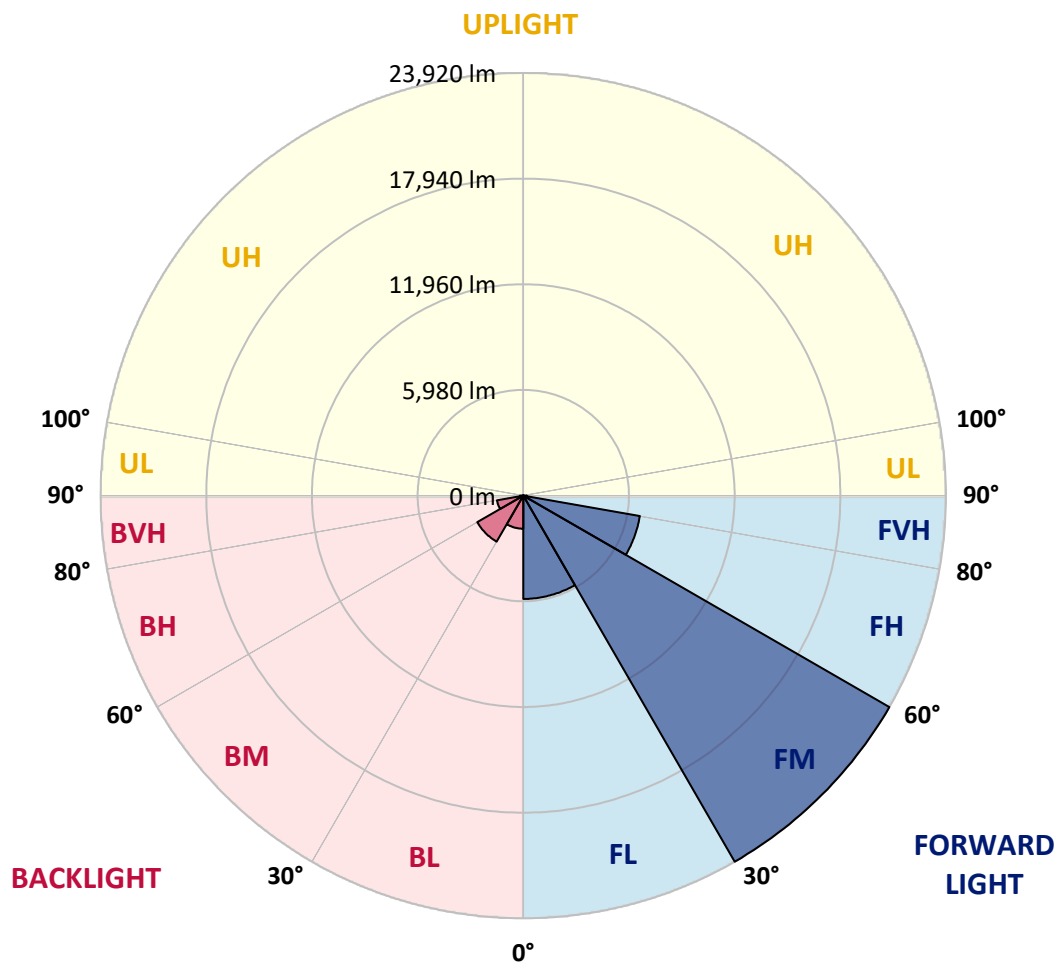
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5844.5	13.5			
FM	(30°-60°)	23920.1	55.3			
FH	(60°-80°)	6699.9	15.5			G3/7500
FVH	(80°-90°)	196.6	0.5			G2/225
BL	(0°-30°)	1873.4	4.3	B3/2500		
BM	(30°-60°)	3006.3	7.0	B3/5000		
BH	(60°-80°)	1512.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	182.3	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°	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4
2.5°	11286.8	11163.7	11066.7	10981.5	10870.2	10569.7	10269.1	10264.4	10025.3	9656.1	9277.5
5°	13125.7	12960.0	12981.3	12716.3	12451.2	12015.7	11379.1	11346.0	10837.1	10146.0	9443.1
7.5°	14323.3	14325.6	14259.4	14107.9	13821.5	13326.9	12605.0	12441.7	11734.1	10685.6	9632.5
10°	14261.7	14325.6	14436.9	14567.0	14654.6	14410.8	13752.9	13554.1	12633.4	11338.9	9843.1
12.5°	13442.8	13542.2	13700.8	14027.4	14555.2	14957.5	14732.7	14571.8	13674.8	11989.7	10075.0
15°	12931.6	12990.8	13078.4	13298.5	13866.5	14829.7	15411.9	15326.7	14657.0	12725.7	10335.4
17.5°	12775.4	12834.6	12863.0	12997.9	13402.6	14389.5	15679.4	15830.8	15527.9	13402.6	10598.1
20°	12931.6	12960.0	12960.0	13040.5	13357.6	14131.6	15667.5	15972.8	16242.7	14214.4	10844.2
22.5°	13341.1	13352.9	13336.3	13364.7	13601.4	14202.6	15556.3	15935.0	16820.1	14903.1	11035.9
25°	14006.1	14025.1	13916.2	13849.9	14022.7	14515.0	15617.8	15965.7	17272.2	15561.0	11163.7
27.5°	14761.1	14784.8	14652.2	14498.4	14578.9	14900.7	15859.2	16171.7	17610.6	16209.5	11244.2
30°	15686.5	15695.9	15473.5	15288.9	15236.8	15475.8	16271.1	16562.2	18031.9	16974.0	11364.9
32.5°	16633.2	16704.2	16417.8	16157.5	16069.9	16143.3	16879.3	17160.9	18533.6	17795.2	11559.0
35°	17920.6	17932.5	17589.3	17272.2	16983.4	17078.1	17657.9	17861.5	19227.1	18744.3	11833.5
37.5°	19527.6	19636.5	19163.2	18571.5	18216.5	18079.2	18599.9	18822.4	20199.8	19908.7	12247.7
40°	21312.1	21352.4	20947.6	20578.4	19930.0	19532.4	19892.1	20133.5	21399.7	21297.9	12728.1
42.5°	22433.9	22521.5	22552.3	22514.4	22026.9	21359.5	21496.7	21610.3	22819.7	22602.0	13220.4
45°	22812.6	22942.8	23383.0	24315.5	24367.5	23709.6	23390.1	23498.9	24367.5	23917.9	13691.4
47.5°	22185.4	22407.9	23219.7	25132.0	26563.8	26613.5	25650.3	25411.2	25778.1	25008.9	14032.2
50°	20564.2	20611.6	21854.1	24623.1	27593.3	29389.7	28393.3	27948.3	27117.6	25815.9	14266.5
52.5°	18055.5	18110.0	19151.3	22258.8	26959.1	31330.4	31602.5	30807.3	28478.5	26443.1	14420.3
55°	13402.6	13717.4	14862.9	17866.2	23953.4	31148.1	34153.8	33701.8	30123.3	26940.1	14661.7
57.5°	8240.8	7952.1	9310.6	12155.4	18015.3	28644.2	34941.9	35088.7	31933.9	27356.7	15066.4
60°	3791.5	3848.3	4409.2	6269.4	10981.5	22407.9	32911.3	33839.1	32935.0	27342.5	15168.2
62.5°	2612.8	2560.8	2418.8	2752.5	5007.9	14171.8	27799.2	29370.7	30928.0	26492.8	14763.5
65°	2335.9	2283.9	2009.3	1917.0	2300.4	6177.1	20209.2	22192.5	26040.8	24348.6	13755.3
67.5°	2182.1	2111.1	1827.1	1647.2	1642.5	2459.0	11916.3	14304.3	19314.6	20585.5	11918.7
70°	2021.2	1964.4	1682.7	1483.9	1398.7	1545.5	5237.5	6856.3	12541.1	14834.5	9284.6
72.5°	1860.2	1794.0	1540.7	1327.7	1216.5	1157.3	2007.0	2610.5	7085.9	8894.1	5691.9
75°	1625.9	1592.8	1377.4	1202.3	1081.6	934.8	1273.3	1453.2	3389.1	4084.9	2856.6
77.5°	1422.4	1386.9	1223.6	1050.8	963.2	759.7	904.1	986.9	1429.5	1656.7	1289.9
80°	1041.3	1076.8	1031.9	927.7	859.1	596.4	608.2	676.9	849.6	939.6	788.1
82.5°	660.3	726.6	795.2	714.7	650.8	471.0	421.3	447.3	579.8	615.3	350.3
85°	276.9	281.6	461.5	435.5	371.6	279.3	253.2	267.4	310.0	324.2	163.3
87.5°	106.5	104.1	163.3	151.5	116.0	80.5	80.5	89.9	123.1	113.6	52.1
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°	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4	9083.4
2.5°	9114.2	8946.1	8612.4	8198.2	7895.3	7554.5	7253.9	7038.6	6958.1	6920.2	6849.2
5°	9107.1	8775.7	8084.6	7360.4	6778.2	6181.8	5677.7	5351.1	5322.7	5105.0	5083.7
7.5°	9109.4	8602.9	7502.4	6437.4	5549.9	4939.3	4522.8	4413.9	4283.7	4250.6	4267.2
10°	9116.5	8382.8	6877.6	5523.9	4664.8	4264.8	4108.6	4066.0	4070.7	4084.9	4087.3
12.5°	9126.0	8169.8	6229.2	4830.4	4167.8	4002.1	3985.5	4023.4	4063.6	4094.4	4101.5
15°	9137.8	7926.1	5597.2	4271.9	3919.3	3905.1	3959.5	4023.4	4080.2	4125.2	4132.3
17.5°	9123.6	7642.1	5067.1	3928.7	3782.0	3850.6	3940.6	4021.0	4073.1	4115.7	4120.4
20°	9090.5	7324.9	4555.9	3687.3	3696.8	3808.0	3905.1	3980.8	4037.6	4058.9	4075.5
22.5°	8962.7	6946.3	4111.0	3500.3	3595.0	3748.9	3864.8	3909.8	3845.9	3800.9	3812.8
25°	8745.0	6454.0	3696.8	3348.9	3502.7	3666.0	3784.4	3675.5	3623.4	3604.5	3613.9
27.5°	8472.8	5914.4	3384.4	3190.3	3384.4	3573.7	3540.6	3521.6	3498.0	3467.2	3474.3
30°	8179.3	5386.6	3119.3	3067.2	3256.6	3365.4	3379.6	3410.4	3384.4	3337.0	3356.0
32.5°	7907.1	4889.6	2918.1	2963.1	3166.6	3150.1	3256.6	3292.1	3171.4	3012.8	3019.9
35°	7675.2	4428.1	2766.7	2861.3	3012.8	3019.9	3126.4	3003.3	2873.2	2797.4	2802.2
37.5°	7500.1	4068.4	2667.3	2773.8	2816.4	2906.3	2849.5	2785.6	2769.0	2717.0	2719.3
40°	7395.9	3753.6	2603.4	2705.1	2698.0	2759.6	2577.3	2641.2	2664.9	2648.3	2650.7
42.5°	7291.8	3531.1	2537.1	2610.5	2608.1	2487.4	2447.2	2501.6	2563.1	2570.2	2565.5
45°	7209.0	3358.3	2468.5	2466.1	2513.4	2324.1	2312.3	2345.4	2433.0	2475.6	2473.2
47.5°	7116.7	3214.0	2364.3	2298.1	2312.3	2222.3	2203.4	2217.6	2324.1	2392.7	2411.7
50°	7000.7	3069.6	2234.2	2144.2	2085.1	2127.7	2132.4	2134.8	2241.3	2319.4	2335.9
52.5°	6908.4	2960.7	2085.1	2018.8	1947.8	2042.5	2078.0	2082.7	2146.6	2210.5	2222.3
55°	6962.8	2899.2	1938.3	1891.0	1827.1	1954.9	2023.5	2033.0	2047.2	2094.5	2101.6
57.5°	7126.1	2913.4	1820.0	1758.5	1711.1	1850.8	1966.7	1973.8	1964.4	2021.2	2030.6
60°	7175.8	2906.3	1732.4	1611.7	1583.3	1739.5	1883.9	1898.1	1895.7	1978.6	1995.1
62.5°	6967.6	2816.4	1644.9	1488.7	1469.7	1625.9	1767.9	1824.7	1836.6	1954.9	1976.2
65°	6477.7	2631.8	1528.9	1358.5	1358.5	1505.2	1656.7	1734.8	1767.9	1926.5	1950.2
67.5°	5831.5	2414.0	1410.6	1247.3	1242.5	1389.3	1538.4	1618.8	1670.9	1886.3	1900.5
70°	4839.9	2120.6	1263.8	1126.5	1126.5	1259.1	1394.0	1491.0	1566.8	1810.5	1810.5
72.5°	3315.7	1763.2	1086.3	989.3	991.6	1114.7	1252.0	1360.9	1450.8	1659.1	1663.8
75°	2096.9	1377.4	892.2	842.5	852.0	968.0	1110.0	1223.6	1403.5	1640.1	1647.2
77.5°	1114.7	968.0	710.0	698.2	710.0	816.5	975.1	1131.3	1408.2	1422.4	1398.7
80°	721.8	686.3	560.9	537.2	542.0	657.9	868.6	1074.5	1131.3	1145.5	1093.4
82.5°	392.9	435.5	397.6	373.9	373.9	513.6	740.8	854.4	811.8	674.5	643.7
85°	168.0	203.5	205.9	179.9	172.8	317.1	497.0	466.2	433.1	414.2	409.4
87.5°	47.3	66.3	66.3	49.7	37.9	87.6	99.4	28.4	0.0	2.4	4.7
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)