

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: P457096

Luminaire Tested: **GALN-SA8B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457096
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-SA8B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36870 lumens
Efficiency: N/A
Efficacy: 113.4 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): 325
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

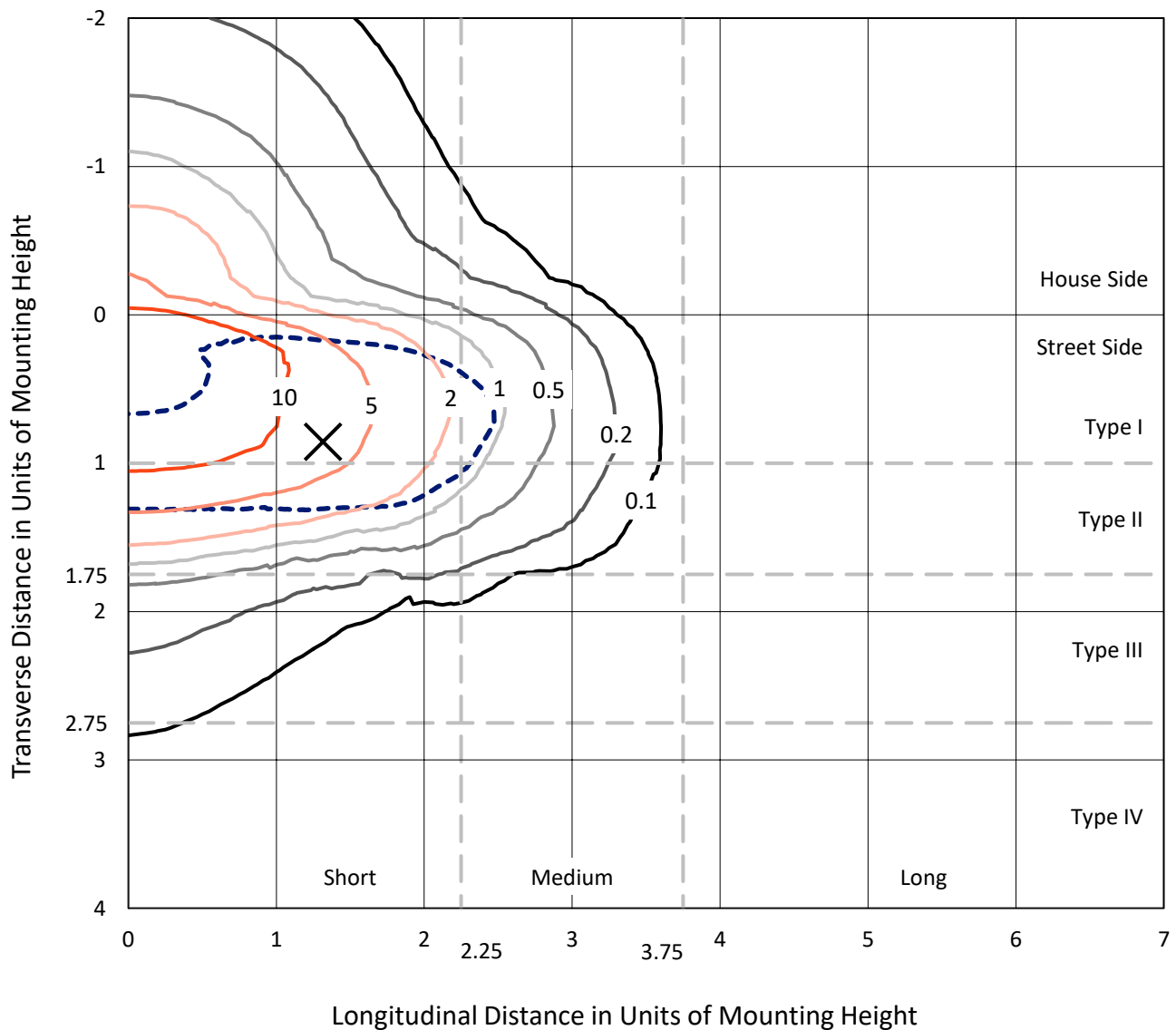


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

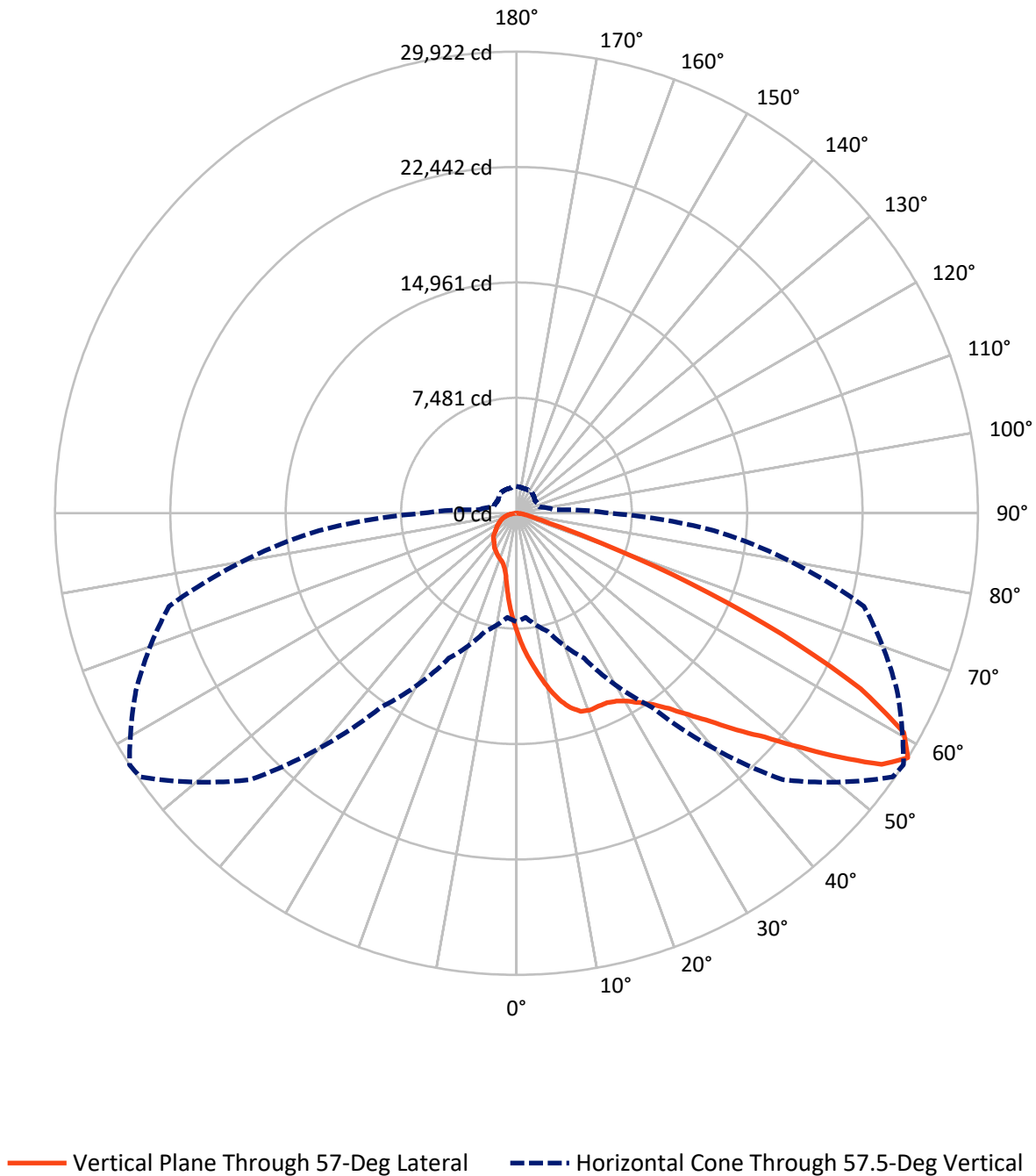


Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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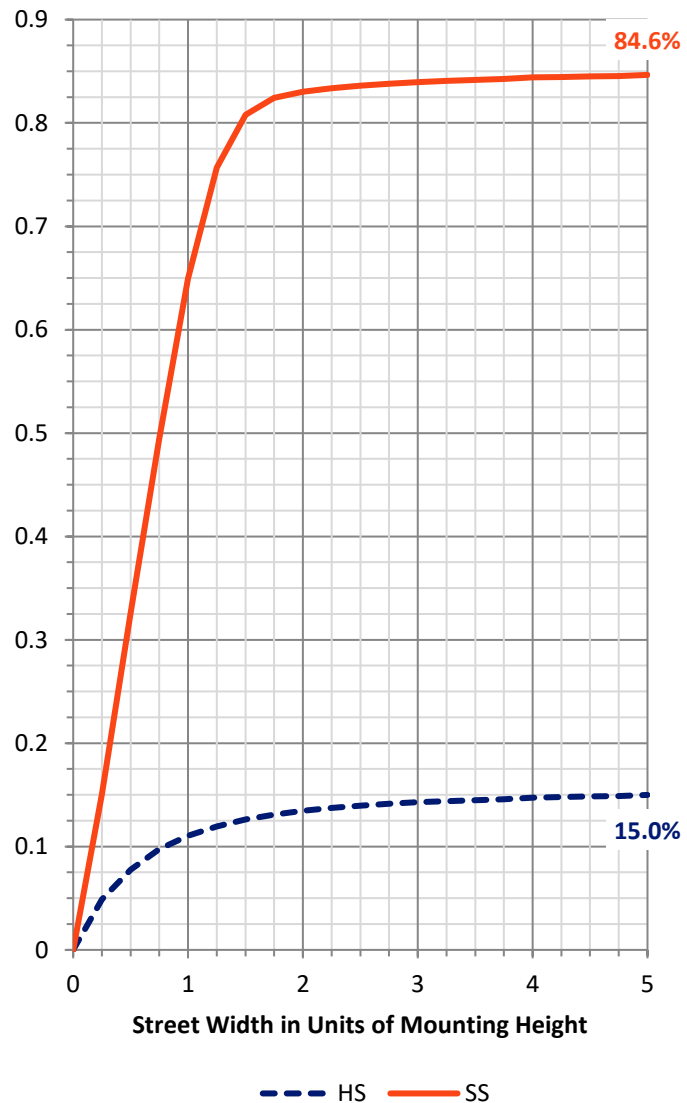
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5606.9	0.0	5606.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	31263.1	0.0	31263.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	36870.0	0.0	36870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.5	2.0
10°-20°	2194.0	6.0
20°-30°	3643.1	9.9
30°-40°	5487.6	14.9
40°-50°	8239.1	22.3
50°-60°	9235.0	25.0
60°-70°	5404.8	14.7
70°-80°	1598.7	4.3
80°-90°	323.1	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°	36870.0	100.0
0°-180°	36870.0	100.0

Coefficient of Utilization



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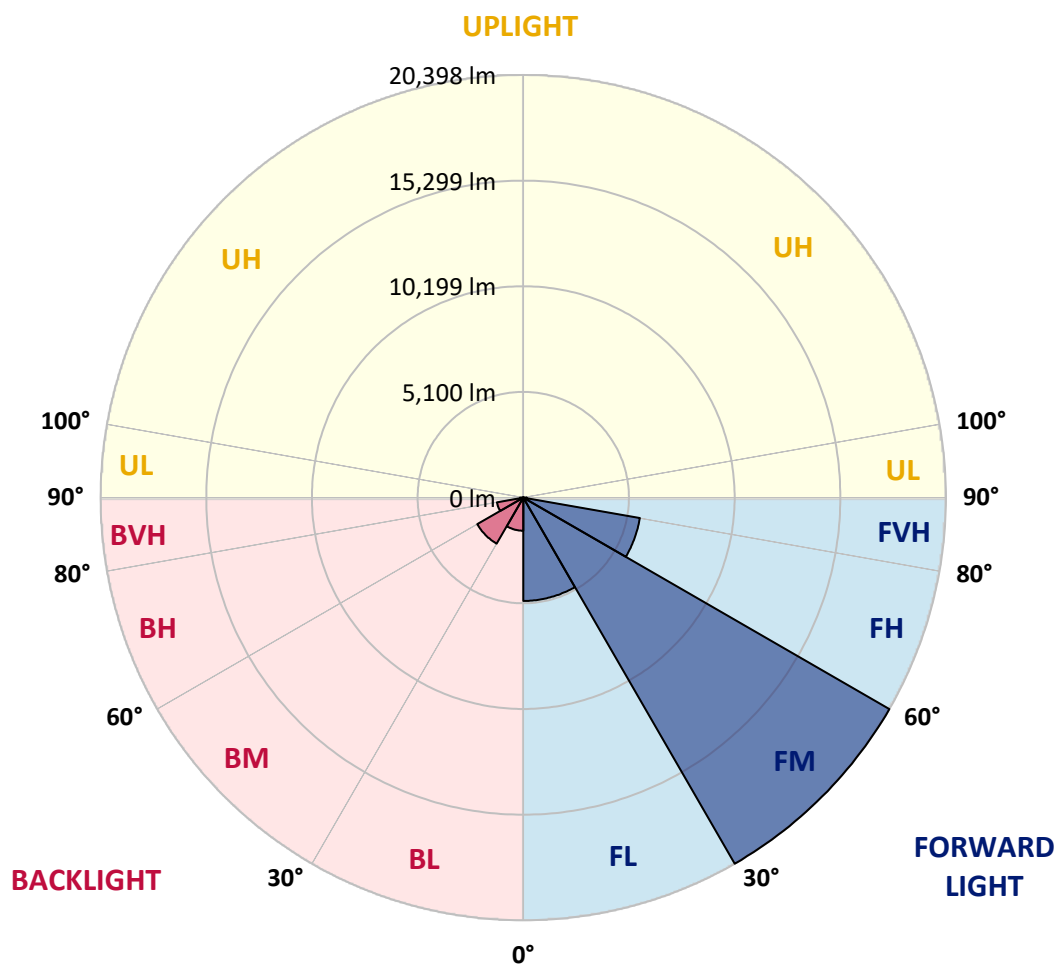
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4984.0	13.5			
FM	(30°-60°)	20398.1	55.3			
FH	(60°-80°)	5713.4	15.5			G3/7500
FVH	(80°-90°)	167.7	0.5			G2/225
BL	(0°-30°)	1597.6	4.3	B3/2500		
BM	(30°-60°)	2563.7	7.0	B3/5000		
BH	(60°-80°)	1290.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	155.5	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°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0
2.5°	9624.9	9520.0	9437.2	9364.6	9269.7	9013.4	8757.1	8753.1	8549.2	8234.4	7911.5
5°	11193.1	11051.8	11070.0	10843.9	10617.9	10246.6	9703.6	9675.4	9241.5	8652.2	8052.7
7.5°	12214.3	12216.3	12159.8	12030.7	11786.5	11364.7	10749.1	10609.8	10006.4	9112.3	8214.2
10°	12161.9	12216.3	12311.2	12422.2	12496.9	12289.0	11727.9	11558.4	10773.3	9669.3	8393.8
12.5°	11463.5	11548.3	11683.5	11962.0	12412.1	12755.2	12563.5	12426.2	11661.3	10224.4	8591.6
15°	11027.6	11078.1	11152.7	11340.4	11824.8	12646.2	13142.7	13070.1	12498.9	10852.0	8813.6
17.5°	10894.4	10944.9	10969.1	11084.1	11429.2	12270.8	13370.8	13499.9	13241.6	11429.2	9037.6
20°	11027.6	11051.8	11051.8	11120.4	11390.9	12050.8	13360.7	13621.0	13851.1	12121.5	9247.5
22.5°	11376.8	11386.9	11372.7	11396.9	11598.8	12111.4	13265.8	13588.7	14343.6	12708.8	9411.0
25°	11943.9	11960.0	11867.2	11810.7	11958.0	12377.8	13318.3	13615.0	14729.0	13269.9	9520.0
27.5°	12587.7	12607.9	12494.9	12363.7	12432.3	12706.8	13524.2	13790.6	15017.6	13822.9	9588.6
30°	13376.8	13384.9	13195.2	13037.8	12993.4	13197.2	13875.3	14123.6	15376.9	14474.7	9691.5
32.5°	14184.1	14244.7	14000.5	13778.5	13703.8	13766.3	14394.0	14634.2	15804.8	15175.1	9857.0
35°	15282.0	15292.1	14999.5	14729.0	14482.8	14563.5	15058.0	15231.6	16396.1	15984.4	10091.1
37.5°	16652.4	16745.3	16341.6	15837.0	15534.3	15417.3	15861.3	16051.0	17225.6	16977.3	10444.3
40°	18174.2	18208.5	17863.3	17548.5	16995.5	16656.4	16963.2	17169.1	18248.8	18162.0	10854.0
42.5°	19130.8	19205.5	19231.7	19199.4	18783.7	18214.5	18331.6	18428.5	19459.8	19274.1	11273.8
45°	19453.7	19564.7	19940.1	20735.3	20779.7	20218.6	19946.2	20039.0	20779.7	20396.2	11675.5
47.5°	18918.9	19108.6	19800.9	21431.6	22652.6	22695.0	21873.6	21669.7	21982.6	21326.6	11966.1
50°	17536.4	17576.8	18636.3	20997.7	23530.5	25062.4	24212.7	23833.3	23124.9	22014.8	12165.9
52.5°	15397.1	15443.5	16331.5	18981.4	22989.7	26717.3	26949.4	26271.3	24285.4	22549.7	12297.1
55°	11429.2	11697.7	12674.5	15235.6	20426.5	26561.9	29125.1	28739.6	25688.0	22973.5	12502.9
57.5°	7027.5	6781.3	7939.7	10365.6	15362.8	24426.6	29797.1	29922.3	27232.0	23328.7	12848.0
60°	3233.2	3281.6	3760.0	5346.3	9364.6	19108.6	28065.5	28856.6	28085.7	23316.6	12934.8
62.5°	2228.1	2183.7	2062.6	2347.2	4270.6	12085.2	23706.1	25046.2	26374.2	22592.1	12589.7
65°	1992.0	1947.6	1713.5	1634.8	1961.7	5267.6	17233.7	18924.9	22206.6	20763.5	11730.0
67.5°	1860.8	1800.3	1558.1	1404.7	1400.7	2096.9	10161.8	12198.2	16470.8	17554.6	10163.8
70°	1723.6	1675.1	1435.0	1265.4	1192.8	1317.9	4466.3	5846.8	10694.6	12650.3	7917.5
72.5°	1586.3	1529.8	1313.9	1132.2	1037.4	986.9	1711.5	2226.1	6042.6	7584.5	4853.8
75°	1386.5	1358.3	1174.6	1025.3	922.3	797.2	1085.8	1239.2	2890.1	3483.5	2436.0
77.5°	1213.0	1182.7	1043.4	896.1	821.4	647.9	771.0	841.6	1219.0	1412.8	1099.9
80°	888.0	918.3	879.9	791.1	732.6	508.6	518.7	577.2	724.5	801.2	672.1
82.5°	563.1	619.6	678.1	609.5	555.0	401.6	359.2	381.4	494.5	524.7	298.7
85°	236.1	240.2	393.6	371.4	316.9	238.2	216.0	228.1	264.4	276.5	139.3
87.5°	90.8	88.8	139.3	129.2	98.9	68.6	68.6	76.7	104.9	96.9	44.4
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°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0
2.5°	7772.2	7628.9	7344.3	6991.1	6732.8	6442.2	6185.9	6002.2	5933.6	5901.3	5840.8
5°	7766.1	7483.6	6894.3	6276.7	5780.2	5271.6	4841.7	4563.2	4539.0	4353.3	4335.2
7.5°	7768.2	7336.3	6397.8	5489.6	4732.7	4212.0	3856.8	3764.0	3653.0	3624.7	3638.9
10°	7774.2	7148.6	5865.0	4710.5	3977.9	3636.8	3503.6	3467.3	3471.4	3483.5	3485.5
12.5°	7782.3	6966.9	5312.0	4119.2	3554.1	3412.8	3398.7	3431.0	3465.3	3491.5	3497.6
15°	7792.4	6759.1	4773.1	3642.9	3342.2	3330.1	3376.5	3431.0	3479.4	3517.8	3523.8
17.5°	7780.3	6516.9	4321.0	3350.3	3225.1	3283.7	3360.4	3429.0	3473.4	3509.7	3513.7
20°	7752.0	6246.4	3885.1	3144.4	3152.5	3247.3	3330.1	3394.7	3443.1	3461.3	3475.4
22.5°	7643.0	5923.5	3505.7	2985.0	3065.7	3196.9	3295.8	3334.1	3279.6	3241.3	3251.4
25°	7457.4	5503.7	3152.5	2855.8	2987.0	3126.2	3227.1	3134.3	3089.9	3073.8	3081.8
27.5°	7225.3	5043.6	2886.1	2720.6	2886.1	3047.5	3019.3	3003.1	2982.9	2956.7	2962.8
30°	6975.0	4593.5	2660.0	2615.6	2777.1	2869.9	2882.0	2908.3	2886.1	2845.7	2861.8
32.5°	6742.9	4169.7	2488.5	2526.8	2700.4	2686.3	2777.1	2807.4	2704.4	2569.2	2575.3
35°	6545.1	3776.1	2359.3	2440.0	2569.2	2575.3	2666.1	2561.1	2450.1	2385.5	2389.6
37.5°	6395.8	3469.3	2274.5	2365.4	2401.7	2478.4	2429.9	2375.5	2361.3	2316.9	2318.9
40°	6307.0	3200.9	2220.1	2306.8	2300.8	2353.3	2197.9	2252.3	2272.5	2258.4	2260.4
42.5°	6218.2	3011.2	2163.5	2226.1	2224.1	2121.2	2086.8	2133.3	2185.7	2191.8	2187.8
45°	6147.5	2863.9	2105.0	2103.0	2143.4	1981.9	1971.8	2000.1	2074.7	2111.1	2109.0
47.5°	6068.8	2740.8	2016.2	1959.7	1971.8	1895.1	1879.0	1891.1	1981.9	2040.4	2056.6
50°	5969.9	2617.6	1905.2	1828.5	1778.1	1814.4	1818.4	1820.4	1911.3	1977.9	1992.0
52.5°	5891.2	2524.8	1778.1	1721.5	1661.0	1741.7	1772.0	1776.0	1830.5	1885.0	1895.1
55°	5937.6	2472.3	1652.9	1612.6	1558.1	1667.1	1725.6	1733.7	1745.8	1786.1	1792.2
57.5°	6076.9	2484.4	1552.0	1499.5	1459.2	1578.3	1677.1	1683.2	1675.1	1723.6	1731.6
60°	6119.3	2478.4	1477.3	1374.4	1350.2	1483.4	1606.5	1618.6	1616.6	1687.2	1701.4
62.5°	5941.7	2401.7	1402.7	1269.5	1253.3	1386.5	1507.6	1556.1	1566.1	1667.1	1685.2
65°	5523.9	2244.3	1303.8	1158.5	1158.5	1283.6	1412.8	1479.4	1507.6	1642.8	1663.0
67.5°	4972.9	2058.6	1202.9	1063.6	1059.6	1184.7	1311.8	1380.5	1424.9	1608.5	1620.6
70°	4127.3	1808.3	1077.7	960.7	960.7	1073.7	1188.7	1271.5	1336.1	1543.9	1543.9
72.5°	2827.5	1503.6	926.4	843.6	845.6	950.6	1067.6	1160.5	1237.2	1414.8	1418.8
75°	1788.2	1174.6	760.9	718.5	726.6	825.5	946.5	1043.4	1196.8	1398.6	1404.7
77.5°	950.6	825.5	605.5	595.4	605.5	696.3	831.5	964.7	1200.8	1213.0	1192.8
80°	615.6	585.3	478.3	458.1	462.2	561.1	740.7	916.3	964.7	976.8	932.4
82.5°	335.0	371.4	339.1	318.9	318.9	438.0	631.7	728.6	692.3	575.2	549.0
85°	143.3	173.6	175.6	153.4	147.3	270.4	423.8	397.6	369.3	353.2	349.2
87.5°	40.4	56.5	56.5	42.4	32.3	74.7	84.8	24.2	0.0	2.0	4.0
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)