

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: P455026

Luminaire Tested: **GALN-SA6A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21370 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182
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



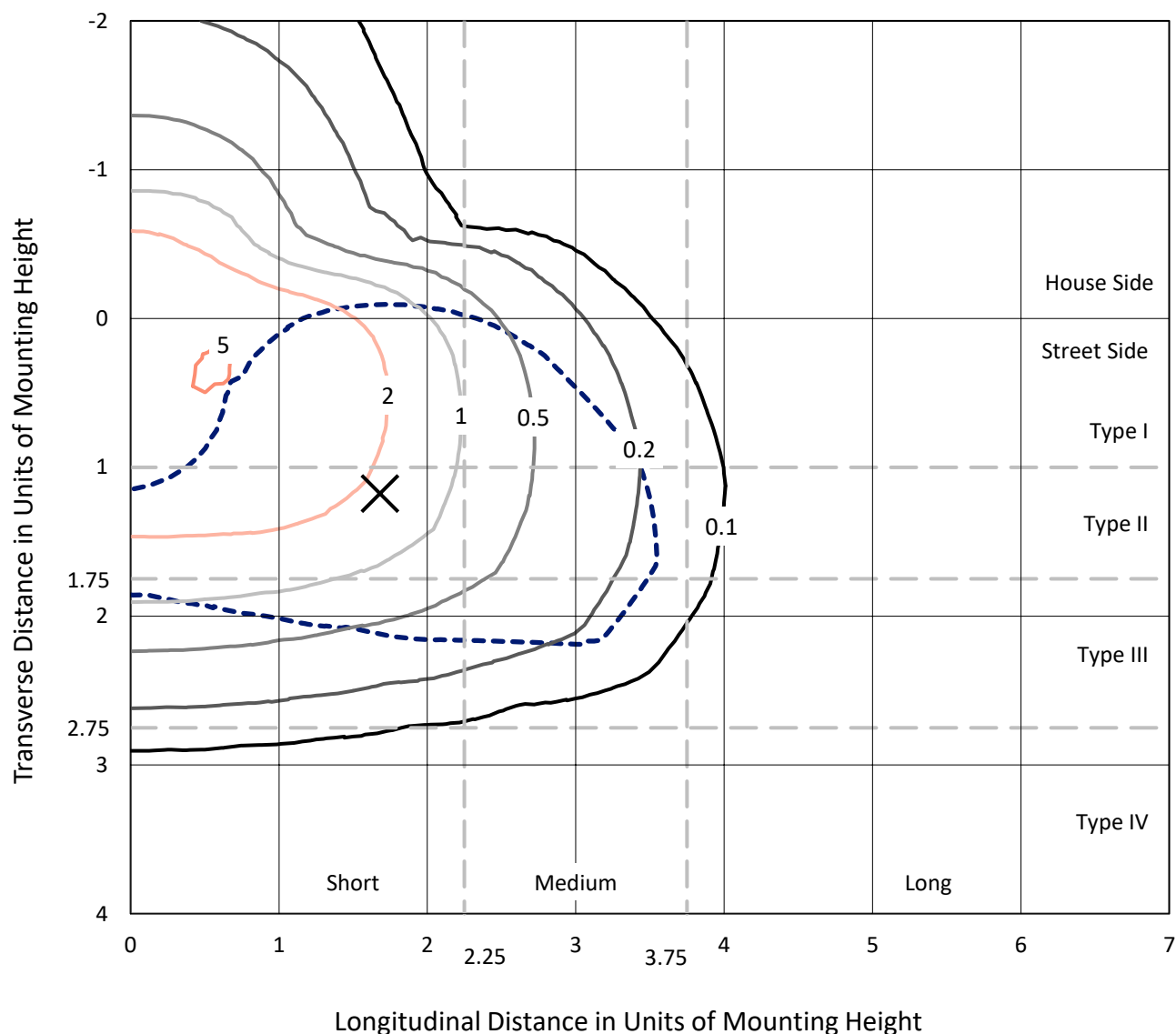
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

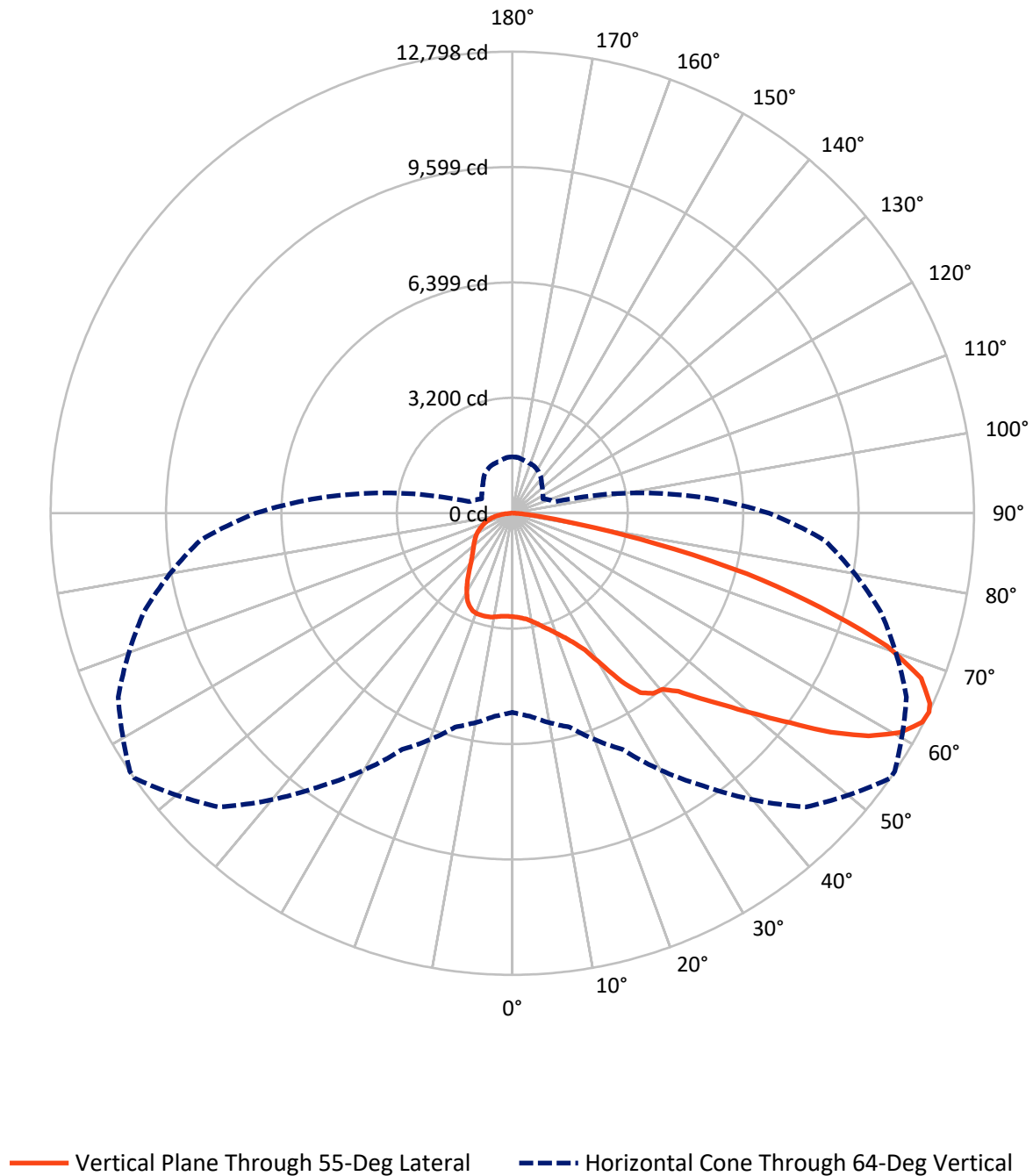


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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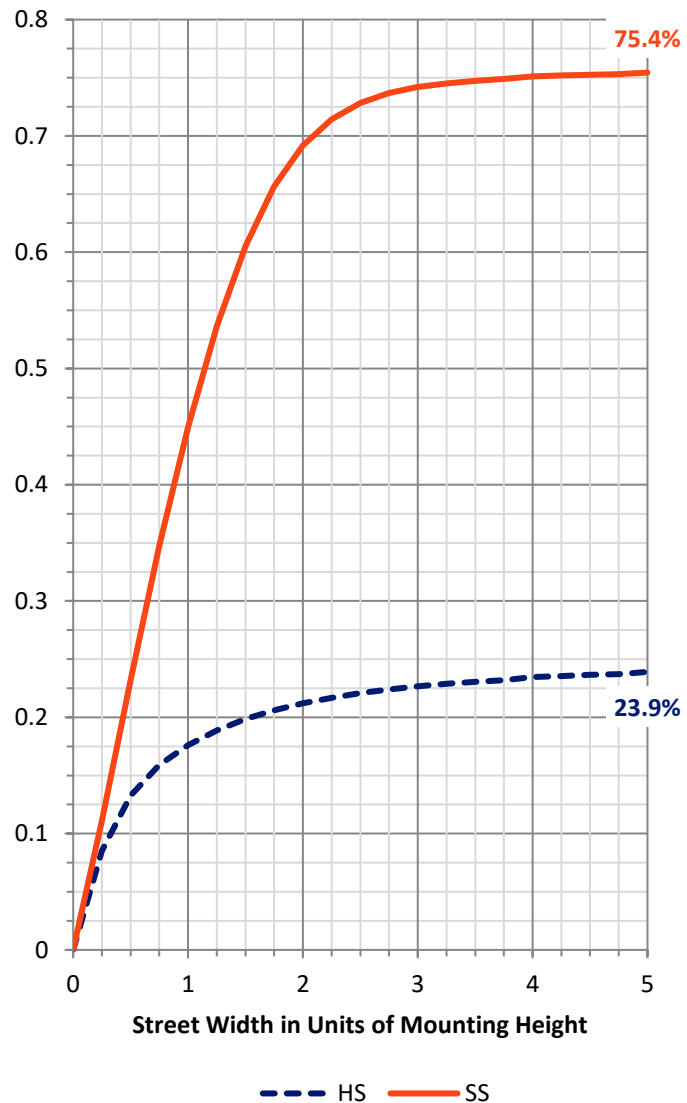
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5191.2	0.0	5191.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16178.8	0.0	16178.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	21370.0	0.0	21370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.3
10°-20°	880.0	4.1
20°-30°	1566.7	7.3
30°-40°	2410.5	11.3
40°-50°	3417.1	16.0
50°-60°	4946.1	23.1
60°-70°	5118.7	24.0
70°-80°	2397.1	11.2
80°-90°	354.9	1.7
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°	21370.0	100.0
0°-180°	21370.0	100.0

Coefficient of Utilization



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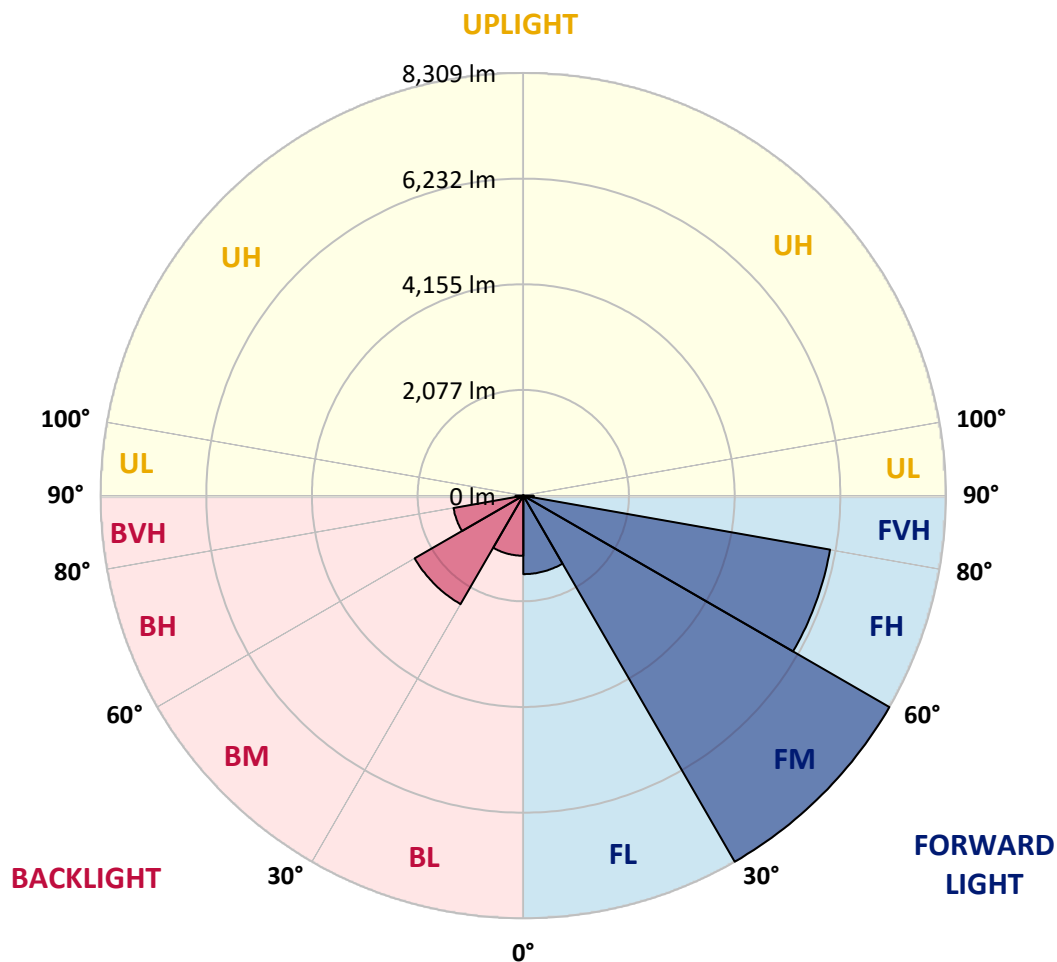
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.3	7.2			
FM	(30°-60°)	8309.2	38.9			
FH	(60°-80°)	6123.1	28.7			G3/7500
FVH	(80°-90°)	203.2	1.0			G2/225
BL	(0°-30°)	1182.4	5.5	B3/2500		
BM	(30°-60°)	2464.5	11.5	B2/2500		
BH	(60°-80°)	1392.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	151.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2899.4	2898.2	2901.8	2898.2	2900.6	2892.2	2888.7	2891.0	2887.5	2881.5	2870.8
5°	2935.1	2933.9	2935.1	2930.3	2932.7	2928.0	2919.6	2922.0	2916.0	2902.9	2887.5
7.5°	2995.9	2991.1	2991.1	2989.9	2985.1	2978.0	2972.0	2969.7	2963.7	2947.0	2923.2
10°	3074.5	3074.5	3075.7	3066.1	3072.1	3059.0	3053.0	3051.8	3031.6	3010.2	2976.8
12.5°	3178.1	3184.1	3180.5	3175.7	3173.3	3168.6	3148.3	3153.1	3130.5	3093.5	3053.0
15°	3306.8	3316.3	3310.3	3308.0	3302.0	3284.1	3275.8	3272.2	3242.4	3188.8	3135.2
17.5°	3477.1	3465.2	3460.4	3454.5	3429.5	3416.4	3402.1	3399.7	3373.5	3310.3	3227.0
20°	3626.0	3642.7	3633.1	3627.2	3602.2	3577.2	3566.4	3562.9	3540.2	3471.1	3337.7
22.5°	3803.5	3807.1	3810.6	3796.3	3784.4	3765.4	3746.3	3740.4	3732.0	3660.5	3497.4
25°	3992.9	4007.2	3995.3	3981.0	3966.7	3965.5	3983.4	3981.0	3977.4	3908.3	3709.4
27.5°	4301.4	4314.5	4318.1	4302.6	4247.8	4252.6	4293.1	4306.2	4361.0	4246.6	3982.2
30°	4475.3	4488.4	4518.2	4576.6	4663.5	4739.8	4837.4	4867.2	4919.6	4704.0	4306.2
32.5°	4582.5	4587.3	4640.9	4749.3	5010.2	5294.9	5560.5	5571.2	5604.6	5302.0	4602.8
35°	4751.7	4755.3	4798.1	4917.3	5223.4	5697.5	6108.5	6121.6	6094.2	5487.8	4741.0
37.5°	4960.1	4969.7	4997.1	5095.9	5461.6	6034.6	6336.0	6326.4	6083.4	5635.5	4985.2
40°	5263.9	5263.9	5231.7	5365.1	5713.0	6227.6	6415.8	6399.1	6334.8	6063.2	5356.8
42.5°	5531.9	5527.1	5603.4	5693.9	6027.5	6525.4	6750.5	6777.9	6883.9	6600.4	5779.7
45°	5880.9	5902.4	5945.3	6109.6	6562.3	7034.0	7324.7	7350.9	7501.0	7232.9	6274.0
47.5°	6233.5	6240.7	6375.3	6594.5	7224.6	7723.7	7962.0	8004.8	8141.8	7972.7	6806.5
50°	6483.7	6551.6	6767.2	7112.6	7907.2	8564.7	8750.5	8801.7	9043.6	8777.9	7427.1
52.5°	6748.1	6814.8	7078.1	7604.6	8691.0	9424.7	9653.5	9688.0	9939.3	9592.7	8062.0
55°	6974.5	7036.4	7335.4	8040.6	9315.2	10302.7	10717.2	10676.7	10797.0	10220.5	8551.6
57.5°	7011.4	7061.4	7437.8	8319.3	9784.5	11055.5	11649.9	11673.7	11534.4	10689.8	8955.4
60°	6725.5	6827.9	7260.3	8289.5	9995.3	11579.6	12345.6	12362.2	11966.8	10930.4	9116.2
62.5°	6219.2	6208.5	6731.4	7810.7	9699.9	11698.7	12755.3	12737.5	12135.9	10814.9	8960.2
64°	5520.0	5648.7	6137.0	7222.2	9223.4	11515.3	12798.2	12788.7	12054.9	10574.2	8694.5
65°	5093.6	5086.4	5568.8	6741.0	8749.3	11238.9	12722.0	12708.9	11885.8	10358.6	8488.5
67.5°	3677.2	3693.9	4170.4	5202.0	7112.6	10158.5	12225.2	12176.4	11218.7	9643.9	7704.7
70°	2227.5	2237.1	2611.1	3450.9	5105.5	8212.1	11019.8	11022.1	10197.8	8576.6	6557.5
72.5°	1173.3	1198.3	1348.4	1959.5	3100.7	5761.8	8939.9	9152.0	8755.3	7319.9	5180.5
75°	652.8	656.3	762.4	966.1	1581.9	3224.6	6719.5	6780.3	6931.6	5891.7	3830.9
77.5°	497.9	505.1	538.4	624.2	861.2	1495.0	4066.7	4371.7	4885.1	4153.7	2185.8
80°	403.8	411.0	439.6	490.8	573.0	708.8	1889.2	2053.6	2614.7	1844.0	852.9
82.5°	314.5	309.7	346.6	380.0	416.9	419.3	775.5	857.7	1064.9	793.3	369.3
85°	233.5	233.5	263.3	256.1	269.2	245.4	341.9	377.6	426.4	337.1	171.5
87.5°	92.9	102.4	172.7	154.9	120.3	96.5	126.3	133.4	147.7	132.2	71.5
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°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2872.0	2875.5	2867.2	2861.3	2858.9	2855.3	2851.7	2852.9	2857.7	2862.4	2861.3
5°	2886.3	2887.5	2873.2	2866.0	2861.3	2856.5	2856.5	2860.1	2869.6	2876.7	2876.7
7.5°	2922.0	2922.0	2901.8	2888.7	2881.5	2873.2	2870.8	2872.0	2879.1	2888.7	2889.8
10°	2978.0	2973.2	2947.0	2926.8	2913.7	2893.4	2875.5	2866.0	2869.6	2875.5	2875.5
12.5°	3045.9	3032.8	2999.4	2972.0	2939.9	2901.8	2864.8	2845.8	2844.6	2850.5	2848.1
15°	3118.6	3104.3	3057.8	3007.8	2951.8	2895.8	2851.7	2824.3	2802.9	2796.9	2810.0
17.5°	3203.1	3173.3	3109.0	3039.9	2956.5	2883.9	2814.8	2758.8	2720.7	2710.0	2713.5
20°	3305.6	3266.3	3179.3	3070.9	2953.0	2841.0	2733.8	2658.7	2596.8	2577.7	2580.1
22.5°	3447.3	3379.4	3252.0	3086.4	2923.2	2760.0	2611.1	2513.4	2438.4	2408.6	2426.5
25°	3608.1	3534.3	3321.1	3082.8	2845.8	2630.2	2465.8	2338.3	2270.4	2226.3	2235.9
27.5°	3829.7	3698.7	3394.9	3050.7	2735.0	2471.7	2281.1	2160.8	2098.9	2076.3	2087.0
30°	4113.2	3911.9	3474.7	2963.7	2559.9	2271.6	2095.3	2016.7	1979.8	1951.2	1960.7
32.5°	4318.1	4062.0	3492.6	2817.2	2370.5	2089.4	1969.0	1910.7	1870.2	1842.8	1848.7
35°	4464.6	4189.4	3484.2	2637.3	2172.7	1939.3	1869.0	1821.3	1755.8	1696.3	1685.5
37.5°	4661.2	4349.1	3423.5	2440.8	1977.4	1838.0	1788.0	1699.8	1605.7	1525.9	1522.3
40°	4962.5	4536.1	3293.7	2209.7	1810.6	1763.0	1702.2	1587.9	1486.6	1422.3	1417.5
42.5°	5273.4	4708.8	3117.4	1966.7	1673.6	1684.4	1610.5	1497.3	1435.4	1393.7	1388.9
45°	5653.4	4895.8	2926.8	1755.8	1572.4	1610.5	1530.7	1465.2	1428.2	1400.8	1393.7
47.5°	6064.4	5087.6	2712.4	1566.4	1486.6	1542.6	1497.3	1467.6	1447.3	1428.2	1419.9
50°	6507.5	5302.0	2511.0	1413.9	1409.2	1472.3	1493.8	1483.0	1471.1	1465.2	1458.0
52.5°	6993.5	5521.2	2341.9	1306.7	1341.3	1422.3	1495.0	1503.3	1503.3	1499.7	1495.0
55°	7322.3	5673.7	2170.4	1219.8	1272.2	1381.8	1492.6	1524.7	1536.6	1531.9	1527.1
57.5°	7565.3	5757.1	1954.8	1144.7	1213.8	1342.5	1479.5	1527.1	1539.0	1545.0	1542.6
60°	7615.3	5679.6	1672.4	1066.1	1150.7	1285.3	1431.8	1491.4	1506.9	1543.8	1547.4
62.5°	7390.2	5441.4	1391.3	988.7	1073.3	1198.3	1367.5	1450.9	1481.8	1539.0	1545.0
64°	7113.8	5174.6	1235.3	939.9	1023.2	1149.5	1335.3	1440.2	1480.7	1556.9	1561.7
65°	6911.3	4980.4	1137.6	908.9	991.1	1117.3	1317.5	1443.7	1491.4	1584.3	1591.4
67.5°	6165.6	4312.1	941.0	836.2	914.8	1062.5	1321.0	1473.5	1489.0	1595.0	1593.8
70°	5101.9	3433.0	788.6	769.5	841.0	1018.5	1306.7	1425.9	1427.1	1497.3	1480.7
72.5°	3820.2	2537.2	683.7	700.4	758.8	913.6	1234.1	1361.5	1341.3	1350.8	1334.1
75°	2624.2	1678.4	588.5	626.6	673.0	807.6	1131.6	1236.5	1204.3	1192.4	1180.5
77.5°	1400.8	927.9	489.6	553.9	584.9	698.0	987.5	1088.8	1055.4	1008.9	993.5
80°	567.0	437.2	394.3	458.6	476.5	562.2	821.9	885.1	860.0	779.0	752.8
82.5°	284.7	262.1	309.7	360.9	362.1	401.4	611.1	670.6	614.7	515.8	493.2
85°	148.9	153.7	213.2	253.7	223.9	216.8	366.9	406.2	372.8	324.0	291.8
87.5°	53.6	61.9	112.0	110.8	78.6	41.7	81.0	39.3	21.4	13.1	16.7
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)