

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: P194446

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL2-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51267 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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: 25 FT



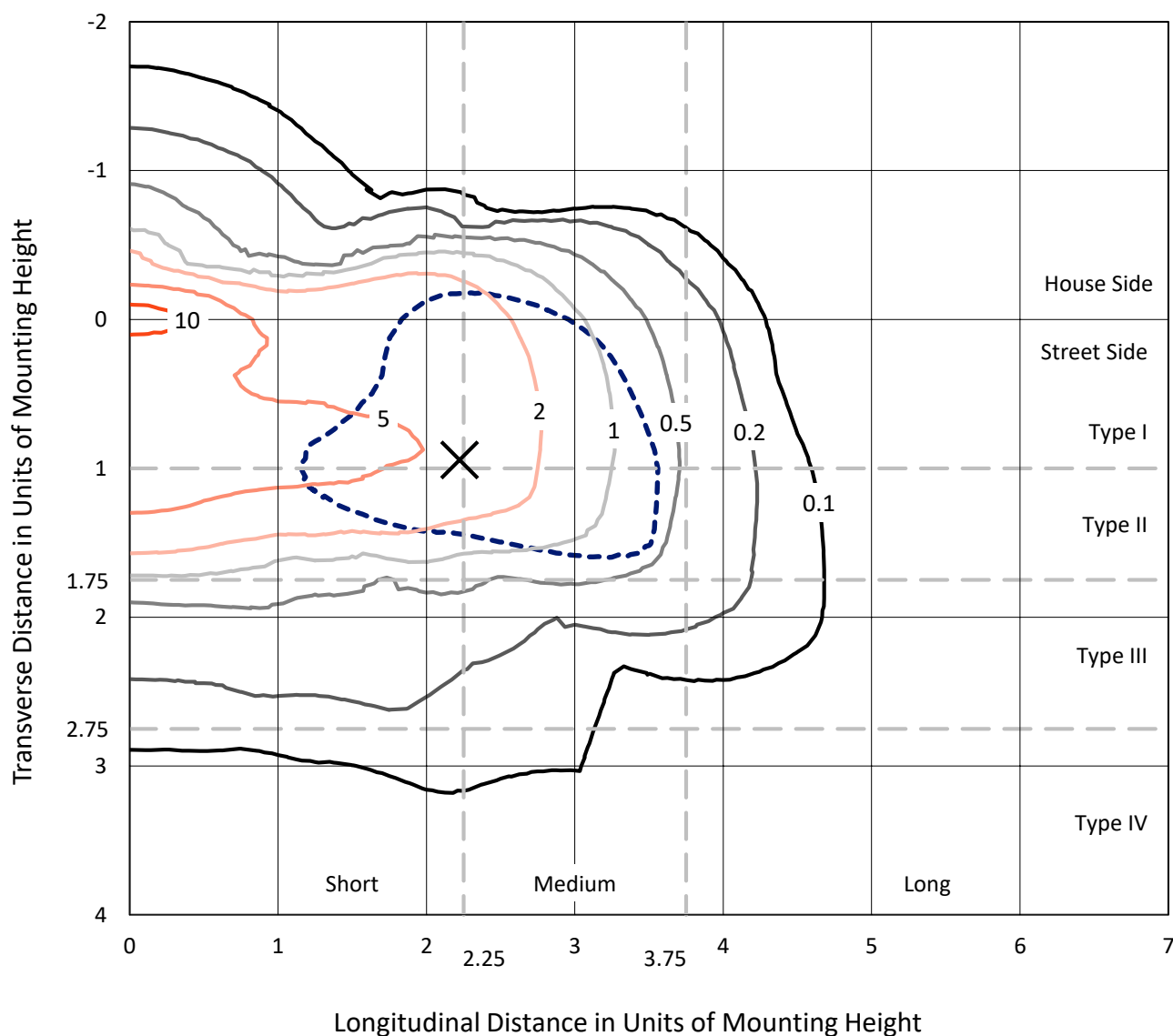
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

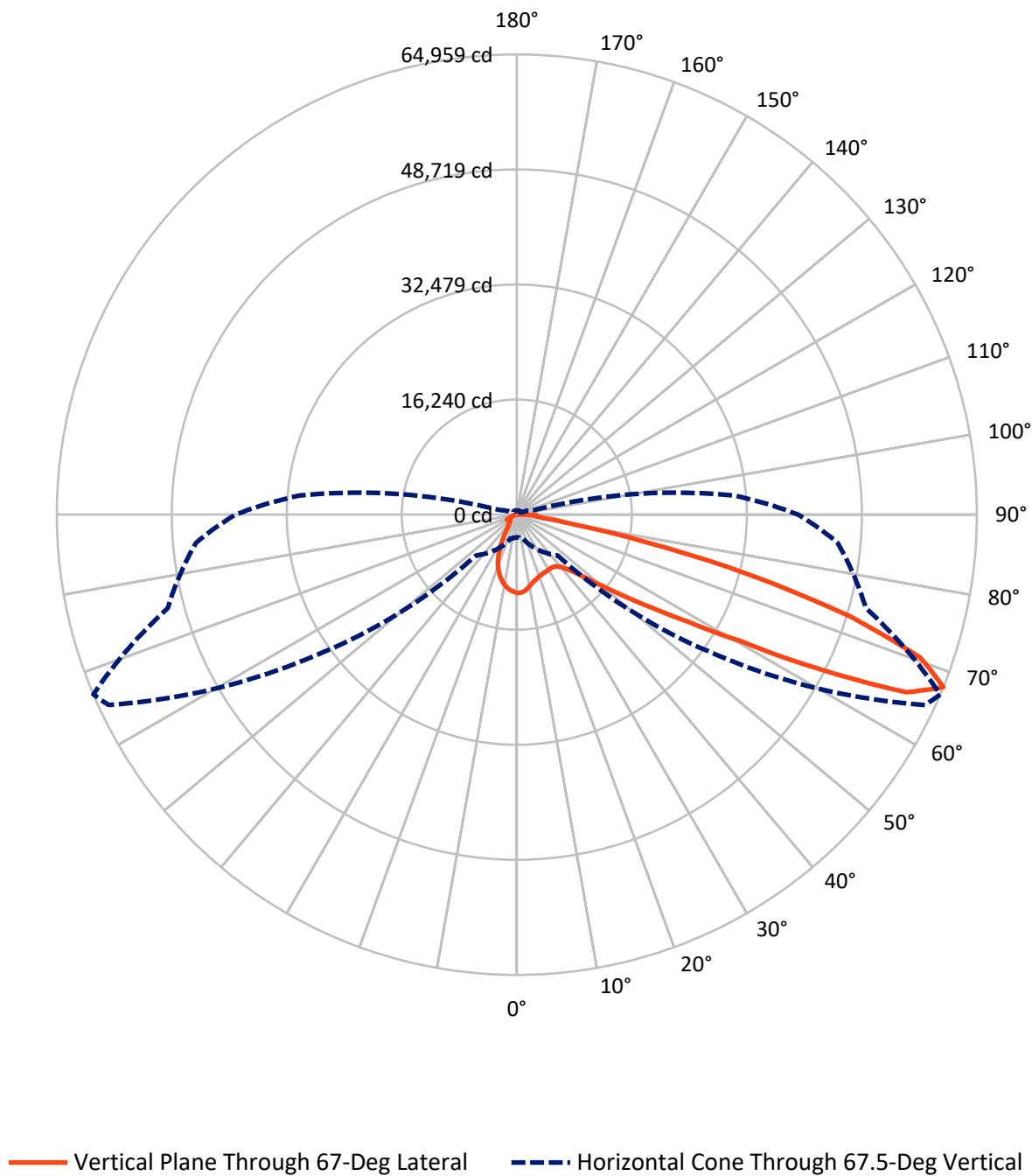


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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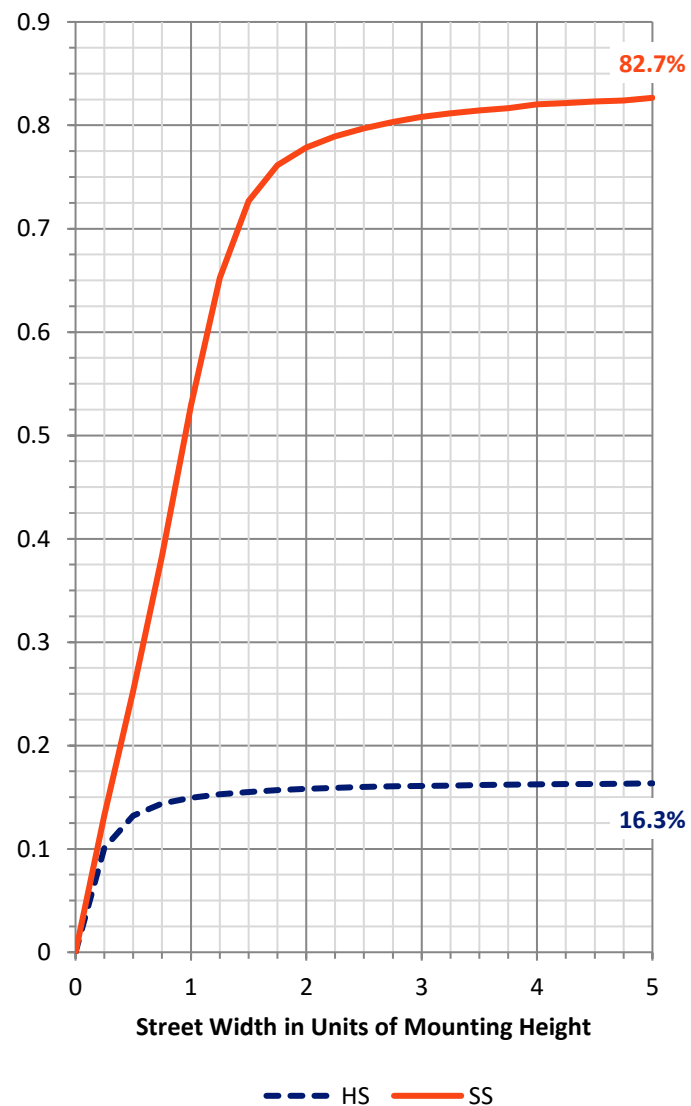
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8494.4	0.0	8494.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	42772.6	0.0	42772.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	51267.0	0.0	51267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.4	1.8
10°-20°	2182.9	4.3
20°-30°	2959.0	5.8
30°-40°	4206.6	8.2
40°-50°	7037.7	13.7
50°-60°	11133.6	21.7
60°-70°	14183.1	27.7
70°-80°	7429.1	14.5
80°-90°	1191.5	2.3
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°	51267.0	100.0
0°-180°	51267.0	100.0

Coefficient of Utilization



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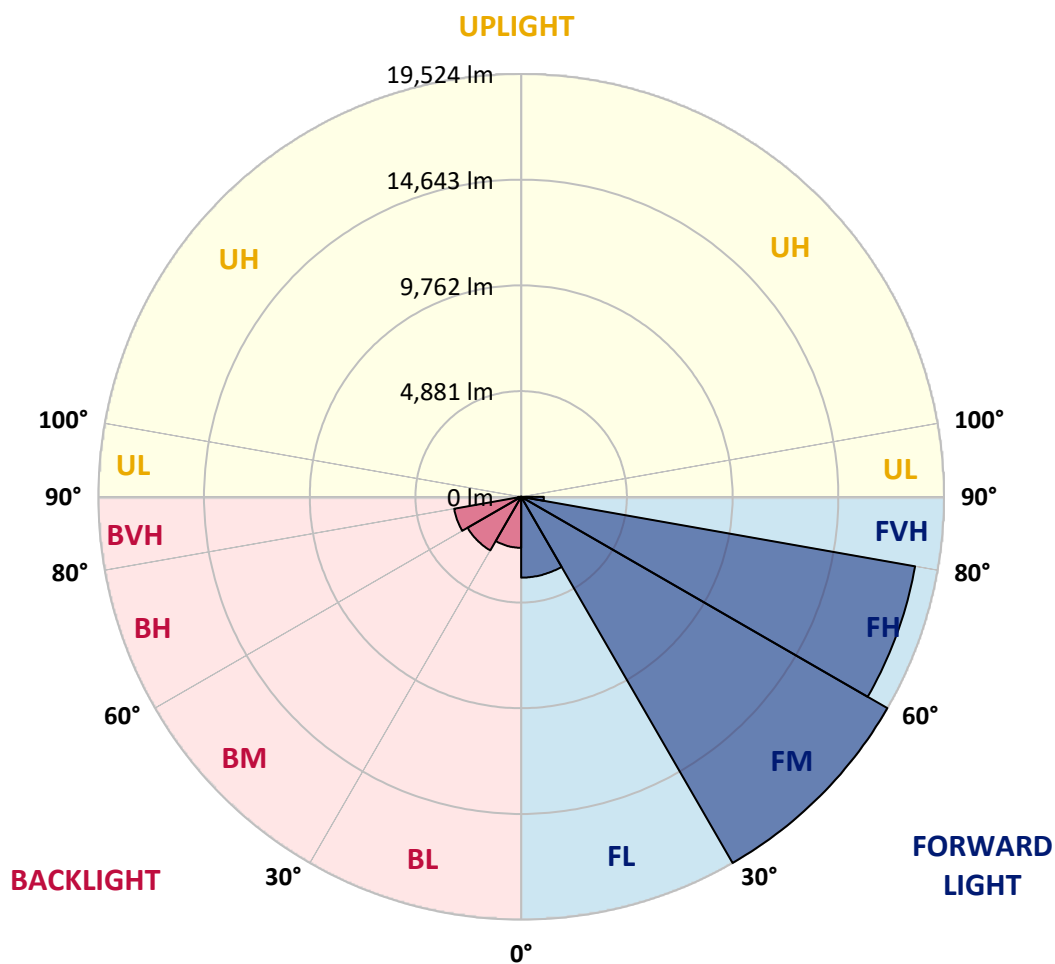
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3731.0	7.3			
FM	(30°-60°)	19523.5	38.1			
FH	(60°-80°)	18470.4	36.0			G5
FVH	(80°-90°)	1047.7	2.0			G5
BL	(0°-30°)	2354.4	4.6	B3/2500		
BM	(30°-60°)	2854.4	5.6	B3/5000		
BH	(60°-80°)	3141.8	6.1	B4/5000		G4/5000
BVH	(80°-90°)	143.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2
2.5°	10603.1	10620.8	10676.4	10711.8	10871.1	10939.3	10987.4	11035.4	11043.0	11065.8	11043.0
5°	9490.7	9528.6	9632.3	9748.6	10057.0	10299.7	10555.1	10820.5	10868.6	11040.5	11088.5
7.5°	8628.6	8618.5	8704.5	8843.5	9159.5	9495.8	9943.2	10471.6	10575.3	10962.1	11149.2
10°	7999.1	7991.5	8082.5	8226.6	8527.5	8846.0	9351.7	10074.7	10221.3	10838.2	11207.3
12.5°	7533.9	7536.4	7627.5	7786.7	8092.6	8413.7	8926.9	9690.4	9877.5	10694.1	11268.0
15°	7225.5	7245.7	7319.0	7488.4	7786.7	8107.8	8610.9	9402.2	9612.1	10580.3	11336.3
17.5°	7121.8	7154.7	7180.0	7303.9	7559.2	7880.3	8373.3	9189.9	9412.3	10502.0	11396.9
20°	7217.9	7255.8	7207.8	7250.8	7412.6	7695.7	8186.2	9023.0	9250.5	10413.5	11404.5
22.5°	7630.0	7665.4	7523.8	7399.9	7389.8	7561.7	8032.0	8891.5	9126.7	10347.8	11407.1
25°	8355.6	8378.3	8140.7	7852.5	7571.8	7513.7	7923.2	8800.5	9050.8	10289.6	11359.0
27.5°	9245.5	9263.2	8990.1	8565.4	8001.6	7627.5	7885.3	8747.4	9007.8	10239.0	11278.1
30°	10327.5	10411.0	10044.4	9508.4	8686.8	7963.7	7961.2	8719.6	8959.8	10153.1	11118.8
32.5°	11434.9	11470.3	11217.4	10673.9	9609.5	8555.3	8173.5	8739.8	8947.2	10049.4	10916.6
35°	12557.4	12602.9	12438.5	12001.2	10871.1	9422.4	8588.2	8858.7	9025.5	10014.0	10775.0
37.5°	14011.1	14071.7	13844.2	13338.6	12405.7	10598.0	9278.3	9157.0	9265.7	10115.2	10732.0
40°	16309.2	16281.3	15616.4	14863.0	14084.4	12102.3	10264.3	9662.6	9725.8	10441.3	10863.5
42.5°	18983.9	18915.7	17770.4	16587.2	15929.9	13922.6	11568.9	10539.9	10527.3	11083.4	11326.2
45°	21117.7	21062.1	20030.6	18571.9	18046.0	15995.7	13255.1	11847.0	11753.4	12102.3	12180.7
47.5°	22273.1	22275.6	21681.5	20490.7	20478.1	18630.0	15421.8	13738.0	13576.2	13740.5	13657.1
50°	21868.6	21921.7	21858.5	21479.2	22697.8	22083.5	18250.8	16374.9	16048.8	16210.6	15889.5
52.5°	19911.8	19980.0	20354.2	20935.7	23630.7	26257.5	22407.1	19651.4	19272.2	19214.0	18857.5
55°	16443.1	16526.6	17290.1	18870.2	22854.6	29061.2	28965.1	23827.9	23223.7	22675.1	22523.4
57.5°	11333.7	11472.8	12701.5	15047.6	20344.1	29908.1	36774.6	29781.7	28553.0	26636.7	26672.1
60°	6388.7	6550.5	7999.1	10130.3	15277.7	28987.9	42715.8	38799.7	36205.8	31275.9	31538.8
62.5°	4062.8	4237.2	5336.9	7038.4	9167.1	24032.7	45150.4	51336.8	48042.6	36994.5	37252.4
65°	3289.1	3365.0	3883.3	5809.7	6656.6	14478.8	43302.3	61664.3	60435.6	44252.9	43049.5
67.5°	3210.8	3236.0	3504.0	4876.8	6383.6	8138.1	34539.7	63595.8	64958.5	51030.9	45463.9
70°	3172.8	3261.3	3949.0	4654.3	6113.1	6864.0	20756.2	58301.9	60453.3	52803.1	42250.6
72.5°	1539.6	1534.6	1987.1	4209.4	6886.7	7119.3	10663.8	47172.9	49332.0	45747.0	34719.2
75°	1241.3	1135.1	1084.6	1542.2	6621.2	7351.9	6795.7	32459.0	34021.4	30671.6	21342.7
77.5°	1178.1	1051.7	963.2	965.8	2798.7	7796.8	5756.6	17965.1	18420.2	13854.3	5847.6
80°	975.9	859.6	796.4	897.5	1355.1	7425.2	6224.3	8130.6	7460.6	3402.9	1946.7
82.5°	677.5	616.9	599.2	753.4	1084.6	5291.4	7238.1	4368.7	3663.3	1704.0	1200.9
85°	432.3	369.1	409.6	548.6	844.4	2442.2	7455.5	3405.4	2707.7	1082.1	677.5
87.5°	199.7	161.8	202.3	303.4	551.1	841.9	7094.0	3825.1	2788.6	571.4	427.3
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°	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2	11058.2
2.5°	11063.2	11015.2	10977.3	10906.5	10828.1	10752.3	10684.0	10598.0	10572.8	10550.0	10585.4
5°	11098.6	11050.6	10911.5	10694.1	10453.9	10228.9	10003.9	9811.8	9693.0	9627.2	9665.2
7.5°	11151.7	11083.4	10795.2	10395.8	9963.5	9569.1	9162.0	8835.9	8595.7	8482.0	8514.8
10°	11199.7	11068.3	10598.0	9998.9	9366.8	8780.3	8138.1	7607.2	7212.8	7005.5	7056.1
12.5°	11220.0	11010.1	10322.5	9503.3	8636.2	7776.6	6831.1	6037.2	5470.9	5263.6	5220.6
15°	11240.2	10944.4	10019.1	8939.6	7753.9	6537.8	5213.1	4262.5	3792.2	3688.6	3665.8
17.5°	11245.3	10830.6	9675.3	8327.8	6719.8	5063.9	3564.7	2960.5	2963.0	3129.9	3150.1
20°	11192.2	10661.2	9258.1	7566.8	5481.0	3501.5	2447.3	2343.6	2725.4	3142.5	3193.1
22.5°	11070.8	10436.2	8785.4	6679.4	4062.8	2305.7	1893.6	2007.4	2500.3	3011.0	3069.2
25°	10916.6	10163.2	8226.6	5650.4	2690.0	1648.4	1587.7	1726.7	2060.4	2401.8	2434.6
27.5°	10706.8	9839.6	7599.6	4472.3	1747.0	1357.6	1398.1	1491.6	1628.1	1779.8	1795.0
30°	10436.2	9452.8	6929.7	3261.3	1319.7	1221.1	1279.2	1329.8	1388.0	1473.9	1481.5
32.5°	10125.3	9081.1	6242.0	2252.6	1170.5	1150.3	1195.8	1221.1	1266.6	1319.7	1324.8
35°	9864.9	8727.2	5529.1	1592.7	1107.3	1097.2	1127.6	1137.7	1180.7	1238.8	1243.9
37.5°	9715.7	8439.0	4793.4	1284.3	1064.4	1049.2	1066.9	1066.9	1127.6	1213.5	1226.2
40°	9725.8	8279.7	4057.7	1160.4	1029.0	1008.7	1011.3	1011.3	1089.6	1183.2	1190.8
42.5°	10001.4	8320.2	3405.4	1112.4	1001.2	978.4	965.8	973.3	1039.1	1099.7	1104.8
45°	10648.6	8605.9	2793.6	1082.1	973.3	965.8	937.9	935.4	960.7	988.5	988.5
47.5°	11710.4	9169.6	2379.0	1061.8	950.6	948.1	915.2	882.3	879.8	889.9	889.9
50°	13437.2	10140.4	2100.9	1039.1	935.4	915.2	877.3	826.7	809.0	816.6	816.6
52.5°	16026.0	11872.2	1994.7	1008.7	902.6	869.7	826.7	776.1	761.0	763.5	763.5
55°	19421.3	14531.9	1979.5	973.3	867.2	814.1	778.7	740.8	723.1	728.1	728.1
57.5°	23570.0	18210.3	2250.1	917.7	819.1	758.4	738.2	712.9	700.3	707.9	705.4
60°	28613.7	23023.9	3337.2	859.6	771.1	707.9	707.9	687.7	677.5	685.1	682.6
62.5°	34423.4	28553.0	4692.3	816.6	720.5	667.4	677.5	667.4	657.3	662.4	659.8
65°	39575.8	32155.7	4393.9	783.7	670.0	629.5	647.2	642.2	634.6	639.6	637.1
67.5°	39725.0	30820.8	2467.5	748.3	621.9	591.6	616.9	614.3	609.3	614.3	611.8
70°	35452.4	26024.9	1390.5	682.6	571.4	546.1	581.5	578.9	573.9	584.0	581.5
72.5°	28403.9	18885.3	1016.3	601.7	520.8	498.0	538.5	536.0	536.0	551.1	543.6
75°	16344.5	9718.2	811.5	515.7	467.7	450.0	485.4	487.9	493.0	513.2	498.0
77.5°	4659.4	3028.7	662.4	437.4	402.0	394.4	429.8	434.8	437.4	460.1	439.9
80°	1731.8	1395.5	546.1	366.6	328.7	331.2	364.1	371.6	374.2	396.9	371.6
82.5°	1104.8	920.2	442.4	283.2	257.9	255.3	295.8	305.9	305.9	308.4	293.3
85°	644.7	551.1	333.7	204.8	182.0	174.4	219.9	237.6	230.1	225.0	214.9
87.5°	432.3	379.2	204.8	113.8	98.6	93.5	128.9	141.6	136.5	128.9	121.4
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)