

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: P192708

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 47231.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 419
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



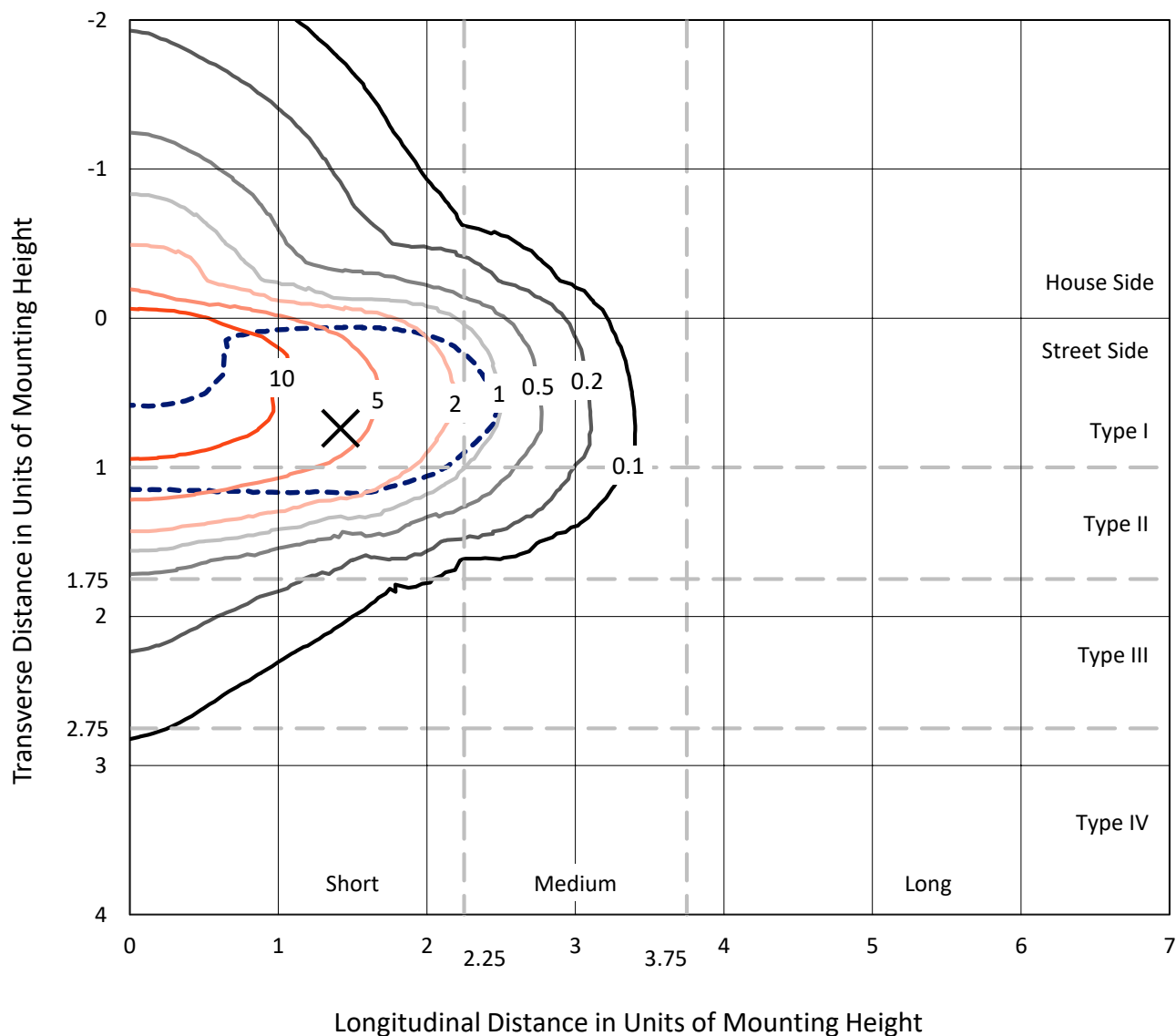
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

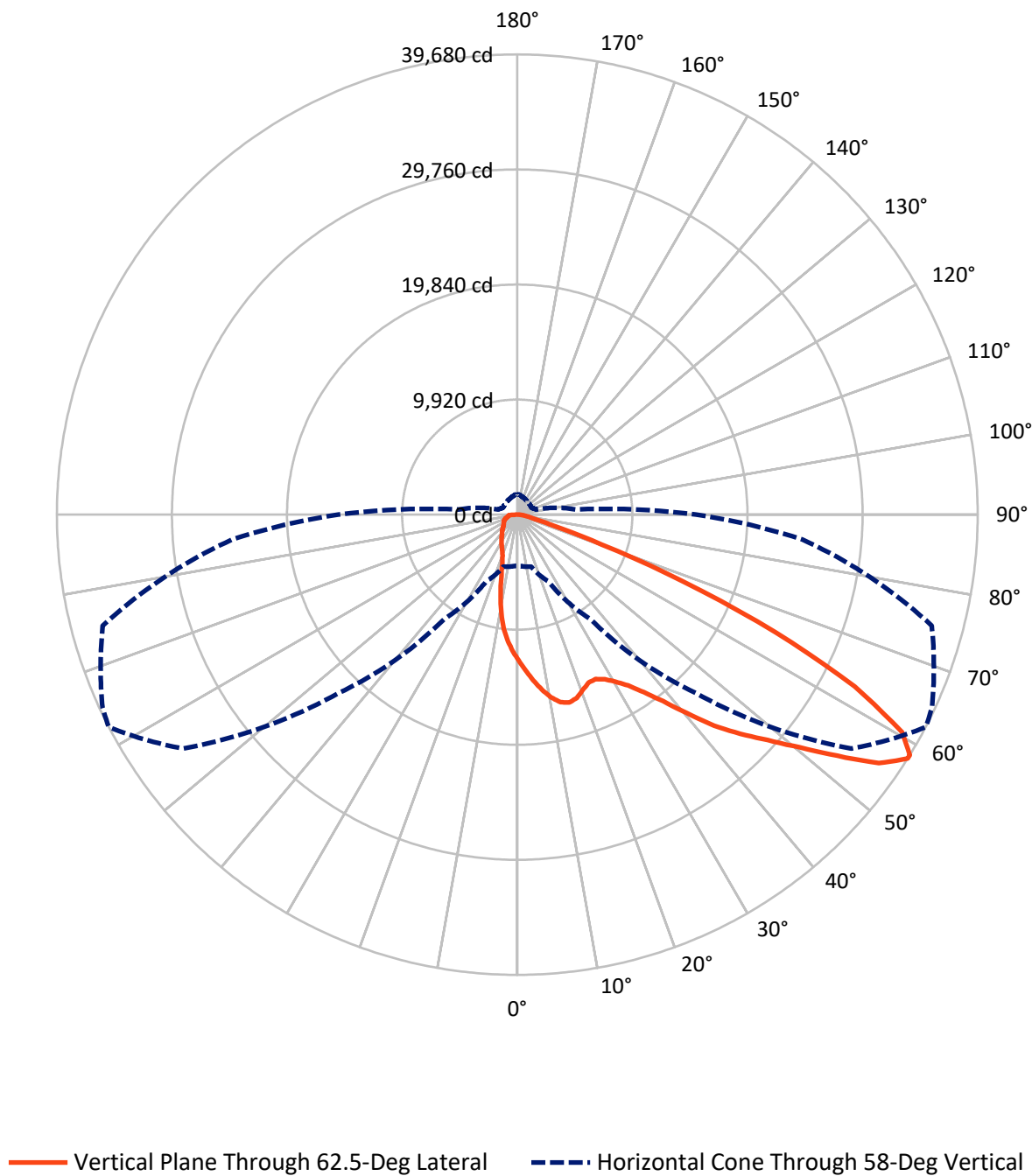


Based on 30 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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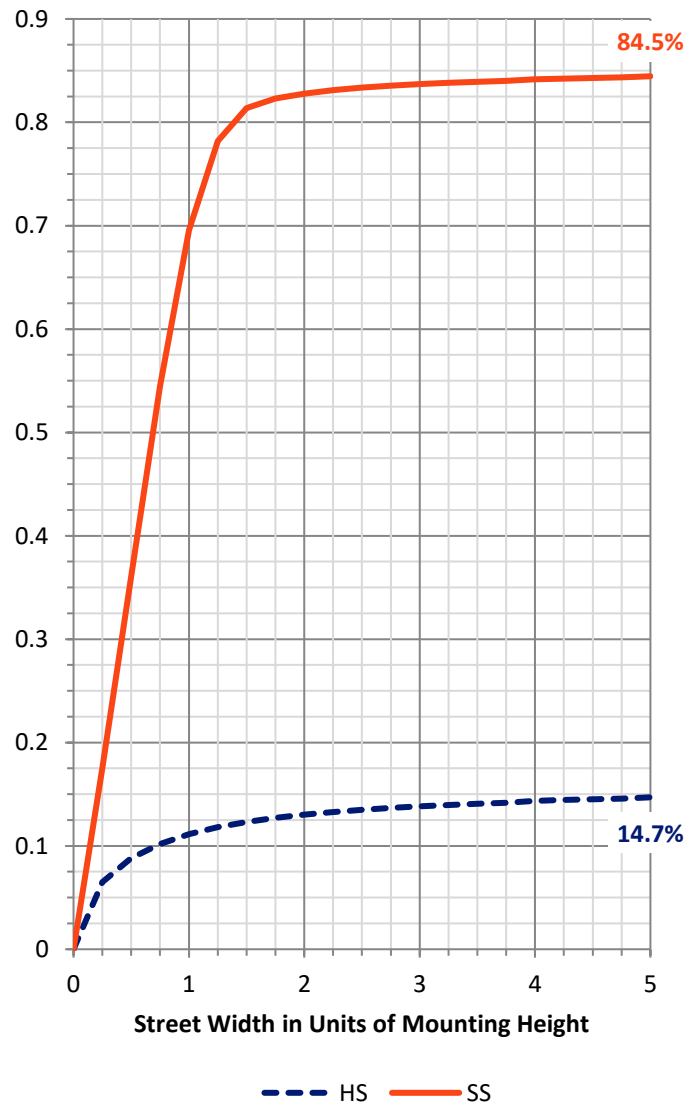
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7203.0	0.0	7203.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	40028.7	0.0	40028.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	47231.7	0.0	47231.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.1	2.4
10°-20°	2868.2	6.1
20°-30°	4636.5	9.8
30°-40°	7360.4	15.6
40°-50°	10769.8	22.8
50°-60°	11264.3	23.8
60°-70°	6655.0	14.1
70°-80°	1874.7	4.0
80°-90°	680.6	1.4
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°	47231.7	100.0
0°-180°	47231.7	100.0

Coefficient of Utilization



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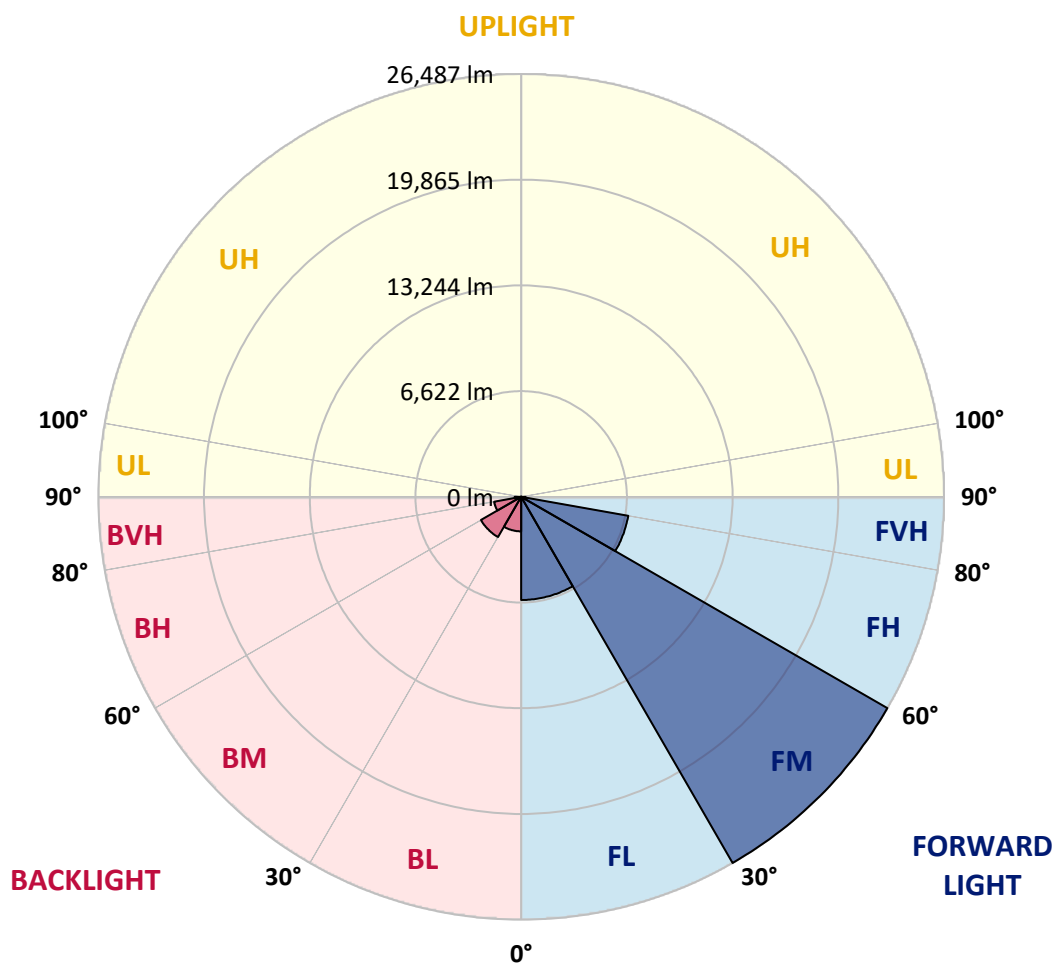
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6461.9	13.7			
FM	(30°-60°)	26487.3	56.1			
FH	(60°-80°)	6811.0	14.4			G3/7500
FVH	(80°-90°)	268.5	0.6			G3/500
BL	(0°-30°)	2164.9	4.6	B3/2500		
BM	(30°-60°)	2907.3	6.2	B3/5000		
BH	(60°-80°)	1718.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	412.1	0.9			G3/500
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°	62.5°	65°	75°	85°
0°	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1
2.5°	14336.6	14220.8	14147.4	14083.0	13998.6	13818.3	13575.9	13422.4	13344.6	13080.0	12766.3
5°	15742.2	15639.8	15564.2	15477.4	15326.3	15043.8	14652.3	14341.0	14187.6	13658.2	13031.1
7.5°	15412.9	15455.3	15586.5	15815.6	16011.3	15973.4	15624.3	15228.4	15026.0	14289.8	13338.0
10°	13429.0	13502.5	13729.4	14265.3	15132.7	16022.5	16293.8	16020.1	15815.6	14914.8	13653.7
12.5°	13031.1	13028.7	13046.5	13188.9	13704.9	14957.0	16316.0	16591.8	16469.4	15510.9	13976.2
15°	13193.4	13197.8	13184.5	13244.5	13404.7	13900.6	15635.4	16811.9	16898.7	16111.4	14309.8
17.5°	13620.4	13609.3	13558.1	13558.1	13615.9	13809.4	14834.7	16607.3	17007.7	16642.9	14603.4
20°	14336.6	14285.4	14149.7	14025.2	13962.9	14067.4	14505.6	16135.9	16818.6	17107.7	14845.8
22.5°	15204.0	15163.9	14943.7	14676.8	14461.1	14458.9	14674.6	15724.4	16491.7	17546.0	15050.5
25°	16324.9	16260.4	15933.4	15506.4	15128.4	14983.7	15043.8	15704.4	16313.7	18021.9	15232.8
27.5°	17641.5	17523.6	17136.7	16520.5	15964.5	15673.2	15586.5	16066.9	16476.1	18611.2	15486.4
30°	19238.5	19102.8	18606.9	17803.9	17018.8	16540.6	16356.0	16709.7	17014.4	19329.6	15893.4
32.5°	21055.6	20859.8	20285.9	19400.8	18368.7	17639.4	17339.1	17559.3	17801.7	20194.8	16402.8
35°	23566.5	23333.0	22503.5	21282.4	20117.0	19114.0	18633.5	18793.5	19029.3	21484.7	17138.9
37.5°	25279.1	25174.5	24623.0	23475.3	22207.6	21053.2	20310.4	20403.8	20537.4	23097.3	18081.9
40°	25263.5	25305.7	25316.9	25328.1	24465.2	23359.7	22561.3	22463.3	22436.7	24867.6	19153.9
42.5°	23998.0	24171.5	24731.9	25868.4	26393.3	25886.2	25154.5	24872.1	24731.9	26953.8	20290.4
45°	22060.9	22154.3	23204.1	25423.6	27380.9	28388.4	27834.6	26945.0	26691.4	28871.0	21233.5
47.5°	21062.2	21164.5	21825.1	24244.8	27369.8	30410.1	30730.4	29035.6	28581.9	30539.0	22047.5
50°	18684.7	18898.1	19729.9	22194.3	26371.2	31339.7	33757.4	31526.5	30588.0	32162.6	22863.7
52.5°	14318.8	14648.0	15579.9	18822.5	23837.8	30879.4	36179.3	34546.9	33221.4	33844.1	23564.3
55°	9032.0	9276.6	10059.6	13293.5	19069.4	28484.0	37098.0	37814.1	36635.2	35436.6	24171.5
57.5°	4910.7	5019.8	5313.4	7339.5	12403.7	23188.4	35759.0	39673.4	39184.2	36788.8	24629.7
58°	4394.9	4468.2	4650.6	6361.0	11000.4	21740.5	35165.2	39680.1	39435.5	36986.8	24665.3
60°	3260.6	3222.7	3060.4	3629.7	6122.9	15019.4	31575.5	38092.1	38810.5	37229.2	24491.8
62.5°	2864.7	2773.4	2442.1	2404.2	2978.1	6919.2	24160.4	32629.7	34326.7	35845.8	23437.5
65°	2691.2	2593.3	2166.3	2028.4	2148.5	2926.9	14232.0	24471.8	26600.3	31651.1	20741.9
67.5°	2562.1	2435.4	1990.6	1801.4	1810.4	1935.0	5704.9	15412.9	17808.3	24031.3	16133.7
70°	2437.6	2299.7	1841.6	1623.6	1572.5	1530.1	2268.5	7715.4	9888.3	15179.5	10286.4
72.5°	2304.2	2168.5	1710.4	1483.5	1383.4	1243.3	1481.2	3156.0	4408.2	7181.6	4666.1
75°	2110.7	1988.3	1579.2	1358.9	1216.6	1029.8	1118.7	1648.0	1977.3	2860.2	2248.5
77.5°	1872.7	1772.6	1432.3	1256.6	1078.7	836.3	860.8	1143.2	1267.7	1636.9	1336.7
80°	1345.5	1381.1	1274.4	1129.8	960.8	678.4	660.6	834.0	900.8	1051.9	869.6
82.5°	945.2	965.3	1054.3	923.0	794.0	533.7	487.1	587.2	627.1	691.7	469.3
85°	651.6	629.5	722.9	642.8	573.8	355.8	333.6	398.1	422.7	429.3	242.4
87.5°	391.4	391.4	418.1	344.7	309.2	184.6	180.2	226.8	242.4	231.3	133.4
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°	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1	12546.1
2.5°	12579.4	12421.5	12085.7	11816.6	11476.4	11122.7	10924.8	10713.5	10568.8	10464.5	10631.2
5°	12675.1	12352.7	11658.7	11000.4	10273.1	9516.9	8943.1	8409.3	8037.8	7806.6	8024.5
7.5°	12826.4	12330.4	11225.0	10099.6	8794.1	7535.3	6409.8	5704.9	5293.4	5090.9	5217.7
10°	12999.8	12294.8	10715.7	8878.6	7010.4	5424.6	4583.9	4299.2	4205.7	4167.9	4185.7
12.5°	13144.4	12219.2	10090.7	7401.8	5264.4	4283.6	4041.2	4034.5	4054.5	4059.0	4065.6
15°	13246.7	12108.0	9163.2	5862.8	4210.2	3903.3	3889.9	3929.9	3967.7	3983.4	3992.3
17.5°	13315.7	11878.8	8115.8	4635.0	3772.0	3718.6	3749.8	3801.0	3841.0	3852.2	3861.0
20°	13309.0	11543.0	6868.0	3865.5	3534.1	3534.1	3587.4	3627.5	3629.7	3616.4	3623.0
22.5°	13240.0	11082.7	5658.1	3456.2	3322.8	3360.6	3414.1	3376.2	3220.5	3118.2	3124.9
25°	13124.4	10533.3	4621.6	3196.1	3127.1	3193.7	3178.3	2893.5	2671.2	2571.1	2571.1
27.5°	13022.1	9883.9	3825.5	2969.1	2931.3	3013.7	2737.8	2479.8	2386.4	2339.8	2324.2
30°	12948.7	9183.4	3293.8	2751.2	2746.8	2686.6	2375.3	2304.2	2288.6	2250.7	2237.4
32.5°	12966.5	8473.8	2953.6	2560.0	2575.5	2299.7	2201.9	2217.4	2204.1	2164.1	2146.3
35°	13113.3	7799.9	2731.2	2386.4	2339.8	2077.3	2099.5	2128.5	2124.0	2068.4	2050.6
37.5°	13375.7	7161.6	2584.4	2241.9	2041.7	1966.1	2001.7	2046.2	2035.1	1997.3	1983.9
40°	13651.5	6561.1	2464.4	2128.5	1866.0	1890.5	1921.7	1946.1	1957.2	1968.3	1959.4
42.5°	13920.6	5933.9	2317.5	2012.8	1792.6	1819.2	1832.6	1857.1	1917.2	1959.4	1957.2
45°	14080.8	5344.5	2166.3	1848.2	1734.8	1750.4	1741.5	1790.4	1863.8	1932.7	1935.0
47.5°	14258.7	4886.3	2046.2	1697.1	1679.2	1690.4	1663.6	1712.5	1779.3	1863.8	1872.7
50°	14474.4	4612.8	1950.5	1576.9	1603.6	1603.6	1597.0	1641.4	1734.8	1832.6	1850.5
52.5°	14719.1	4559.4	1870.5	1490.2	1528.0	1525.7	1532.4	1599.1	1701.3	1797.1	1812.6
55°	15017.1	4703.9	1783.7	1425.7	1454.6	1463.4	1485.7	1561.4	1648.0	1757.0	1763.7
57.5°	15364.0	4997.5	1714.9	1374.5	1387.8	1416.8	1452.4	1521.3	1614.8	1734.8	1741.5
58°	15422.0	5059.8	1703.7	1370.0	1374.5	1407.8	1447.9	1514.7	1608.0	1739.3	1746.0
60°	15424.1	5266.7	1679.2	1350.0	1323.3	1379.0	1423.4	1490.2	1597.0	1754.8	1770.3
62.5°	14877.0	5264.4	1661.4	1321.2	1269.9	1338.9	1390.1	1467.9	1585.8	1792.6	1823.7
65°	13099.9	4784.0	1576.9	1276.5	1227.7	1303.4	1361.2	1452.4	1616.9	1957.2	1977.3
67.5°	10246.5	3921.1	1419.0	1214.3	1172.2	1267.7	1343.4	1450.1	1650.3	1995.0	2008.4
70°	6774.6	2933.6	1245.4	1143.2	1114.2	1225.5	1352.3	1525.7	1612.4	1915.0	1879.4
72.5°	3516.3	2059.5	1105.3	1054.3	1047.6	1187.6	1481.2	1516.8	1574.7	1801.4	1757.0
75°	1846.1	1430.1	983.0	956.3	967.5	1178.8	1748.1	1476.7	1525.7	1723.7	1808.2
77.5°	1129.8	1154.4	878.6	867.4	889.6	1152.0	1746.0	1425.7	1454.6	1585.8	1679.2
80°	756.2	936.4	798.4	800.7	816.2	1054.3	1568.0	1345.5	1367.8	1499.0	1594.6
82.5°	478.2	553.8	725.1	762.8	742.9	869.6	1332.2	1225.5	1256.6	1714.9	1812.6
85°	242.4	347.0	629.5	734.0	669.4	609.4	1080.9	1074.2	1089.9	1236.6	1292.2
87.5°	111.2	191.3	491.5	640.6	504.9	380.3	785.1	796.3	858.4	878.6	878.6
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)