

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: P192727

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192727
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-09-LED-E1-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 57921.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 575
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



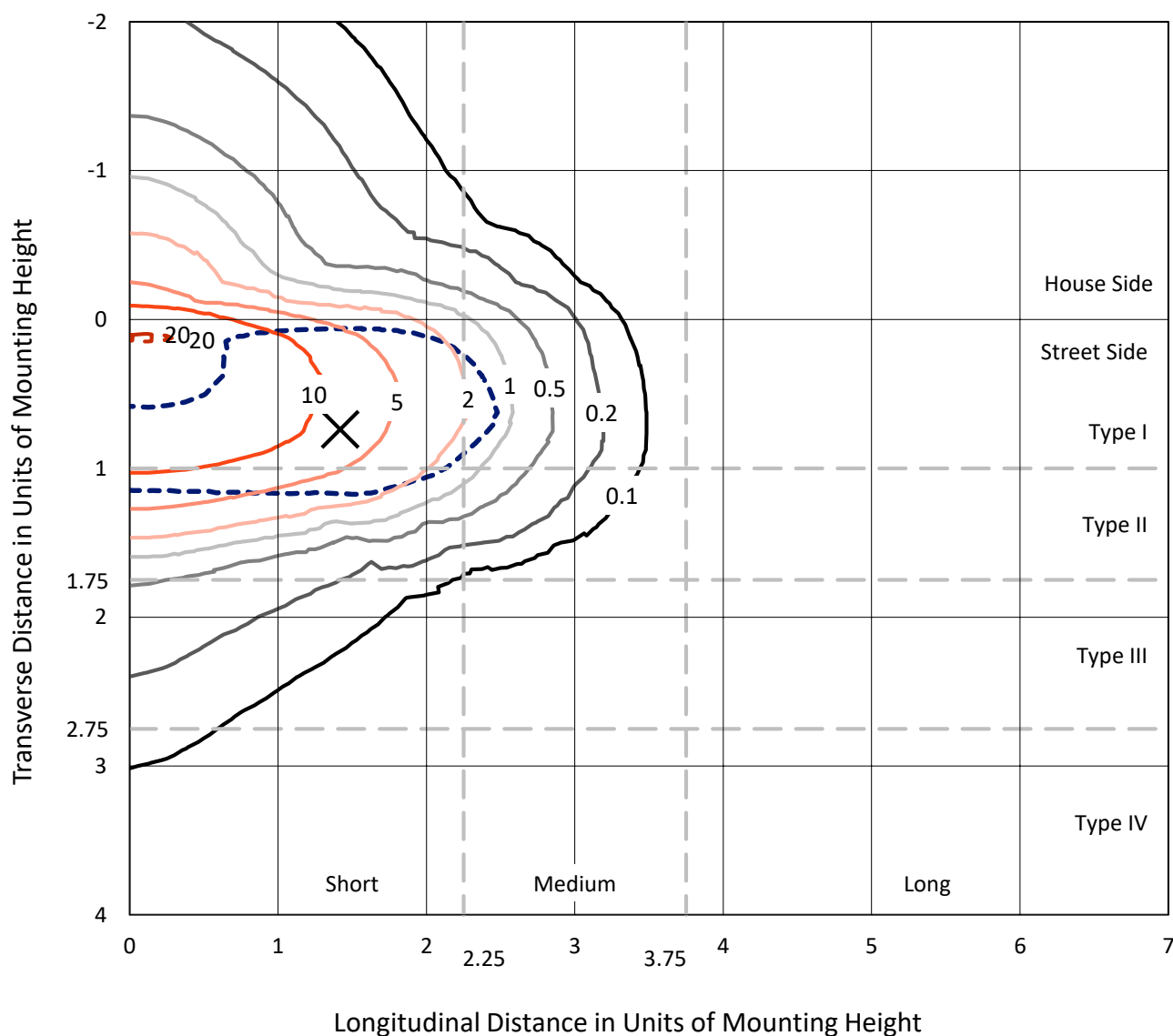
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

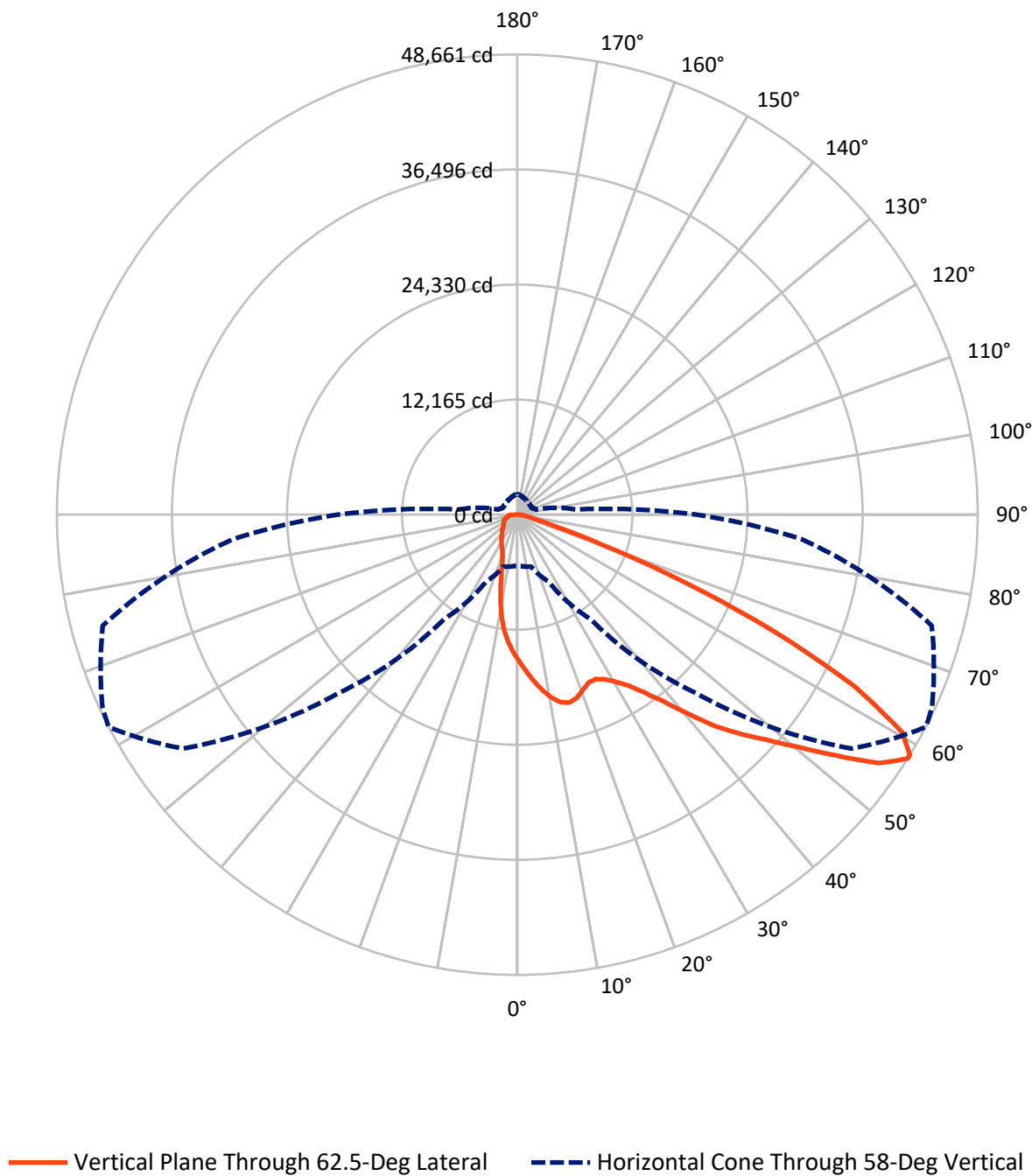


Based on 30 foot mounting height. Maximum calculated value = 20.8 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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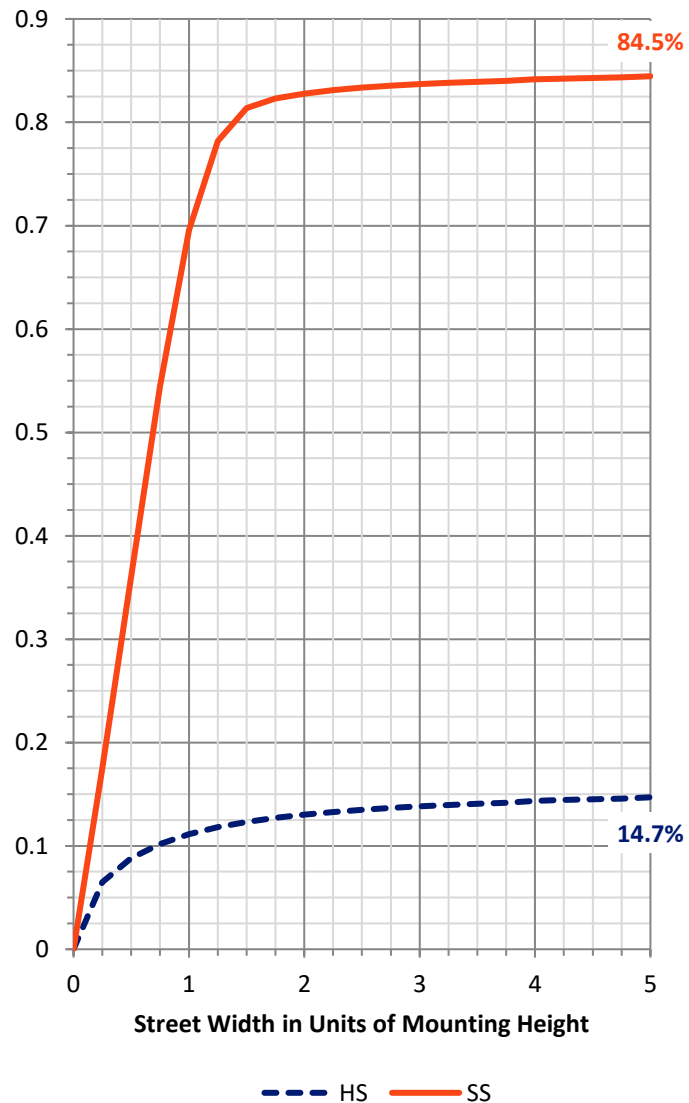
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8833.3	0.0	8833.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	49088.3	0.0	49088.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	57921.6	0.0	57921.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.0	2.4
10°-20°	3517.3	6.1
20°-30°	5685.9	9.8
30°-40°	9026.3	15.6
40°-50°	13207.4	22.8
50°-60°	13813.8	23.8
60°-70°	8161.2	14.1
70°-80°	2299.1	4.0
80°-90°	834.7	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°	57921.6	100.0
0°-180°	57921.6	100.0

Coefficient of Utilization



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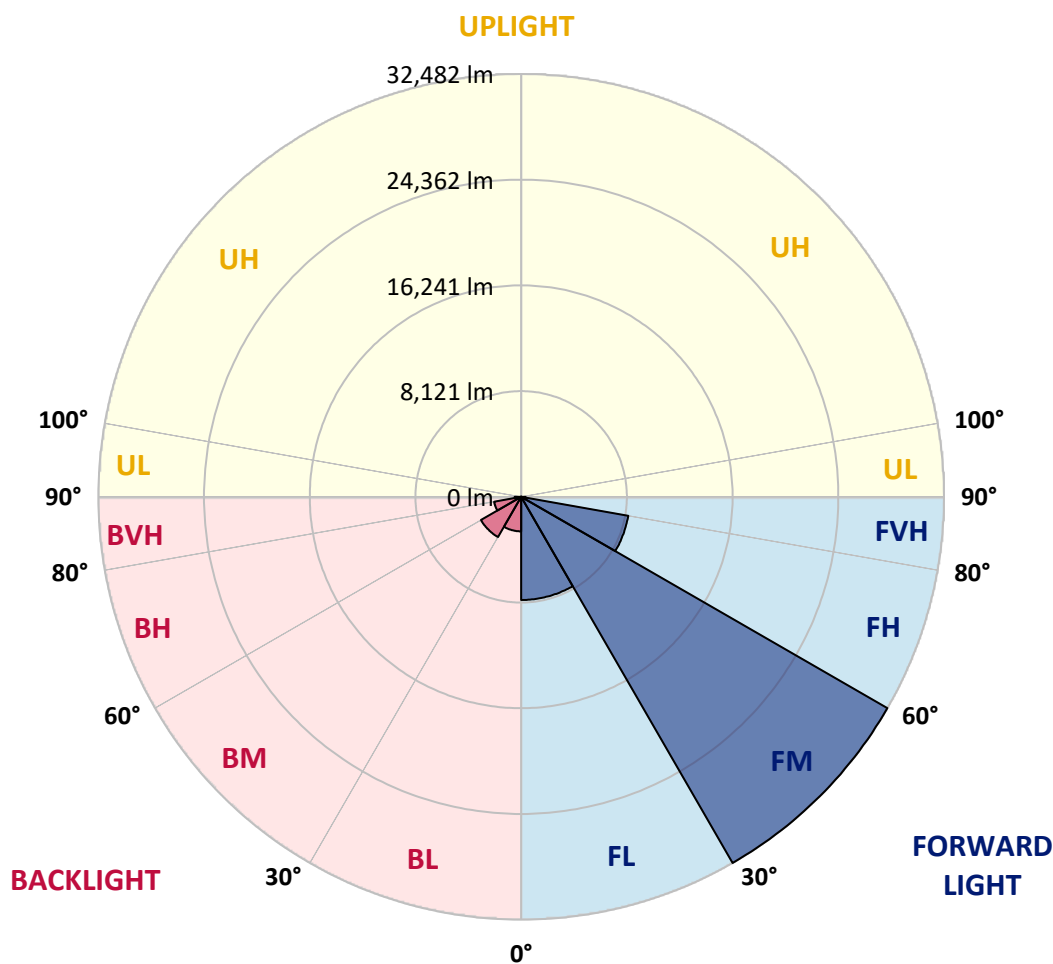
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7924.4	13.7			
FM	(30°-60°)	32482.1	56.1			
FH	(60°-80°)	8352.5	14.4			G4/12000
FVH	(80°-90°)	329.3	0.6			G3/500
BL	(0°-30°)	2654.9	4.6	B4/5000		
BM	(30°-60°)	3565.3	6.2	B3/5000		
BH	(60°-80°)	2107.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	505.4	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7
2.5°	17581.4	17439.5	17349.5	17270.4	17166.7	16945.8	16648.5	16460.4	16364.9	16040.3	15655.8
5°	19305.1	19179.6	19086.8	18980.5	18795.0	18448.7	17968.7	17586.8	17398.6	16749.5	15980.3
7.5°	18901.5	18953.2	19114.2	19395.0	19635.1	19588.8	19160.6	18675.0	18426.8	17524.1	16356.6
10°	16468.5	16558.5	16836.8	17494.0	18557.8	19648.7	19981.5	19646.0	19395.0	18290.4	16744.0
12.5°	15980.3	15977.5	15999.4	16173.9	16806.7	18342.3	20008.7	20347.1	20197.0	19021.4	17139.5
15°	16179.4	16184.8	16168.5	16242.2	16438.5	17046.7	19174.1	20617.0	20723.4	19757.8	17548.5
17.5°	16703.1	16689.5	16626.7	16626.7	16697.6	16934.8	18192.3	20366.0	20857.0	20409.7	17908.5
20°	17581.4	17518.6	17352.2	17199.5	17123.1	17251.3	17788.6	19787.8	20625.2	20979.8	18205.9
22.5°	18645.0	18595.9	18325.9	17998.6	17734.1	17731.3	17995.9	19283.2	20224.2	21517.1	18456.8
25°	20019.7	19940.6	19539.6	19015.9	18552.3	18375.0	18448.7	19258.7	20006.0	22100.8	18680.5
27.5°	21634.3	21489.7	21015.3	20259.7	19577.8	19220.6	19114.2	19703.3	20205.1	22823.5	18991.5
30°	23592.7	23426.3	22818.0	21833.5	20870.7	20284.2	20057.9	20491.6	20865.2	23704.5	19490.5
32.5°	25821.0	25581.0	24877.4	23791.8	22526.2	21631.5	21263.4	21533.5	21830.8	24765.5	20115.1
35°	28900.3	28613.9	27596.6	26099.2	24669.9	23439.9	22850.8	23047.1	23336.2	26347.5	21017.9
37.5°	31000.4	30872.3	30195.9	28788.5	27233.9	25818.3	24907.3	25021.9	25185.6	28324.8	22174.3
40°	30981.4	31033.2	31046.9	31060.5	30002.3	28646.6	27667.5	27547.5	27514.8	30495.9	23489.0
42.5°	29429.5	29642.2	30329.5	31723.3	32367.0	31745.1	30847.7	30501.4	30329.5	33054.3	24882.8
45°	27053.8	27168.4	28455.8	31177.7	33578.0	34813.5	34134.3	33043.4	32732.4	35405.4	26039.2
47.5°	25829.2	25954.6	26764.7	29732.1	33564.3	37292.8	37685.6	35607.1	35050.8	37451.1	27037.6
50°	22913.6	23175.4	24195.5	27217.5	32339.6	38432.9	41397.7	38661.9	37511.0	39442.0	28038.4
52.5°	17559.5	17963.2	19105.9	23082.6	29233.1	37868.2	44367.9	42366.0	40740.4	41504.0	28897.7
55°	11076.2	11376.3	12336.4	16302.1	23385.5	34930.8	45494.4	46372.6	44927.0	43456.9	29642.2
57.5°	6022.3	6155.8	6515.9	9000.7	15211.2	28436.7	43852.4	48652.7	48052.7	45115.3	30204.0
58°	5389.5	5479.5	5703.2	7800.6	13490.1	26661.1	43124.1	48660.9	48360.9	45357.9	30247.8
60°	3998.5	3952.1	3753.0	4451.2	7508.8	18418.6	38722.0	46713.5	47594.4	45655.2	30035.0
62.5°	3513.0	3401.1	2994.8	2948.4	3652.1	8485.2	29628.6	40014.8	42095.9	43958.8	28742.2
65°	3300.2	3180.2	2656.5	2487.5	2634.8	3589.3	17453.1	30010.5	32620.7	38814.7	25436.4
67.5°	3142.1	2986.6	2441.1	2209.2	2220.1	2372.9	6996.0	18901.5	21839.0	29470.4	19785.1
70°	2989.4	2820.2	2258.4	1991.0	1928.3	1876.5	2782.1	9461.7	12126.3	18615.0	12614.5
72.5°	2825.7	2659.3	2097.4	1819.2	1696.5	1524.7	1816.6	3870.3	5405.8	8807.1	5722.2
75°	2588.4	2438.3	1936.5	1666.5	1491.9	1262.8	1372.0	2021.1	2424.7	3507.6	2757.4
77.5°	2296.5	2173.8	1756.5	1541.0	1322.8	1025.5	1055.6	1401.9	1554.6	2007.4	1639.2
80°	1650.2	1693.7	1562.9	1385.5	1178.3	831.9	810.0	1022.7	1104.6	1290.2	1066.5
82.5°	1159.1	1183.8	1292.9	1131.9	973.7	654.6	597.3	720.0	769.1	848.3	575.5
85°	799.1	771.9	886.4	788.2	703.7	436.4	409.1	488.2	518.2	526.4	297.3
87.5°	480.0	480.0	512.8	422.8	379.1	226.3	220.9	278.2	297.3	283.6	163.7
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°	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7	15385.7
2.5°	15426.7	15232.9	14821.1	14491.0	14073.8	13640.2	13397.4	13138.2	12961.0	12832.8	13037.4
5°	15543.9	15148.4	14297.4	13490.1	12598.2	11670.8	10967.2	10312.6	9857.2	9573.4	9840.8
7.5°	15729.4	15121.2	13765.6	12385.5	10784.4	9240.7	7860.5	6996.0	6491.4	6243.2	6398.7
10°	15942.1	15077.4	13140.9	10888.1	8596.9	6652.4	5621.3	5272.2	5157.7	5111.2	5133.1
12.5°	16119.3	14984.8	12374.6	9077.0	6455.9	5253.0	4955.8	4947.7	4972.2	4977.7	4985.8
15°	16244.8	14848.4	11237.2	7189.6	5163.1	4786.7	4770.4	4819.4	4865.9	4884.9	4895.8
17.5°	16329.5	14567.4	9952.5	5684.1	4625.8	4560.4	4598.5	4661.2	4710.3	4724.1	4734.9
20°	16321.2	14155.6	8422.5	4740.3	4334.0	4334.0	4399.5	4448.5	4451.2	4434.9	4443.0
22.5°	16236.7	13591.0	6938.7	4238.5	4074.9	4121.3	4186.7	4140.3	3949.4	3824.0	3832.2
25°	16094.9	12917.2	5667.8	3919.3	3834.8	3916.6	3897.6	3548.4	3275.7	3153.0	3153.0
27.5°	15969.4	12120.9	4691.3	3641.2	3594.8	3695.7	3357.5	3041.1	2926.6	2869.2	2850.2
30°	15879.4	11261.8	4039.5	3373.9	3368.5	3294.8	2913.0	2825.7	2806.6	2760.2	2743.8
32.5°	15901.1	10391.6	3622.1	3139.3	3158.4	2820.2	2700.3	2719.3	2703.0	2653.8	2632.0
35°	16081.3	9565.2	3349.4	2926.6	2869.2	2547.5	2574.7	2610.2	2604.7	2536.6	2514.7
37.5°	16403.1	8782.5	3169.3	2749.3	2503.7	2411.2	2454.7	2509.2	2495.6	2449.3	2432.8
40°	16741.2	8046.1	3022.0	2610.2	2288.3	2318.4	2356.5	2386.5	2400.2	2413.9	2402.9
42.5°	17071.3	7276.8	2842.1	2468.3	2198.3	2231.1	2247.5	2277.4	2351.0	2402.9	2400.2
45°	17267.7	6554.1	2656.5	2266.6	2127.4	2146.5	2135.6	2195.6	2285.6	2370.2	2372.9
47.5°	17485.9	5992.3	2509.2	2081.1	2059.2	2072.8	2040.2	2100.2	2182.0	2285.6	2296.5
50°	17750.4	5656.8	2392.0	1933.8	1966.5	1966.5	1958.4	2012.9	2127.4	2247.5	2269.4
52.5°	18050.4	5591.4	2293.8	1827.4	1873.8	1871.1	1879.3	1961.1	2086.6	2203.8	2222.9
55°	18415.9	5768.6	2187.5	1748.3	1783.7	1794.7	1822.0	1914.7	2021.1	2154.7	2162.9
57.5°	18841.4	6128.7	2102.9	1685.6	1701.9	1737.4	1781.0	1865.6	1980.1	2127.4	2135.6
58°	18912.3	6205.1	2089.2	1680.1	1685.6	1726.6	1775.6	1857.4	1971.9	2132.8	2141.1
60°	18915.1	6458.7	2059.2	1655.6	1622.8	1691.0	1745.6	1827.4	1958.4	2152.0	2171.1
62.5°	18244.1	6455.9	2037.4	1620.1	1557.4	1641.9	1704.7	1800.1	1944.7	2198.3	2236.5
65°	16064.8	5866.7	1933.8	1565.5	1505.6	1598.4	1669.3	1781.0	1982.8	2400.2	2424.7
67.5°	12565.5	4808.5	1740.2	1489.2	1437.5	1554.6	1647.4	1778.3	2023.8	2446.6	2462.9
70°	8307.8	3597.6	1527.3	1401.9	1366.5	1502.9	1658.3	1871.1	1977.4	2348.3	2304.8
72.5°	4312.1	2525.6	1355.6	1292.9	1284.7	1456.4	1816.6	1860.1	1931.0	2209.2	2154.7
75°	2263.9	1753.7	1205.5	1172.8	1186.4	1445.6	2143.7	1811.1	1871.1	2113.8	2217.4
77.5°	1385.5	1415.6	1077.4	1063.7	1091.0	1412.8	2141.1	1748.3	1783.7	1944.7	2059.2
80°	927.4	1148.4	979.2	981.9	1001.1	1292.9	1922.9	1650.2	1677.3	1838.3	1955.6
82.5°	586.4	679.1	889.2	935.5	911.0	1066.5	1633.8	1502.9	1541.0	2102.9	2222.9
85°	297.3	425.4	771.9	900.1	821.0	747.4	1325.6	1317.3	1336.5	1516.5	1584.7
87.5°	136.3	234.6	602.8	785.5	619.2	466.4	962.8	976.4	1052.8	1077.4	1077.4
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)