

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: P192688

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51170.5 lumens
Efficiency: N/A
Efficacy: 80.0 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): 640
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



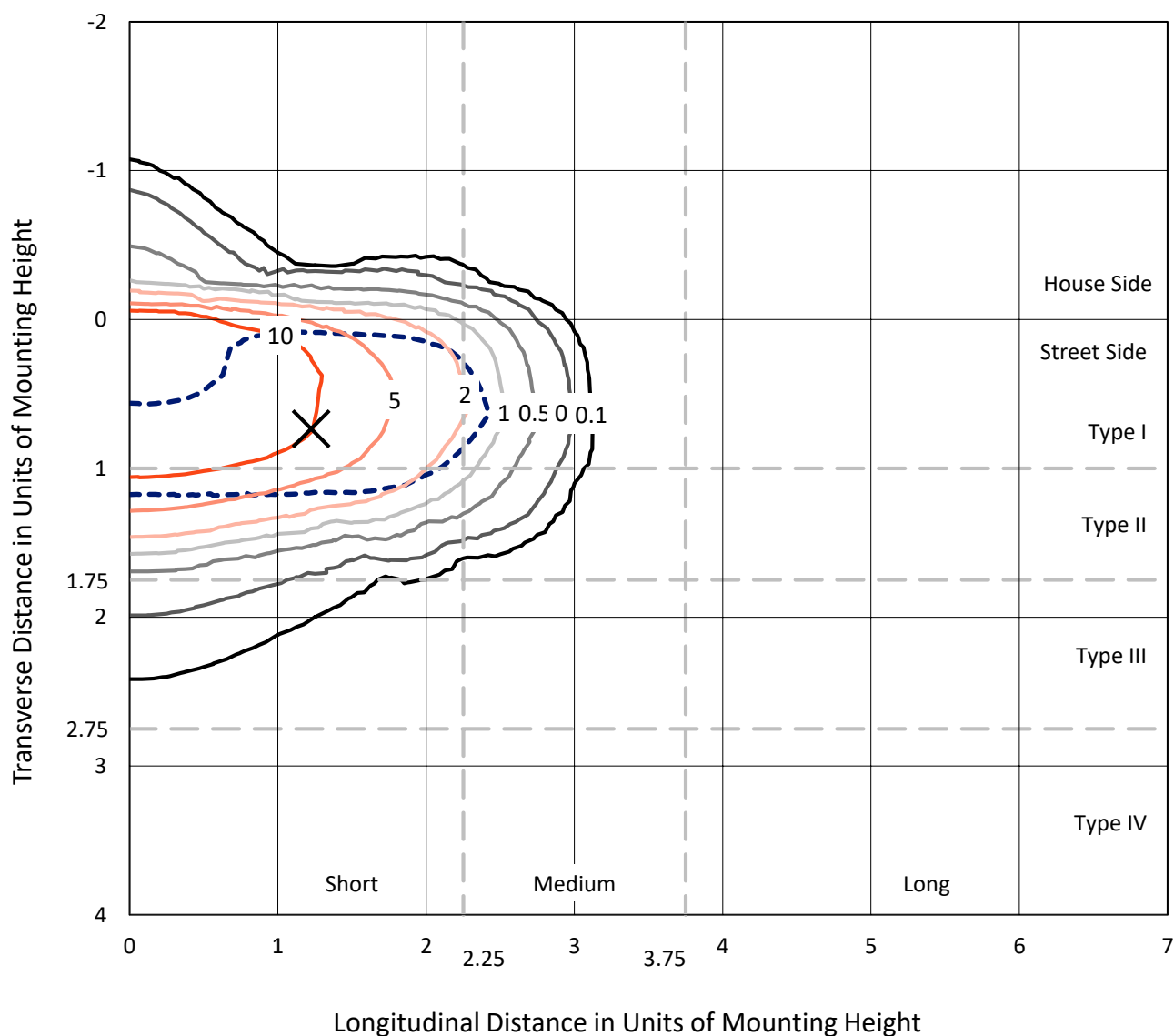
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

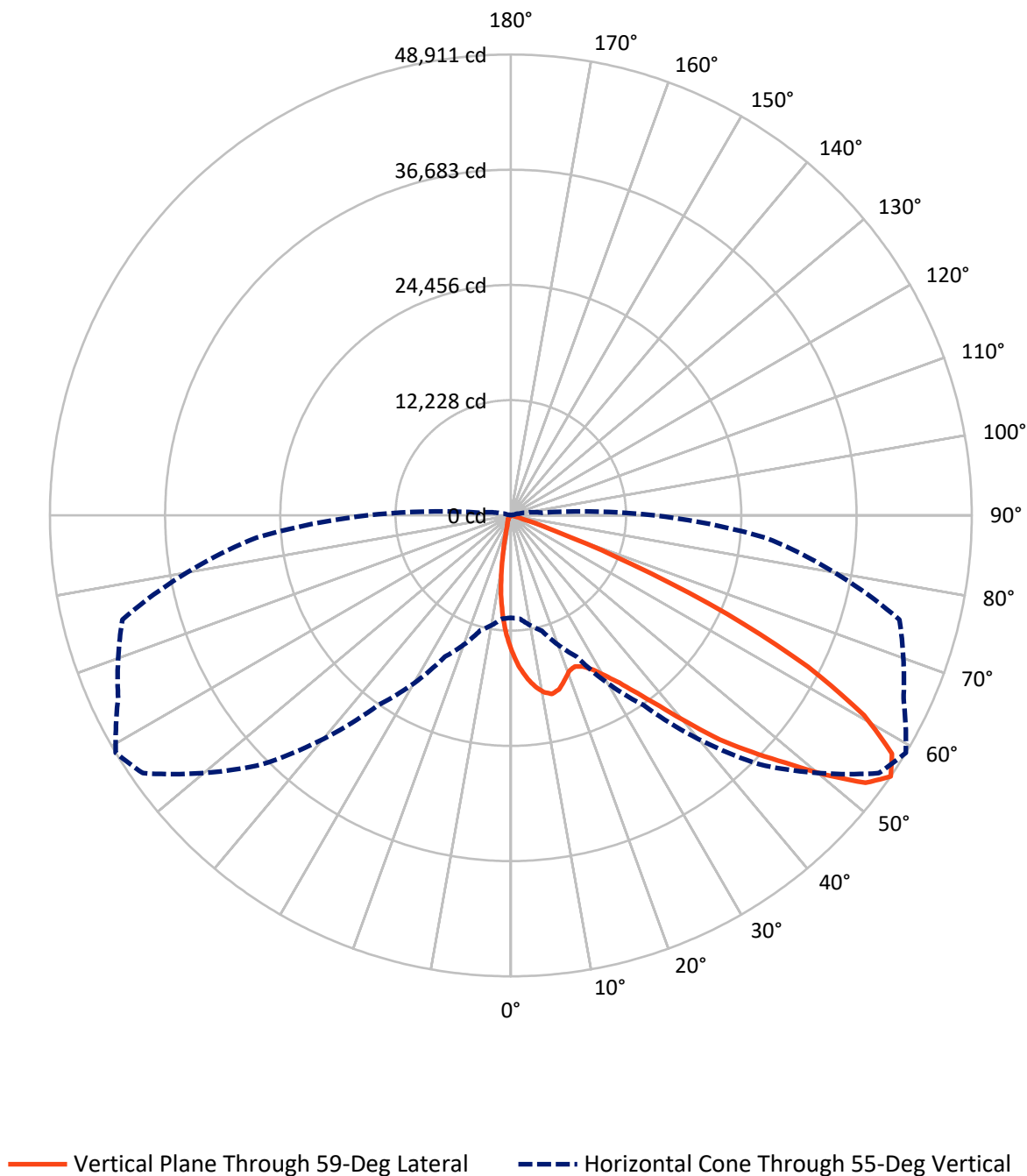


Based on 30 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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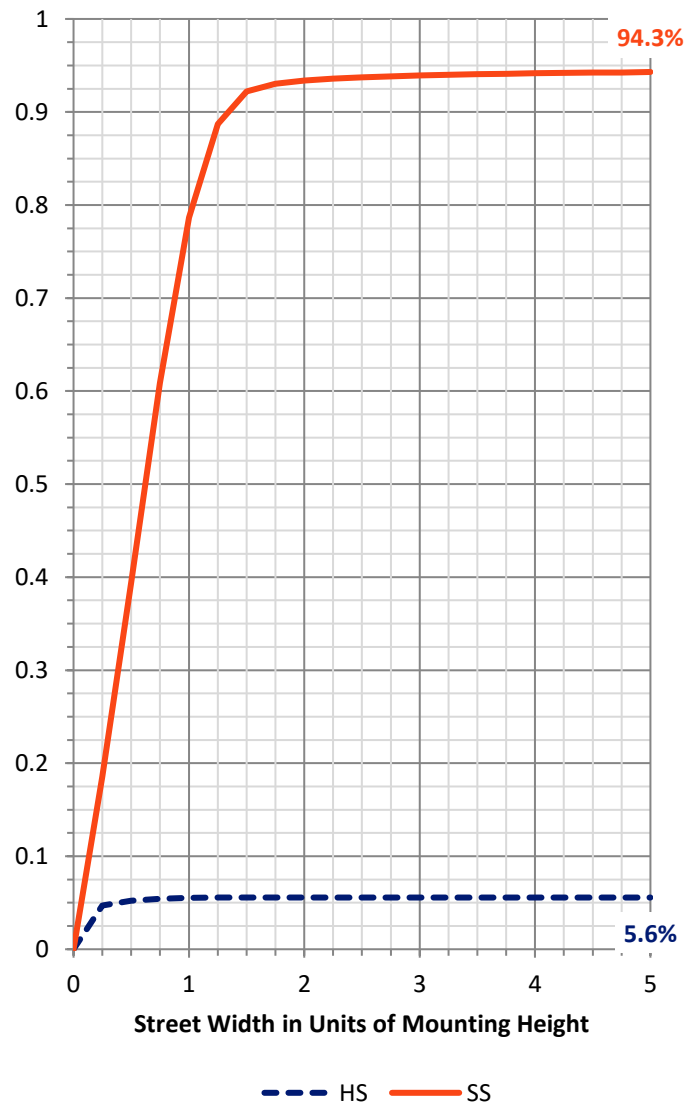
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.2	0.0	2858.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	48312.3	0.0	48312.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	51170.5	0.0	51170.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1206.5	2.4
10°-20°	2888.7	5.6
20°-30°	4915.5	9.6
30°-40°	8453.6	16.5
40°-50°	13051.4	25.5
50°-60°	13120.9	25.6
60°-70°	6728.5	13.1
70°-80°	729.2	1.4
80°-90°	76.2	0.1
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°	51170.5	100.0
0°-180°	51170.5	100.0

Coefficient of Utilization



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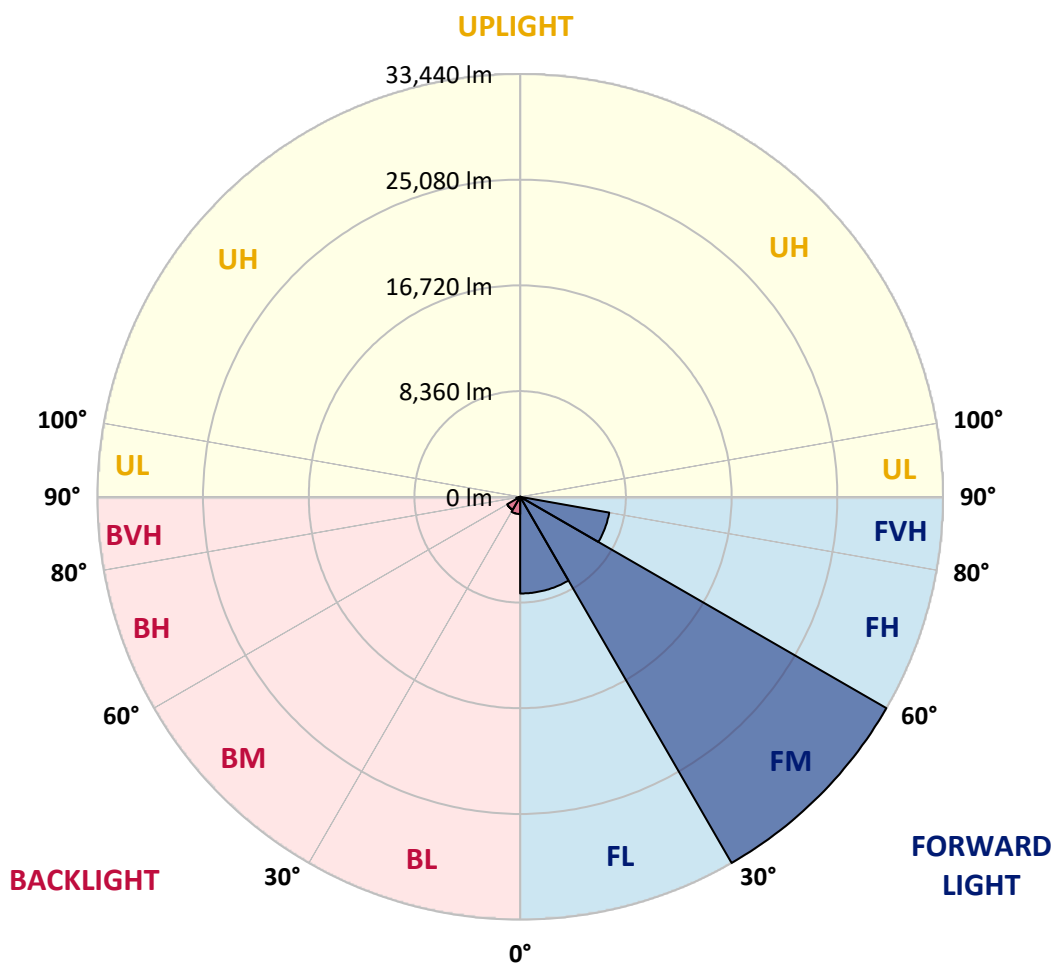
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7646.6	14.9			
FM	(30°-60°)	33439.7	65.3			
FH	(60°-80°)	7151.4	14.0			G3/7500
FVH	(80°-90°)	74.6	0.1			G1/100
BL	(0°-30°)	1364.2	2.7	B3/2500		
BM	(30°-60°)	1186.2	2.3	B2/2500		
BH	(60°-80°)	306.2	0.6	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
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°	59°	65°	75°	85°
0°	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3
2.5°	17043.6	16862.4	16808.0	16771.9	16605.8	16397.3	16113.4	15980.6	15708.9	15270.9	14733.5
5°	18604.7	18571.6	18450.8	18384.4	18206.2	17910.3	17457.3	17239.9	16808.0	16071.3	15108.0
7.5°	17922.4	18130.7	18296.8	18574.6	18924.9	18912.8	18532.3	18305.9	17822.7	16850.3	15524.6
10°	15286.0	15455.2	15727.0	16358.1	17644.5	18779.9	19226.9	19063.8	18677.4	17566.0	15926.2
12.5°	14769.6	14751.5	14799.9	14984.2	15657.5	17276.1	19109.1	19438.4	19359.7	18221.2	16306.7
15°	15044.5	15023.3	15017.3	15080.7	15243.9	15926.2	18224.3	19169.5	19776.5	18828.3	16630.0
17.5°	15814.5	15723.9	15675.7	15624.3	15576.0	15745.2	17161.4	18417.7	19839.9	19359.7	16898.6
20°	17134.1	16983.1	16805.0	16515.1	16243.3	16158.8	16714.5	17644.5	19613.4	19764.4	17073.8
22.5°	18792.0	18598.7	18290.8	17762.3	17209.7	16889.7	16934.8	17399.9	19275.2	20205.4	17155.4
25°	20655.3	20407.7	19996.9	19263.1	18450.8	17883.1	17587.1	17750.3	19121.1	20721.7	17249.0
27.5°	22651.3	22376.6	21839.0	20839.4	19918.4	19151.4	18547.5	18526.3	19383.9	21398.1	17399.9
30°	24629.2	24586.9	23886.4	22829.5	21609.6	20676.3	19806.6	19695.0	20117.7	22334.2	17698.9
32.5°	27268.5	26951.4	26093.9	25006.7	23599.5	22479.2	21449.4	21189.7	21244.1	23424.3	18160.8
35°	30596.3	30249.1	29041.1	27540.3	25967.0	24644.3	23505.9	23152.6	23019.8	25209.1	18940.0
37.5°	32746.4	32740.3	31982.4	30454.4	28766.4	27307.8	26069.7	25655.9	25387.3	27365.2	20148.0
40°	32803.8	32945.7	33045.4	33030.2	31828.5	30484.5	29385.4	28875.0	28250.0	30246.0	21709.2
42.5°	31043.3	31408.6	32287.4	33779.1	34491.8	33957.3	33030.2	32529.0	31598.9	33329.2	23611.6
45°	28663.6	28917.3	30454.4	33202.4	35935.3	37399.9	36693.2	35796.4	34570.2	36545.2	25317.8
47.5°	27597.7	27643.0	28636.6	31653.3	36044.0	40220.3	40649.2	39190.5	37270.0	39136.2	26652.4
50°	24411.8	24493.4	25864.3	28968.7	34769.7	41552.1	44623.1	43240.1	40214.3	41132.3	27138.7
52.5°	18399.5	18514.2	20253.6	24556.8	31266.7	40984.3	47467.8	47132.6	43439.4	42107.7	27165.9
55°	10856.1	11007.1	12667.9	16530.3	24593.0	37372.6	47679.2	48911.2	45985.0	42684.5	27123.6
57.5°	5070.1	5175.9	6127.2	8515.7	15295.1	29536.4	44496.3	47691.2	47389.2	42989.4	27422.6
60°	2693.7	2723.9	2953.4	3687.2	6912.3	18728.5	38284.7	43065.0	46108.8	43412.2	27787.9
62.5°	2059.5	2068.5	2056.5	2144.0	2904.9	8313.4	28938.4	35403.9	40954.0	43095.1	27383.3
65°	1784.6	1799.8	1715.3	1694.1	1863.2	2965.4	17191.5	25236.2	32181.7	38816.1	24626.3
67.5°	1600.4	1606.5	1503.9	1416.2	1446.5	1603.5	6782.4	13815.4	21301.5	28452.3	17849.9
70°	1473.7	1467.6	1355.9	1216.9	1177.7	1096.2	2156.1	5064.1	10179.6	14428.4	8301.3
72.5°	1304.5	1307.7	1253.2	1072.1	978.4	767.0	999.5	1476.6	3037.9	3931.7	1944.7
75°	1156.6	1141.4	1075.0	960.3	806.4	504.3	495.3	658.3	936.2	930.2	419.8
77.5°	836.5	821.4	842.5	788.2	619.1	326.1	247.6	317.1	380.4	368.4	117.8
80°	613.1	603.9	543.6	655.3	546.7	223.4	154.0	169.2	196.3	166.1	36.3
82.5°	419.8	416.8	383.5	362.4	311.1	135.9	96.5	105.7	126.8	93.6	18.1
85°	66.4	75.5	277.8	220.4	184.2	60.4	66.4	72.4	84.5	51.4	6.0
87.5°	0.0	0.0	129.8	114.7	36.3	24.1	39.3	42.3	42.3	27.2	0.0
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°	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3	14404.3
2.5°	14458.8	14156.7	13598.1	13021.3	12486.8	11849.6	11411.7	11082.6	10702.1	10599.4	10822.9
5°	14558.4	13987.6	12785.7	11478.1	10249.1	8887.1	7845.4	7021.0	6275.1	6021.4	6250.9
7.5°	14715.4	13866.7	11907.0	9753.9	7615.8	5489.9	4034.4	3077.2	2467.2	2285.9	2382.6
10°	14872.4	13691.6	10889.4	7712.5	4789.4	2672.5	1739.4	1389.1	1259.2	1232.1	1247.2
12.5°	15002.2	13456.2	9648.1	5483.9	2560.8	1431.4	1138.5	1081.1	1063.0	1063.0	1069.0
15°	15080.7	13099.7	8177.5	3487.9	1473.7	1081.1	993.5	975.3	975.3	978.4	984.4
17.5°	15071.7	12646.8	6568.0	2110.8	1102.2	957.2	906.0	890.8	887.8	893.8	896.9
20°	14960.0	12054.9	4952.4	1392.1	960.3	872.8	821.4	794.2	791.1	797.3	803.3
22.5°	14748.6	11324.1	3542.1	1072.1	866.7	791.1	727.7	703.6	703.6	709.6	715.6
25°	14491.9	10430.3	2421.8	908.9	782.1	703.6	643.2	622.1	628.1	643.2	646.3
27.5°	14171.8	9424.7	1645.8	779.1	679.5	616.0	570.8	555.6	570.8	591.8	597.8
30°	13897.0	8376.8	1174.6	673.4	576.8	531.4	504.3	504.3	525.4	564.7	573.7
32.5°	13685.6	7362.2	906.0	594.9	501.3	462.0	447.0	462.0	495.3	534.5	543.6
35°	13658.4	6525.7	767.0	531.4	447.0	407.6	401.6	428.9	462.0	492.2	498.2
37.5°	13866.7	5752.6	691.5	480.2	398.6	362.4	356.3	389.5	422.8	459.0	468.0
40°	14262.3	5145.7	637.2	431.8	359.4	320.1	308.0	332.1	377.5	425.8	437.9
42.5°	14775.7	4644.4	576.8	383.5	320.1	265.7	250.6	277.8	326.1	377.5	392.6
45°	15264.9	4212.6	510.4	329.2	268.8	205.3	199.3	235.6	259.7	311.1	323.1
47.5°	15533.7	3832.0	453.0	268.8	208.3	166.1	166.1	175.2	199.3	259.7	271.7
50°	15443.1	3527.1	392.6	199.3	145.0	126.8	126.8	123.8	160.1	208.3	217.4
52.5°	15261.9	3352.0	338.2	154.0	99.7	90.5	81.5	90.5	111.8	132.9	135.9
55°	15234.8	3321.7	283.8	123.8	69.5	60.4	45.4	45.4	45.4	42.3	36.3
57.5°	15446.1	3370.1	238.5	99.7	51.4	39.3	24.1	0.0	0.0	0.0	0.0
60°	15663.5	3421.5	205.3	69.5	36.3	21.1	3.1	0.0	0.0	0.0	0.0
62.5°	15301.2	3306.6	172.1	42.3	27.2	9.1	0.0	0.0	0.0	0.0	0.0
65°	13441.0	2814.4	135.9	30.1	18.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9560.6	1884.2	90.5	18.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	4363.6	788.2	57.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	933.1	244.6	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	190.2	178.2	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.4	280.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.3	202.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)