

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: P192694

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192694
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-06-LED-E1-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23273.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 193
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

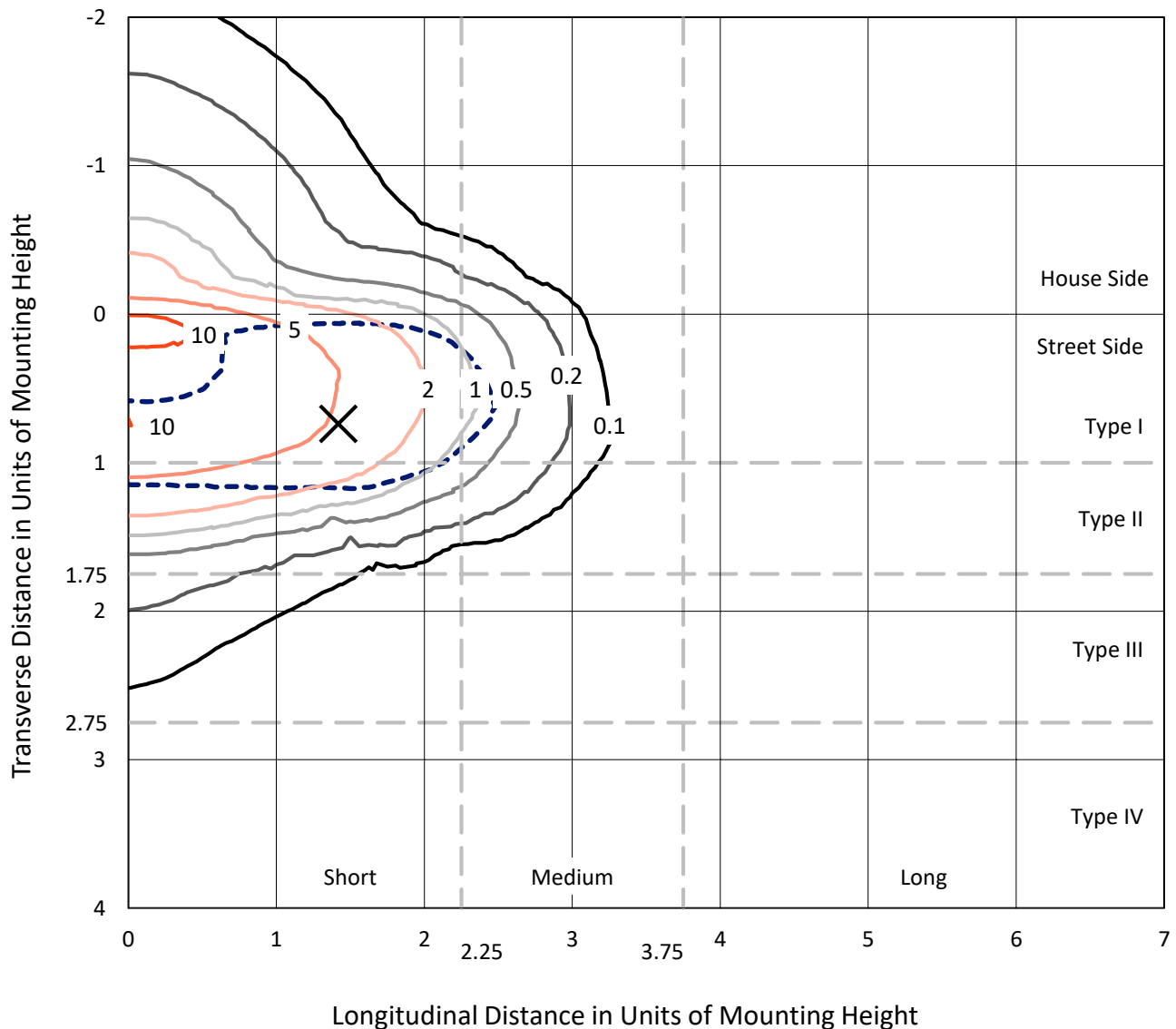


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

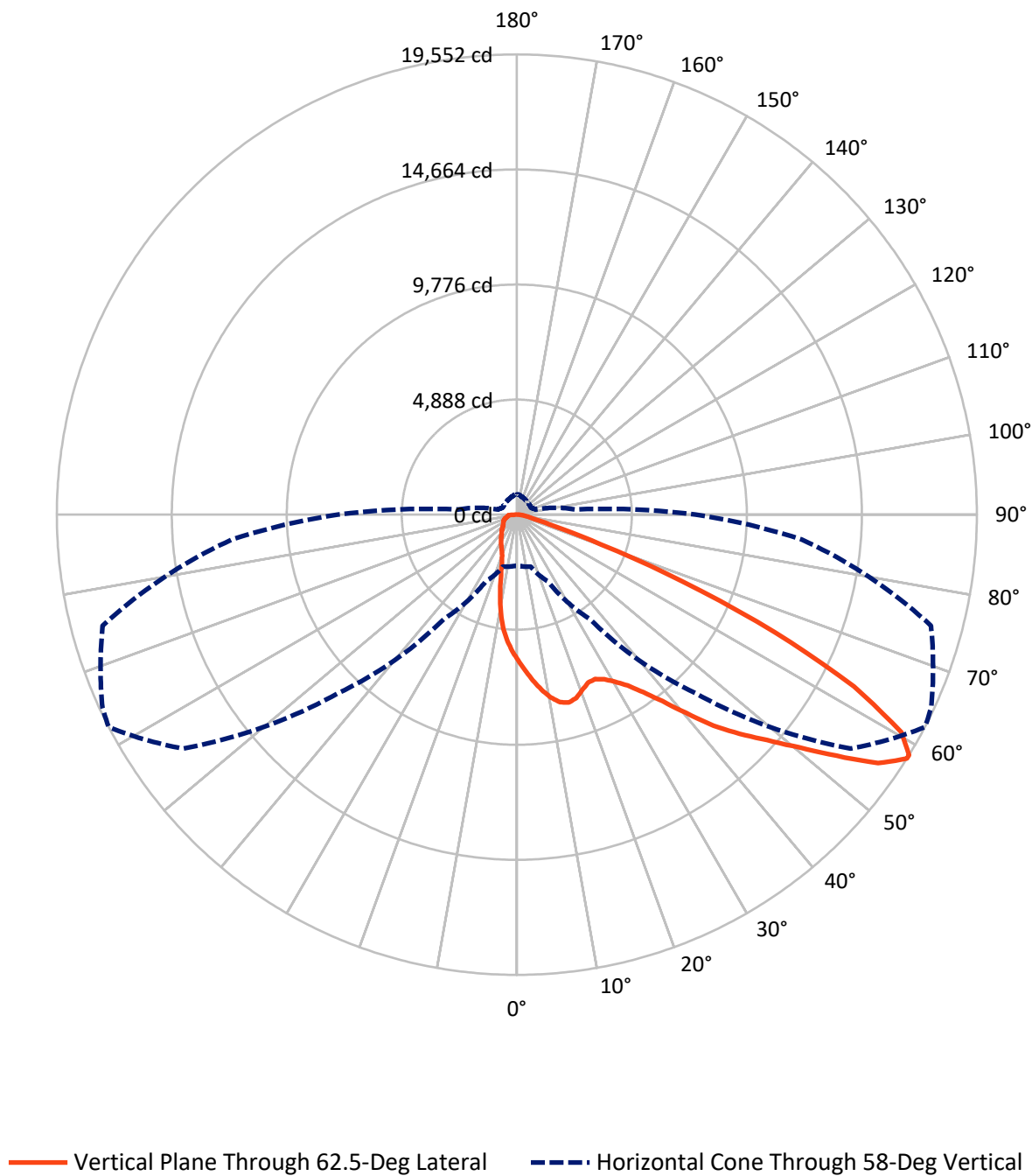


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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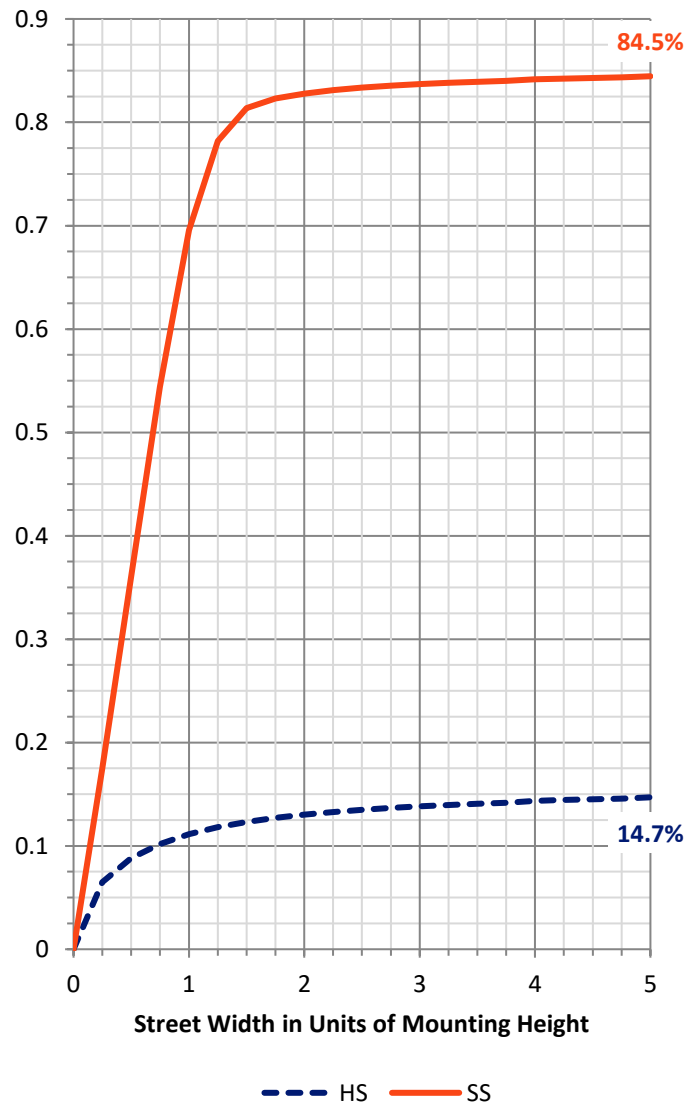
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3549.3	0.0	3549.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19724.0	0.0	19724.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	23273.3	0.0	23273.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	2.4
10°-20°	1413.3	6.1
20°-30°	2284.6	9.8
30°-40°	3626.8	15.6
40°-50°	5306.8	22.8
50°-60°	5550.5	23.8
60°-70°	3279.2	14.1
70°-80°	923.8	4.0
80°-90°	335.4	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°	23273.3	100.0
0°-180°	23273.3	100.0

Coefficient of Utilization



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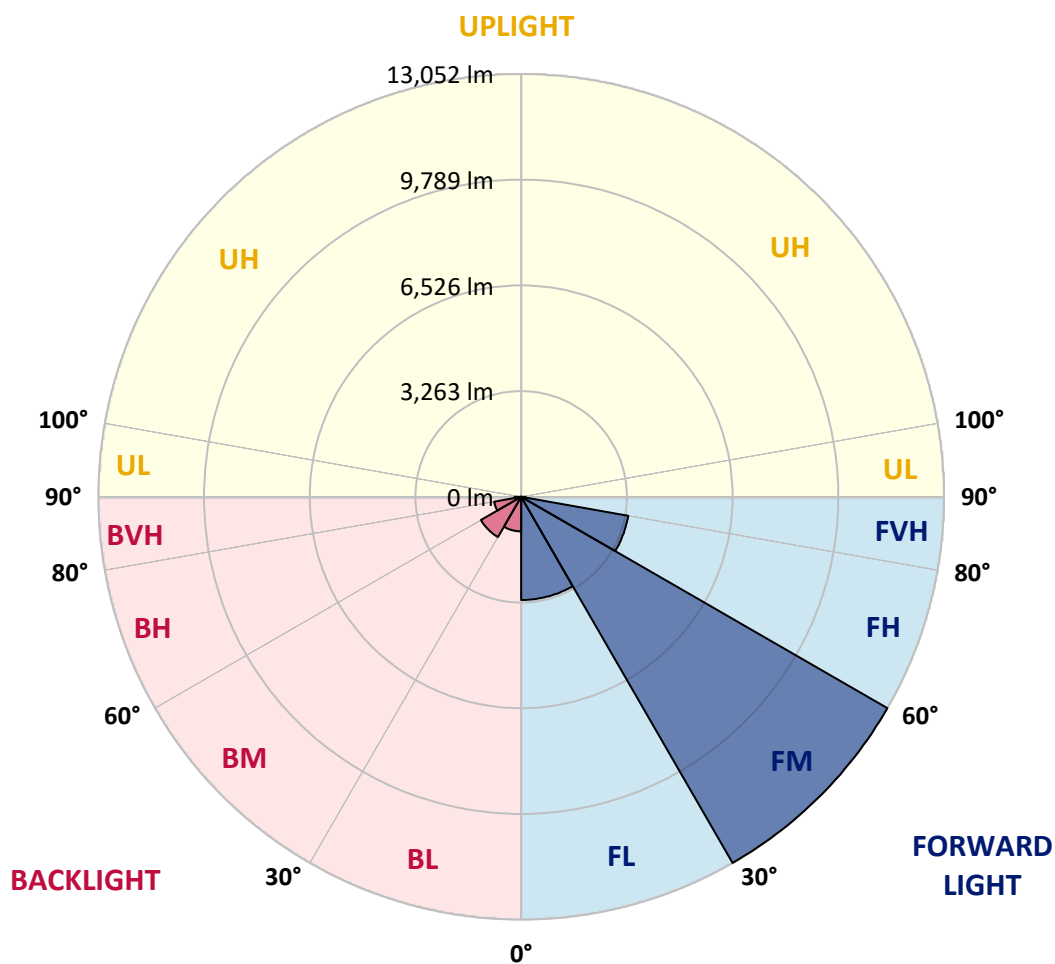
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.1	13.7			
FM	(30°-60°)	13051.5	56.1			
FH	(60°-80°)	3356.1	14.4			G2/5000
FVH	(80°-90°)	132.3	0.6			G2/225
BL	(0°-30°)	1066.7	4.6	B3/2500		
BM	(30°-60°)	1432.6	6.2	B2/2500		
BH	(60°-80°)	846.9	3.6	B2/1000		G2/1000
BVH	(80°-90°)	203.1	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1
2.5°	7064.2	7007.4	6971.2	6939.4	6897.7	6808.9	6689.5	6613.9	6575.6	6445.1	6290.6
5°	7757.0	7706.5	7669.2	7626.6	7552.0	7412.8	7220.0	7066.5	6990.9	6730.1	6420.9
7.5°	7594.7	7615.6	7680.2	7793.1	7889.5	7870.9	7698.9	7503.7	7404.1	7041.3	6572.3
10°	6617.2	6653.4	6765.2	7029.2	7456.6	7895.0	8028.7	7893.9	7793.1	7349.3	6727.8
12.5°	6420.9	6419.8	6428.7	6498.8	6753.1	7370.1	8039.7	8175.6	8115.2	7642.9	6886.7
15°	6501.0	6503.2	6496.7	6526.2	6605.2	6849.5	7704.3	8284.0	8326.7	7938.9	7051.1
17.5°	6711.4	6705.9	6680.7	6680.7	6709.2	6804.5	7309.8	8183.2	8380.5	8200.8	7195.9
20°	7064.2	7039.1	6972.3	6910.8	6880.2	6931.7	7147.6	7950.9	8287.4	8429.8	7315.2
22.5°	7491.7	7472.0	7363.5	7232.0	7125.7	7124.6	7230.9	7748.1	8126.2	8645.6	7416.1
25°	8044.1	8012.3	7851.2	7640.7	7454.4	7383.2	7412.8	7738.3	8038.5	8880.3	7506.0
27.5°	8692.8	8634.8	8444.1	8140.5	7866.5	7723.0	7680.2	7916.9	8118.6	9170.6	7630.8
30°	9479.7	9412.9	9168.5	8772.9	8385.9	8150.3	8059.4	8233.7	8383.8	9524.6	7831.4
32.5°	10375.0	10278.7	9995.9	9559.7	9051.1	8691.7	8543.7	8652.2	8771.8	9950.9	8082.5
35°	11612.4	11497.3	11088.5	10486.8	9912.5	9418.3	9181.6	9260.5	9376.7	10586.5	8445.2
37.5°	12456.2	12404.7	12132.9	11567.4	10942.8	10373.9	10007.9	10053.9	10119.7	11381.1	8909.9
40°	12448.6	12469.3	12474.9	12480.3	12055.1	11510.5	11117.0	11068.8	11055.6	12253.4	9438.1
42.5°	11825.0	11910.5	12186.7	12746.6	13005.2	12755.4	12394.8	12255.7	12186.7	13281.4	9998.1
45°	10870.4	10916.4	11433.8	12527.4	13491.9	13988.4	13715.5	13277.0	13152.1	14226.1	10462.7
47.5°	10378.3	10428.8	10754.3	11946.6	13486.4	14984.5	15142.4	14307.3	14083.6	15048.1	10863.8
50°	9206.8	9312.0	9721.9	10936.2	12994.3	15442.6	16633.8	15534.7	15072.2	15848.0	11266.0
52.5°	7055.5	7217.7	7676.9	9274.8	11746.0	15215.8	17827.3	17022.9	16369.8	16676.6	11611.3
55°	4450.5	4571.1	4956.9	6550.3	9396.4	14035.5	18279.9	18632.8	18052.1	17461.3	11910.5
57.5°	2419.8	2473.5	2618.2	3616.5	6112.0	11426.0	17620.2	19549.0	19307.9	18127.6	12136.2
58°	2165.5	2201.7	2291.6	3134.3	5420.5	10712.7	17327.5	19552.3	19431.8	18225.1	12153.8
60°	1606.6	1588.0	1508.0	1788.6	3017.0	7400.7	15558.7	18769.8	19123.7	18344.6	12068.2
62.5°	1411.5	1366.7	1203.3	1184.7	1467.5	3409.4	11905.0	16078.3	16914.4	17663.0	11548.8
65°	1326.1	1277.9	1067.5	999.5	1058.6	1442.2	7012.8	12058.4	13107.2	15596.0	10220.5
67.5°	1262.5	1200.0	980.8	887.7	892.1	953.4	2811.0	7594.7	8775.0	11841.4	7949.8
70°	1201.1	1133.1	907.4	800.0	774.8	754.0	1117.8	3801.7	4872.4	7479.7	5068.6
72.5°	1135.4	1068.5	842.7	731.0	681.7	612.6	729.9	1555.1	2172.1	3538.7	2299.3
75°	1040.0	979.7	778.2	669.6	599.5	507.4	551.2	812.2	974.3	1409.3	1108.0
77.5°	922.8	873.4	705.9	619.2	531.5	412.0	424.2	563.3	624.6	806.6	658.7
80°	662.9	680.5	627.9	556.6	473.4	334.3	325.5	411.0	443.8	518.3	428.6
82.5°	465.8	475.6	519.4	454.8	391.2	263.0	240.1	289.3	309.1	340.8	231.2
85°	321.1	310.2	356.1	316.8	282.8	175.4	164.4	196.1	208.2	211.5	119.4
87.5°	192.9	192.9	206.1	169.9	152.3	91.0	88.7	111.8	119.4	113.9	65.8
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°	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1	6182.1
2.5°	6198.5	6120.7	5955.1	5822.7	5654.9	5480.7	5383.2	5279.1	5207.9	5156.3	5238.6
5°	6245.7	6086.8	5744.9	5420.5	5062.1	4689.4	4406.7	4143.6	3960.6	3846.7	3954.1
7.5°	6320.2	6075.8	5531.1	4976.5	4333.2	3712.9	3158.4	2811.0	2608.2	2508.6	2571.0
10°	6405.7	6058.2	5280.2	4375.0	3454.3	2672.9	2258.7	2118.4	2072.4	2053.7	2062.5
12.5°	6476.9	6020.9	4972.2	3647.2	2594.1	2110.8	1991.2	1988.0	1998.0	2000.1	2003.4
15°	6527.2	5966.2	4515.1	2888.9	2074.7	1923.3	1916.7	1936.5	1955.0	1962.9	1967.2
17.5°	6561.2	5853.3	3999.0	2283.8	1858.7	1832.4	1847.7	1872.9	1892.7	1898.2	1902.5
20°	6558.0	5687.8	3384.2	1904.7	1741.4	1741.4	1767.7	1787.5	1788.6	1782.0	1785.3
22.5°	6524.0	5461.0	2788.0	1703.1	1637.2	1656.0	1682.3	1663.6	1586.9	1536.5	1539.8
25°	6467.0	5190.3	2277.3	1574.9	1540.9	1573.8	1566.1	1425.9	1316.2	1266.9	1266.9
27.5°	6416.6	4870.2	1884.9	1463.1	1444.4	1485.0	1349.1	1221.9	1175.9	1152.9	1145.2
30°	6380.4	4525.1	1623.0	1355.7	1353.5	1323.9	1170.5	1135.4	1127.7	1109.1	1102.5
32.5°	6389.3	4175.5	1455.4	1261.4	1269.0	1133.1	1085.0	1092.6	1086.0	1066.4	1057.5
35°	6461.6	3843.4	1345.7	1175.9	1152.9	1023.5	1034.5	1048.8	1046.6	1019.2	1010.4
37.5°	6590.8	3528.8	1273.4	1104.7	1006.1	968.8	986.3	1008.3	1002.8	984.1	977.6
40°	6726.8	3233.0	1214.3	1048.8	919.5	931.6	946.8	959.0	964.4	969.9	965.6
42.5°	6859.4	2923.9	1142.0	991.8	883.4	896.5	903.0	915.0	944.6	965.6	964.4
45°	6938.3	2633.4	1067.5	910.6	854.9	862.5	858.1	882.3	918.5	952.3	953.4
47.5°	7025.9	2407.7	1008.3	836.2	827.4	832.9	819.8	843.8	876.7	918.5	922.8
50°	7132.2	2272.9	961.2	777.1	790.2	790.2	786.8	808.7	854.9	903.0	911.8
52.5°	7252.8	2246.6	921.7	734.2	752.9	751.8	755.1	788.0	838.3	885.5	893.2
55°	7399.7	2317.8	878.9	702.5	716.7	721.1	732.0	769.3	812.2	865.8	869.0
57.5°	7570.6	2462.4	844.9	677.3	683.9	698.0	715.6	749.6	795.6	854.9	858.1
58°	7599.1	2493.2	839.4	675.1	677.3	693.7	713.5	746.4	792.3	857.0	860.3
60°	7600.2	2595.1	827.4	665.2	652.1	679.5	701.3	734.2	786.8	864.7	872.3
62.5°	7330.6	2594.1	818.7	650.9	625.7	659.7	684.9	723.3	781.4	883.4	898.6
65°	6454.9	2357.3	777.1	629.0	605.0	642.2	670.8	715.6	796.7	964.4	974.3
67.5°	5048.9	1932.1	699.1	598.4	577.6	624.6	661.9	714.5	813.2	983.0	989.6
70°	3338.2	1445.5	613.7	563.3	549.0	603.8	666.4	751.8	794.6	943.6	926.1
72.5°	1732.7	1014.8	544.6	519.4	516.1	585.2	729.9	747.5	776.0	887.7	865.8
75°	909.6	704.7	484.3	471.2	476.7	580.8	861.4	727.6	751.8	849.4	891.0
77.5°	556.6	568.8	432.8	427.4	438.3	567.7	860.3	702.5	716.7	781.4	827.4
80°	372.6	461.4	393.5	394.5	402.2	519.4	772.6	662.9	674.0	738.7	785.8
82.5°	235.7	272.9	357.3	375.9	366.0	428.6	656.4	603.8	619.2	844.9	893.2
85°	119.4	171.0	310.2	361.6	329.9	300.3	532.6	529.4	537.0	609.3	636.8
87.5°	54.8	94.3	242.2	315.6	248.8	187.4	386.9	392.3	423.1	432.8	432.8
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)