

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: P194304

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194304
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-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29509 lumens
Efficiency: N/A
Efficacy: 118.5 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 - G3

Input Watts (W): 249
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



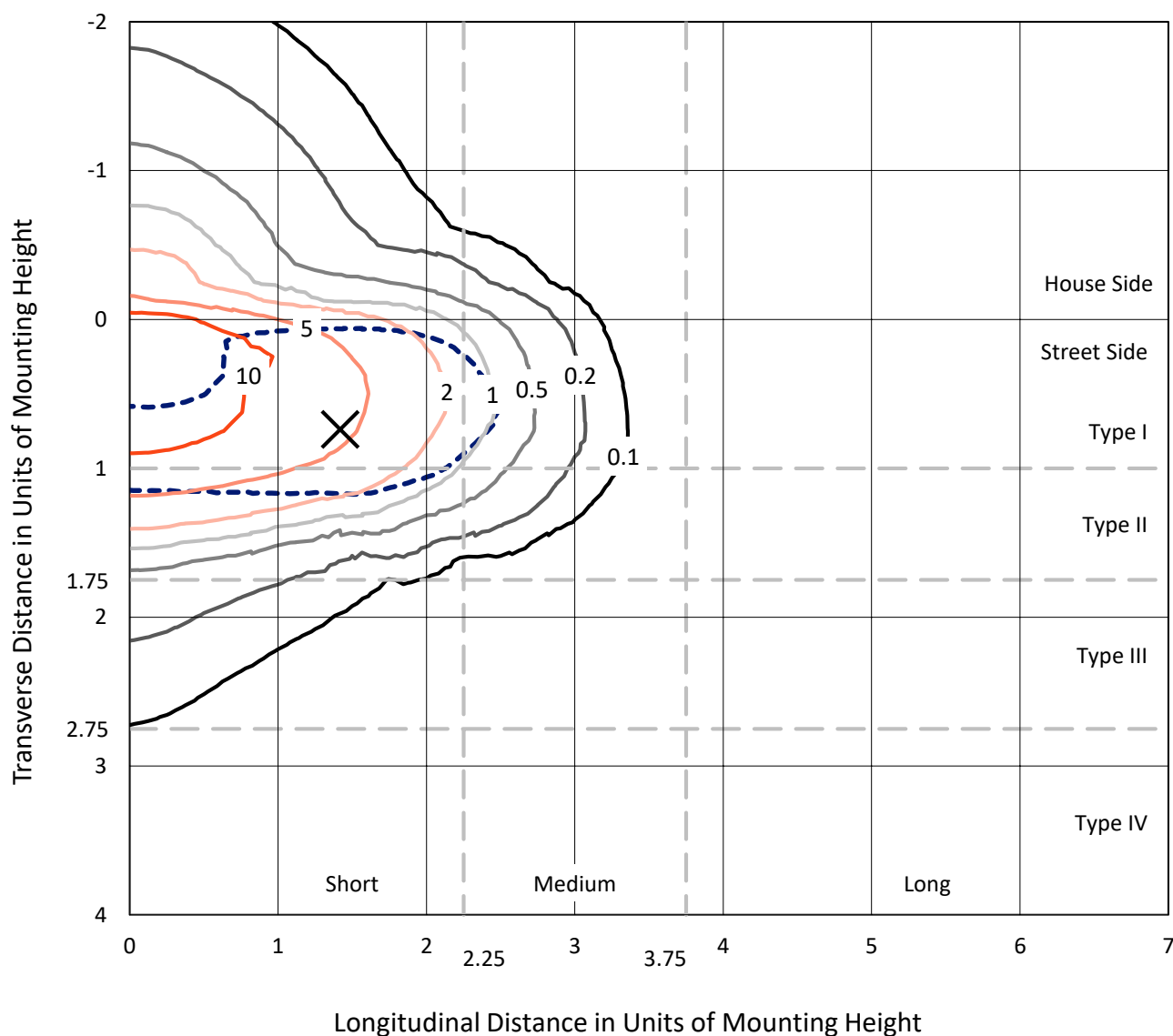
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

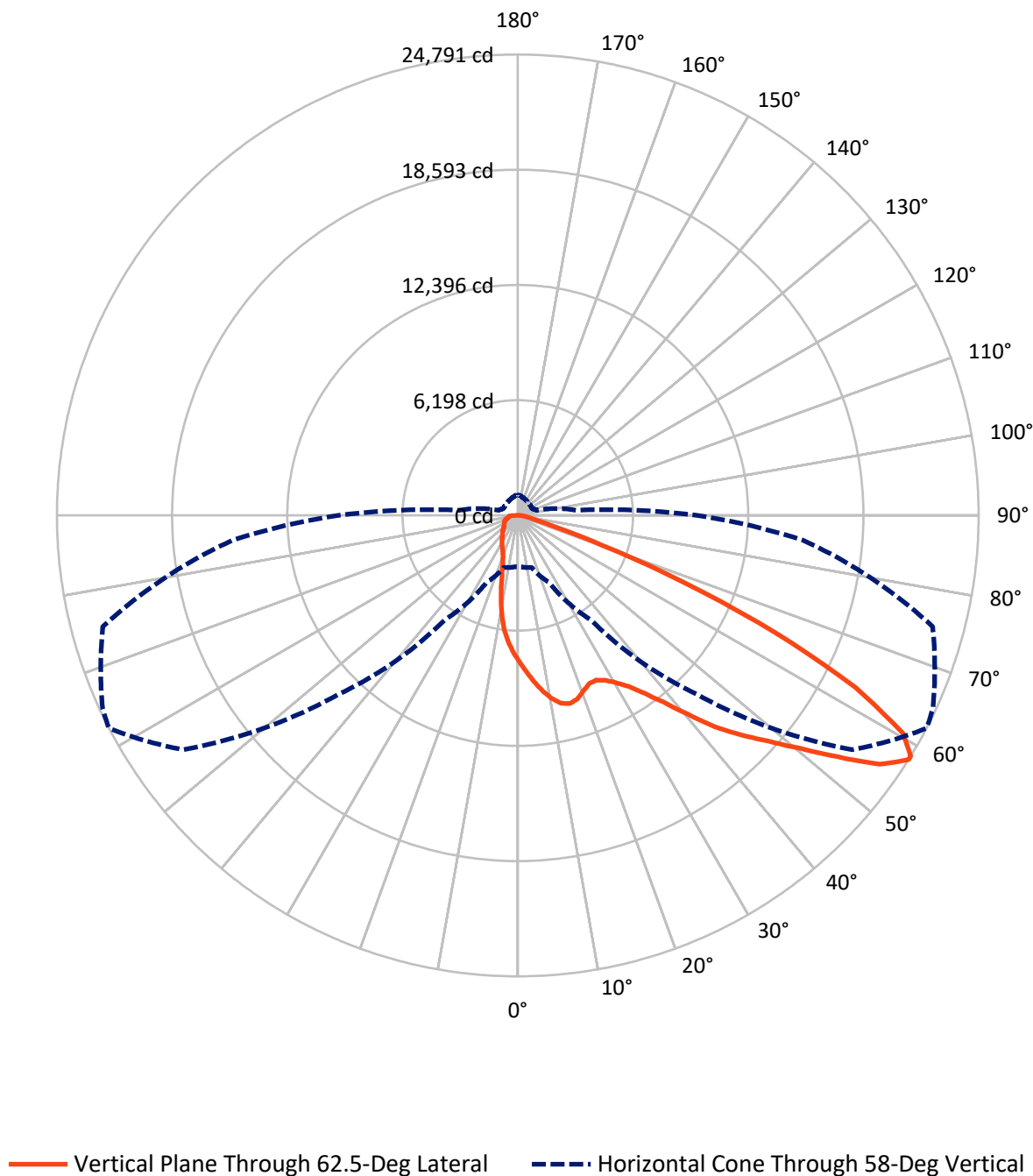


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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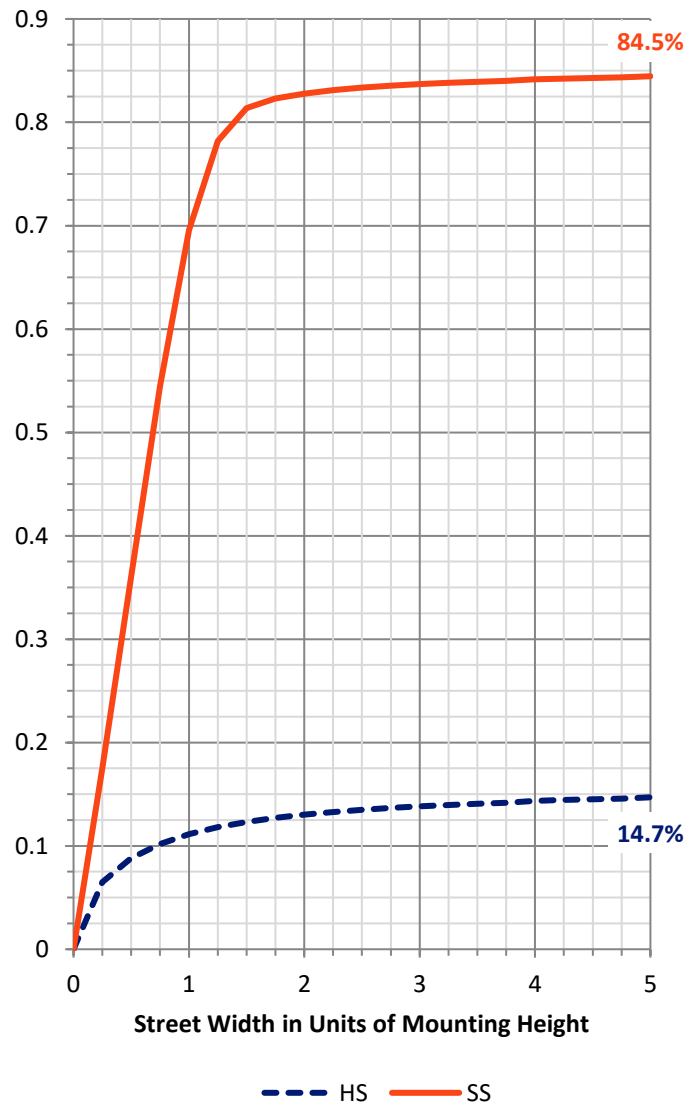
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4500.2	0.0	4500.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25008.8	0.0	25008.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	29509.0	0.0	29509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.0	2.4
10°-20°	1792.0	6.1
20°-30°	2896.8	9.8
30°-40°	4598.6	15.6
40°-50°	6728.7	22.8
50°-60°	7037.6	23.8
60°-70°	4157.8	14.1
70°-80°	1171.3	4.0
80°-90°	425.2	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°	29509.0	100.0
0°-180°	29509.0	100.0

Coefficient of Utilization



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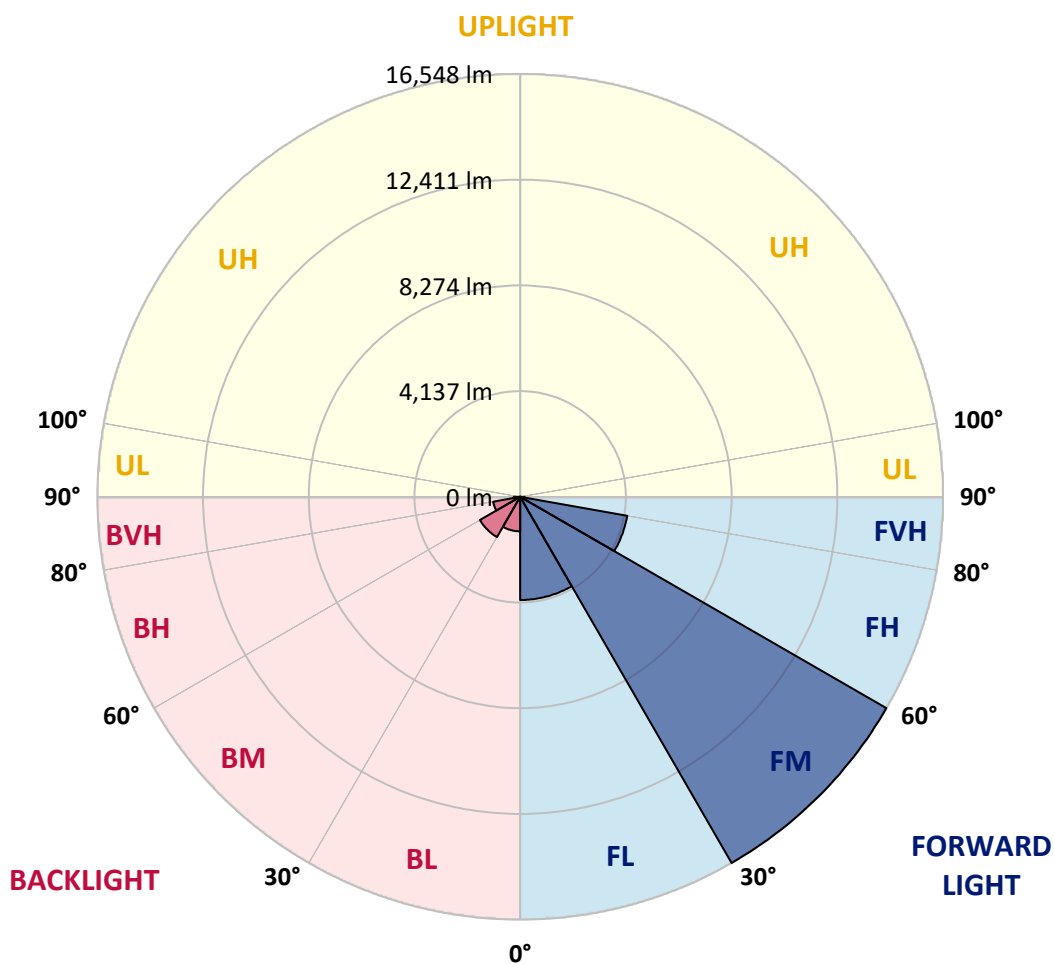
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4037.2	13.7			
FM	(30°-60°)	16548.5	56.1			
FH	(60°-80°)	4255.3	14.4			G2/5000
FVH	(80°-90°)	167.8	0.6			G2/225
BL	(0°-30°)	1352.6	4.6	B3/2500		
BM	(30°-60°)	1816.4	6.2	B2/2500		
BH	(60°-80°)	1073.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	257.5	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°	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5
2.5°	8957.1	8884.8	8838.9	8798.6	8745.8	8633.3	8481.8	8385.9	8337.3	8172.0	7976.0
5°	9835.3	9771.3	9724.1	9669.9	9575.4	9398.9	9154.4	8959.8	8864.0	8533.2	8141.4
7.5°	9629.6	9656.0	9738.0	9881.1	10003.4	9979.8	9761.6	9514.3	9387.8	8927.9	8333.1
10°	8390.1	8436.0	8577.7	8912.6	9454.5	10010.3	10179.9	10008.9	9881.1	9318.3	8530.5
12.5°	8141.4	8140.0	8151.1	8240.0	8562.4	9344.7	10193.8	10366.1	10289.6	9690.7	8731.9
15°	8242.8	8245.6	8237.3	8274.8	8374.8	8684.7	9768.6	10503.6	10557.8	10065.9	8940.4
17.5°	8509.6	8502.7	8470.7	8470.7	8506.8	8627.7	9268.3	10375.8	10625.9	10398.0	9123.8
20°	8957.1	8925.1	8840.3	8762.5	8723.6	8788.9	9062.7	10081.2	10507.8	10688.4	9275.3
22.5°	9499.0	9474.0	9336.4	9169.7	9034.9	9033.5	9168.3	9824.1	10303.5	10962.2	9403.1
25°	10199.3	10159.0	9954.8	9688.0	9451.7	9361.4	9398.9	9811.6	10192.4	11259.5	9517.0
27.5°	11021.9	10948.3	10706.5	10321.6	9974.2	9792.2	9738.0	10038.1	10293.8	11627.8	9675.5
30°	12019.6	11934.9	11625.0	11123.4	10632.9	10334.1	10218.8	10439.7	10630.1	12076.6	9929.7
32.5°	13154.9	13032.6	12674.1	12121.1	11476.3	11020.5	10833.0	10970.5	11122.0	12617.1	10247.9
35°	14723.7	14577.8	14059.5	13296.6	12568.5	11941.8	11641.7	11741.7	11889.0	13423.1	10707.9
37.5°	15793.7	15728.3	15383.7	14666.7	13874.7	13153.5	12689.4	12747.8	12831.1	14430.5	11297.1
40°	15783.9	15810.3	15817.3	15824.2	15285.1	14594.5	14095.6	14034.5	14017.8	15536.6	11966.8
42.5°	14993.3	15101.7	15451.8	16161.9	16489.8	16173.0	15715.8	15539.4	15451.8	16840.0	12676.9
45°	13783.0	13841.3	14497.2	15884.0	17106.8	17736.2	17390.2	16834.4	16676.0	18037.8	13266.1
47.5°	13159.1	13223.0	13635.7	15147.5	17099.8	18999.3	19199.4	18140.6	17857.1	19079.9	13774.6
50°	11673.6	11807.0	12326.7	13866.3	16475.9	19580.2	21090.6	19696.9	19110.5	20094.3	14284.6
52.5°	8945.9	9151.6	9733.8	11759.8	14893.2	19292.5	22603.8	21583.9	20755.7	21144.8	14722.3
55°	5643.0	5795.8	6284.9	8305.4	11914.0	17796.0	23177.7	23625.2	22888.7	22139.7	15101.7
57.5°	3068.1	3136.2	3319.6	4585.5	7749.5	14487.5	22341.2	24786.8	24481.1	22984.6	15387.9
58°	2745.8	2791.6	2905.6	3974.1	6872.7	13582.9	21970.2	24791.0	24638.2	23108.3	15410.1
60°	2037.1	2013.5	1912.0	2267.7	3825.4	9383.6	19727.5	23798.9	24247.7	23259.7	15301.8
62.5°	1789.7	1732.8	1525.7	1502.1	1860.6	4322.9	15094.7	20386.1	21446.4	22395.4	14643.1
65°	1681.4	1620.2	1353.4	1267.3	1342.3	1828.7	8891.7	15289.2	16619.0	19774.7	12959.0
67.5°	1600.8	1521.6	1243.6	1125.5	1131.1	1208.9	3564.2	9629.6	11126.1	15014.1	10079.8
70°	1522.9	1436.8	1150.5	1014.4	982.4	956.0	1417.3	4820.4	6177.9	9483.7	6426.7
72.5°	1439.6	1354.8	1068.6	926.8	864.3	776.8	925.4	1971.8	2754.1	4486.9	2915.3
75°	1318.7	1242.3	986.6	849.0	760.1	643.4	698.9	1029.7	1235.3	1787.0	1404.8
77.5°	1170.0	1107.5	894.9	785.1	673.9	522.5	537.8	714.2	792.0	1022.7	835.1
80°	840.7	862.9	796.2	705.9	600.3	423.8	412.7	521.1	562.8	657.3	543.3
82.5°	590.6	603.1	658.6	576.7	496.1	333.5	304.3	366.8	391.9	432.2	293.2
85°	407.1	393.2	451.6	401.6	358.5	222.3	208.4	248.7	264.0	268.2	151.5
87.5°	244.6	244.6	261.2	215.4	193.1	115.3	112.6	141.7	151.5	144.5	83.4
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°	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5
2.5°	7859.3	7760.6	7550.8	7382.7	7170.1	6949.2	6825.5	6693.5	6603.2	6537.8	6642.1
5°	7919.1	7717.6	7284.0	6872.7	6418.3	5945.9	5587.4	5253.9	5021.8	4877.3	5013.5
7.5°	8013.5	7703.7	7013.1	6310.0	5494.3	4707.8	4004.7	3564.2	3307.1	3180.7	3259.9
10°	8121.9	7681.4	6694.9	5547.1	4379.9	3389.1	2863.9	2686.0	2627.6	2604.0	2615.1
12.5°	8212.3	7634.2	6304.4	4624.4	3289.1	2676.3	2524.8	2520.6	2533.2	2535.9	2540.1
15°	8276.2	7564.7	5725.0	3662.9	2630.4	2438.7	2430.3	2455.3	2479.0	2488.7	2494.2
17.5°	8319.3	7421.6	5070.5	2895.8	2356.7	2323.3	2342.8	2374.7	2399.8	2406.7	2412.3
20°	8315.1	7211.8	4290.9	2415.0	2208.0	2208.0	2241.3	2266.4	2267.7	2259.4	2263.6
22.5°	8272.0	6924.1	3535.0	2159.4	2076.0	2099.6	2133.0	2109.3	2012.1	1948.2	1952.3
25°	8199.7	6580.9	2887.5	1996.8	1953.7	1995.4	1985.7	1807.8	1668.9	1606.3	1606.3
27.5°	8135.8	6175.2	2390.0	1855.1	1831.4	1882.8	1710.5	1549.4	1491.0	1461.8	1452.1
30°	8090.0	5737.5	2057.9	1718.9	1716.1	1678.6	1484.0	1439.6	1429.8	1406.2	1397.9
32.5°	8101.1	5294.2	1845.3	1599.4	1609.1	1436.8	1375.7	1385.4	1377.0	1352.0	1340.9
35°	8192.8	4873.2	1706.4	1491.0	1461.8	1297.8	1311.7	1329.8	1327.0	1292.3	1281.2
37.5°	8356.8	4474.4	1614.7	1400.7	1275.6	1228.4	1250.6	1278.4	1271.4	1247.8	1239.5
40°	8529.1	4099.2	1539.6	1329.8	1165.8	1181.1	1200.6	1215.9	1222.8	1229.8	1224.2
42.5°	8697.2	3707.3	1447.9	1257.5	1120.0	1136.7	1145.0	1160.3	1197.8	1224.2	1222.8
45°	8797.3	3339.1	1353.4	1154.7	1083.9	1093.6	1088.0	1118.6	1164.4	1207.5	1208.9
47.5°	8908.4	3052.8	1278.4	1060.2	1049.1	1056.1	1039.4	1070.0	1111.6	1164.4	1170.0
50°	9043.2	2881.9	1218.6	985.2	1001.9	1001.9	997.7	1025.5	1083.9	1145.0	1156.1
52.5°	9196.1	2848.6	1168.6	931.0	954.6	953.2	957.4	999.1	1063.0	1122.8	1132.5
55°	9382.3	2938.9	1114.4	890.7	908.8	914.3	928.2	975.5	1029.7	1097.7	1101.9
57.5°	9599.0	3122.3	1071.3	858.7	867.1	885.1	907.4	950.5	1008.8	1083.9	1088.0
58°	9635.2	3161.2	1064.4	856.0	858.7	879.6	904.6	946.3	1004.6	1086.6	1090.8
60°	9636.5	3290.5	1049.1	843.5	826.8	861.5	889.3	931.0	997.7	1096.4	1106.1
62.5°	9294.7	3289.1	1038.0	825.4	793.4	836.5	868.5	917.1	990.8	1120.0	1139.4
65°	8184.5	2988.9	985.2	797.6	767.0	814.3	850.4	907.4	1010.2	1222.8	1235.3
67.5°	6401.7	2449.8	886.5	758.7	732.3	792.0	839.3	906.0	1031.0	1246.4	1254.8
70°	4232.6	1832.8	778.1	714.2	696.2	765.6	844.8	953.2	1007.4	1196.4	1174.2
72.5°	2196.9	1286.7	690.6	658.6	654.5	742.0	925.4	947.7	983.8	1125.5	1097.7
75°	1153.3	893.5	614.2	597.5	604.5	736.5	1092.2	922.7	953.2	1076.9	1129.7
77.5°	705.9	721.2	548.9	541.9	555.8	719.8	1090.8	890.7	908.8	990.8	1049.1
80°	472.4	585.0	498.8	500.2	510.0	658.6	979.6	840.7	854.6	936.6	996.3
82.5°	298.8	346.0	453.0	476.6	464.1	543.3	832.3	765.6	785.1	1071.3	1132.5
85°	151.5	216.8	393.2	458.6	418.3	380.7	675.3	671.2	680.9	772.6	807.3
87.5°	69.5	119.5	307.1	400.2	315.4	237.6	490.5	497.5	536.4	548.9	548.9
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)