

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: P192713

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192713
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-05-LED-E1-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29518.6 lumens
Efficiency: N/A
Efficacy: 105.8 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): 279
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

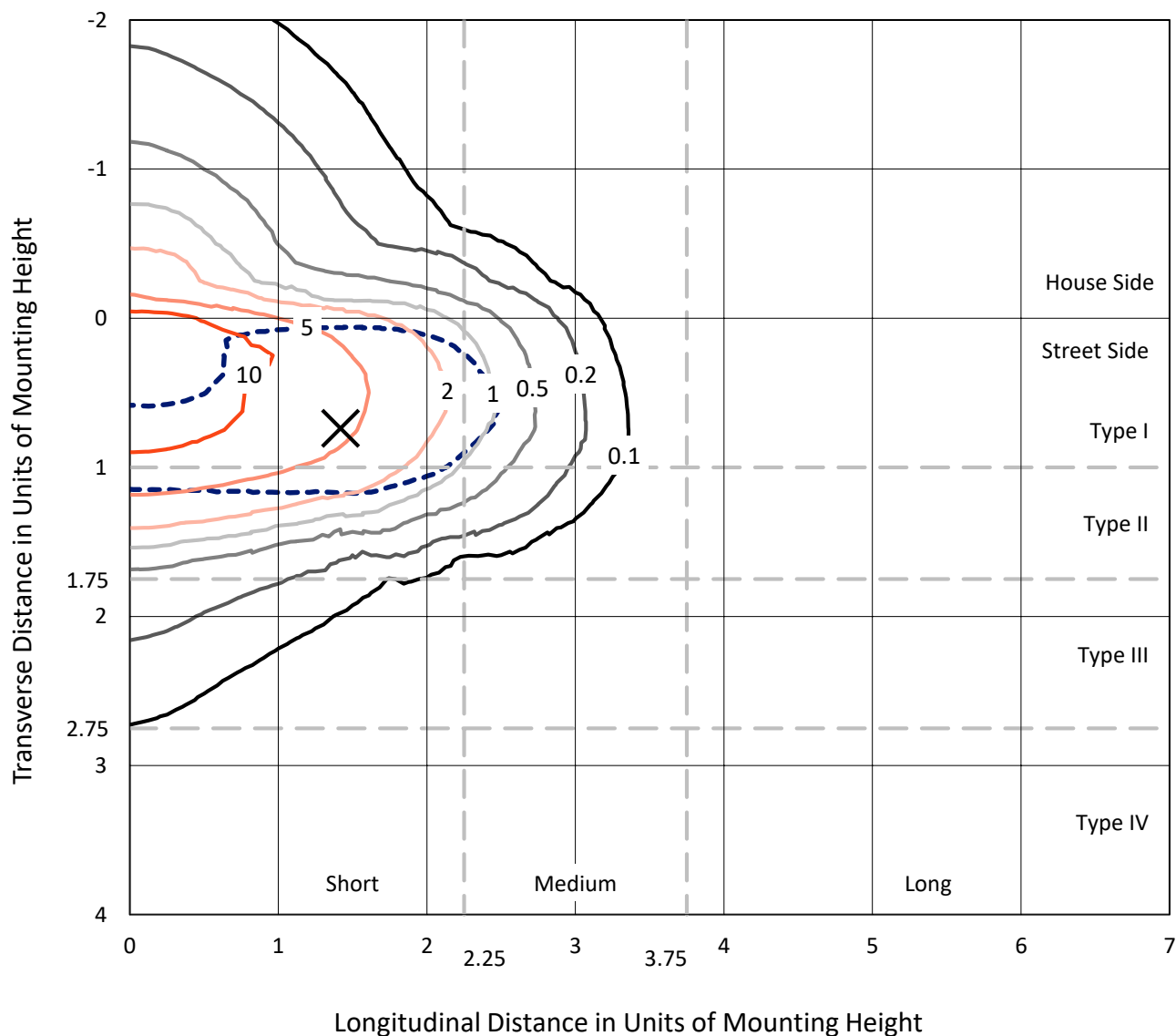


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

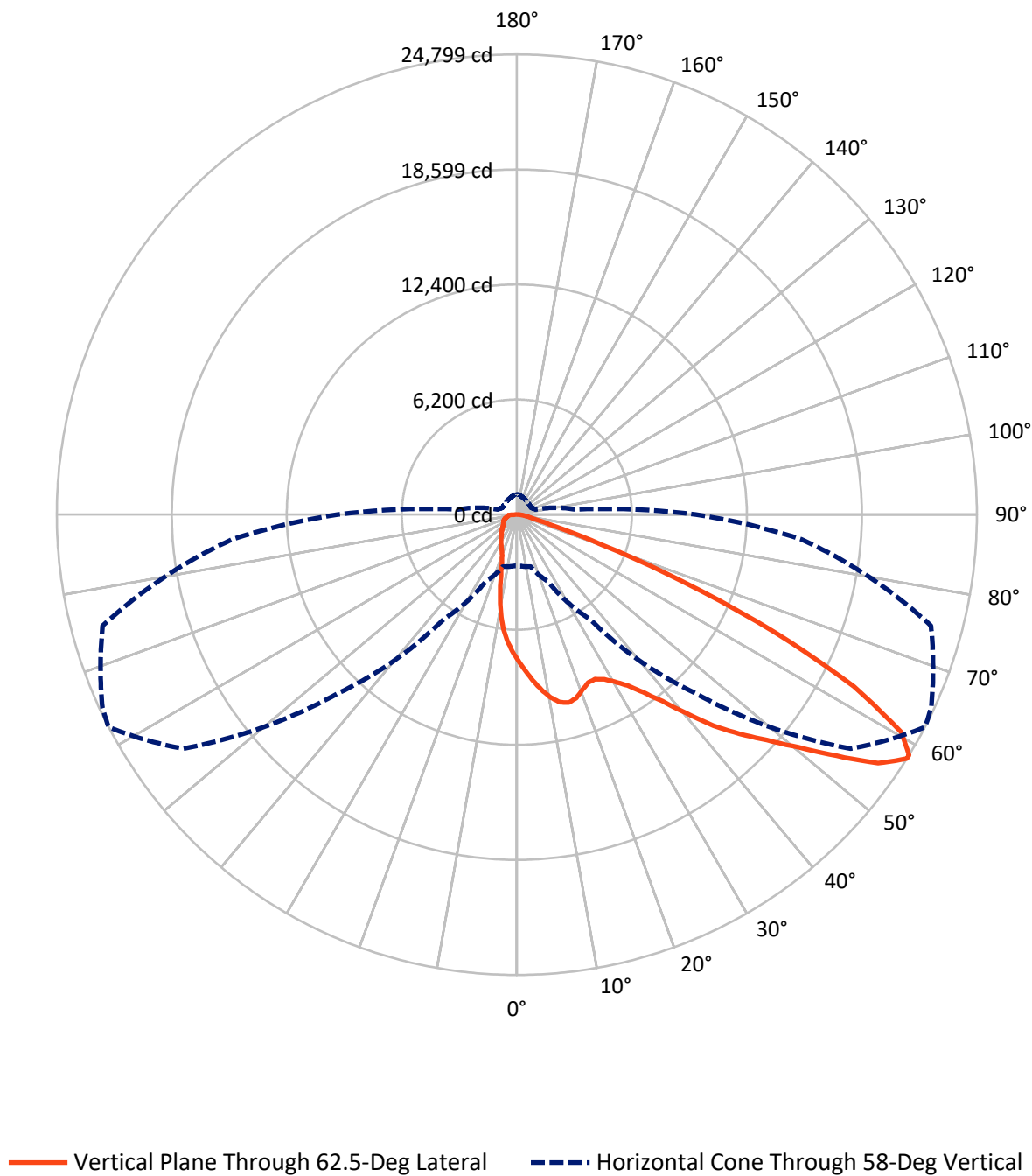


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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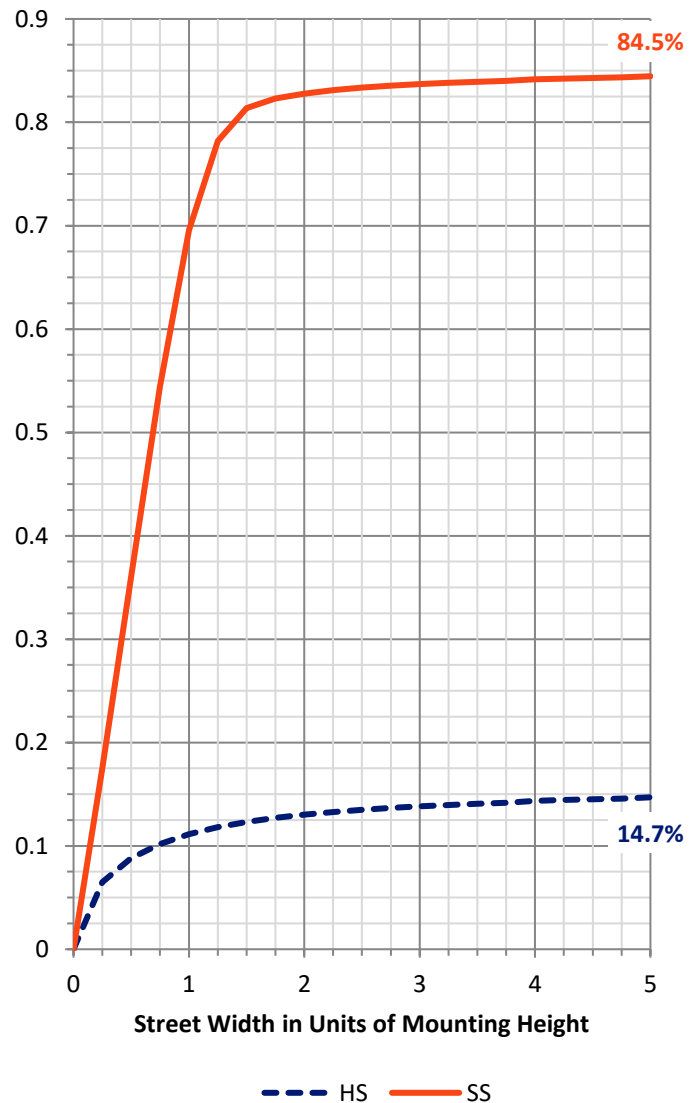
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4501.7	0.0	4501.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25016.9	0.0	25016.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	29518.6	0.0	29518.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.3	2.4
10°-20°	1792.5	6.1
20°-30°	2897.7	9.8
30°-40°	4600.1	15.6
40°-50°	6730.9	22.8
50°-60°	7039.9	23.8
60°-70°	4159.2	14.1
70°-80°	1171.7	4.0
80°-90°	425.4	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°	29518.6	100.0
0°-180°	29518.6	100.0

Coefficient of Utilization



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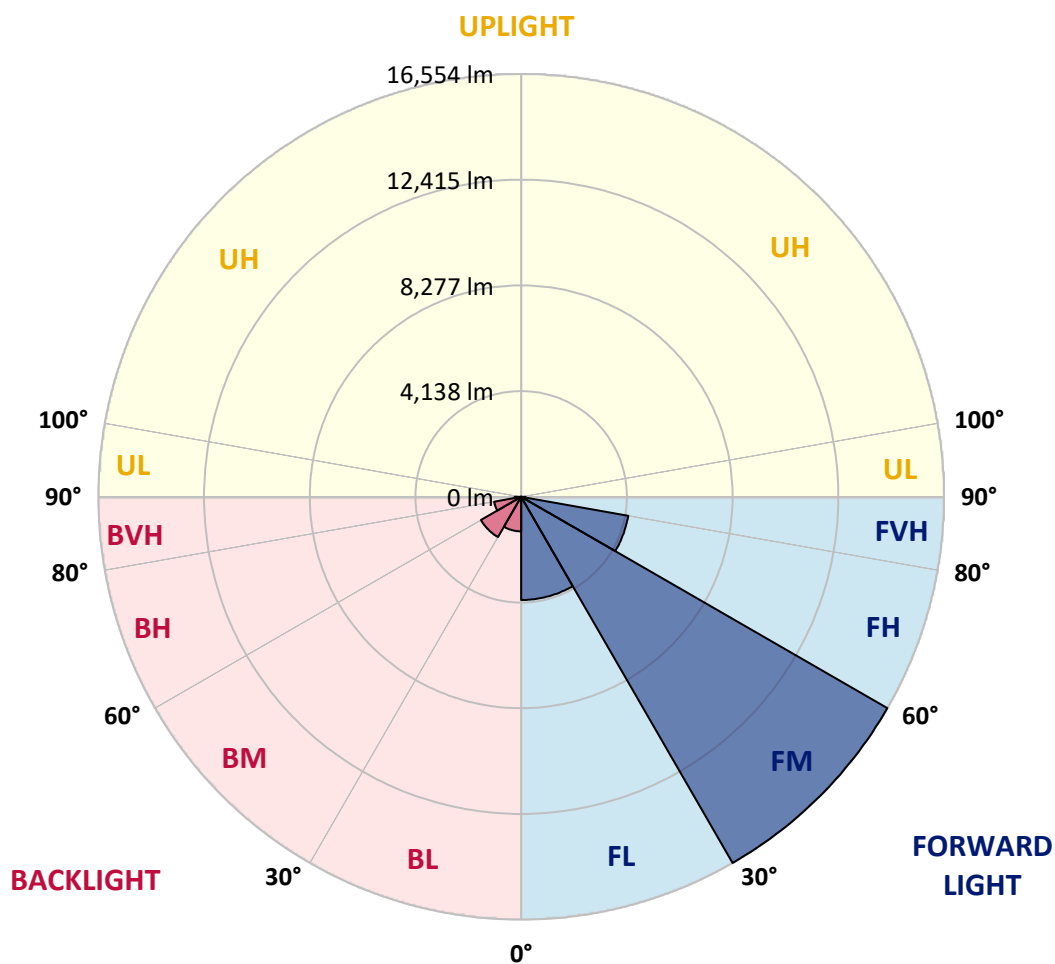
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4038.5	13.7			
FM	(30°-60°)	16553.9	56.1			
FH	(60°-80°)	4256.7	14.4			G2/5000
FVH	(80°-90°)	167.8	0.6			G2/225
BL	(0°-30°)	1353.0	4.6	B3/2500		
BM	(30°-60°)	1817.0	6.2	B2/2500		
BH	(60°-80°)	1074.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	257.6	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°	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0
2.5°	8960.0	8887.7	8841.8	8801.5	8748.7	8636.1	8484.5	8388.7	8340.0	8174.6	7978.6
5°	9838.5	9774.6	9727.3	9673.0	9578.5	9402.0	9157.3	8962.7	8866.8	8536.0	8144.0
7.5°	9632.8	9659.2	9741.1	9884.3	10006.6	9983.0	9764.7	9517.3	9390.9	8930.8	8335.8
10°	8392.9	8438.7	8580.4	8915.4	9457.6	10013.6	10183.2	10012.2	9884.3	9321.4	8533.2
12.5°	8144.0	8142.6	8153.8	8242.7	8565.2	9347.7	10197.0	10369.5	10293.0	9693.9	8734.7
15°	8245.5	8248.3	8239.9	8277.5	8377.6	8687.5	9771.7	10507.0	10561.2	10069.3	8943.3
17.5°	8512.4	8505.4	8473.5	8473.5	8509.5	8630.5	9271.3	10379.2	10629.4	10401.4	9126.8
20°	8960.0	8928.0	8843.2	8765.4	8726.4	8791.8	9065.6	10084.5	10511.2	10691.9	9278.3
22.5°	9502.1	9477.0	9339.5	9172.7	9037.8	9036.4	9171.2	9827.4	10306.9	10965.7	9406.1
25°	10202.6	10162.3	9958.0	9691.1	9454.8	9364.5	9402.0	9814.8	10195.6	11263.2	9520.1
27.5°	11025.5	10951.8	10709.9	10324.9	9977.4	9795.3	9741.1	10041.4	10297.1	11631.5	9678.6
30°	12023.6	11938.8	11628.8	11127.0	10636.3	10337.4	10222.1	10443.1	10633.5	12080.5	9933.0
32.5°	13159.1	13036.9	12678.2	12125.0	11480.1	11024.1	10836.5	10974.1	11125.6	12621.2	10251.2
35°	14728.4	14582.5	14064.1	13300.9	12572.6	11945.7	11645.4	11745.5	11892.9	13427.4	10711.3
37.5°	15798.8	15733.5	15388.7	14671.5	13879.2	13157.8	12693.5	12751.8	12835.3	14435.3	11300.6
40°	15789.0	15815.5	15822.4	15829.4	15290.1	14599.2	14100.2	14039.0	14022.4	15541.6	11970.7
42.5°	14998.1	15106.5	15456.8	16167.1	16495.2	16178.2	15721.0	15544.5	15456.8	16845.5	12680.9
45°	13787.4	13845.8	14501.9	15889.1	17112.3	17741.9	17395.9	16839.9	16681.3	18043.6	13270.4
47.5°	13163.3	13227.3	13640.2	15152.4	17105.4	19005.5	19205.7	18146.6	17862.9	19086.2	13779.1
50°	11677.4	11810.8	12330.7	13870.8	16481.3	19586.6	21097.4	19703.3	19116.8	20100.9	14289.3
52.5°	8948.9	9154.7	9736.9	11763.6	14898.0	19298.8	22611.2	21590.9	20762.4	21151.7	14727.0
55°	5644.8	5797.8	6287.0	8308.1	11917.9	17801.7	23185.3	23632.9	22896.2	22147.0	15106.5
57.5°	3069.1	3137.3	3320.7	4587.0	7752.1	14492.1	22348.4	24794.9	24489.1	22992.1	15392.9
58°	2746.7	2792.5	2906.6	3975.4	6874.9	13587.3	21977.4	24799.0	24646.1	23115.8	15415.2
60°	2037.8	2014.0	1912.7	2268.4	3826.7	9386.7	19733.9	23806.6	24255.5	23267.3	15306.6
62.5°	1790.3	1733.3	1526.3	1502.7	1861.2	4324.3	15099.6	20392.7	21453.3	22402.6	14647.9
65°	1681.9	1620.8	1353.8	1267.7	1342.8	1829.2	8894.6	15294.2	16624.5	19781.2	12963.2
67.5°	1601.3	1522.1	1244.0	1125.9	1131.5	1209.3	3565.3	9632.8	11129.8	15019.0	10083.1
70°	1523.4	1437.3	1150.9	1014.7	982.7	956.3	1417.8	4821.9	6179.9	9486.8	6428.9
72.5°	1440.0	1355.3	1068.9	927.2	864.6	777.1	925.8	1972.4	2755.0	4488.4	2916.2
75°	1319.1	1242.8	986.9	849.3	760.3	643.5	699.1	1030.0	1235.7	1787.6	1405.3
77.5°	1170.3	1107.8	895.2	785.3	674.1	522.6	537.9	714.4	792.3	1023.0	835.4
80°	841.0	863.1	796.5	706.2	600.5	423.9	412.8	521.2	562.9	657.5	543.4
82.5°	590.8	603.2	658.9	576.9	496.2	333.6	304.4	367.0	392.0	432.3	293.3
85°	407.3	393.4	451.8	401.7	358.6	222.5	208.4	248.8	264.1	268.2	151.6
87.5°	244.6	244.6	261.3	215.5	193.2	115.4	112.5	141.8	151.6	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°	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0	7841.0
2.5°	7861.9	7763.2	7553.3	7385.1	7172.5	6951.4	6827.7	6695.6	6605.3	6539.9	6644.2
5°	7921.7	7720.0	7286.4	6874.9	6420.4	5947.8	5589.1	5255.6	5023.5	4878.9	5015.1
7.5°	8016.2	7706.2	7015.3	6312.0	5496.1	4709.3	4006.0	3565.3	3308.3	3181.7	3261.0
10°	8124.5	7683.9	6697.0	5548.8	4381.3	3390.2	2864.8	2686.9	2628.4	2604.8	2616.0
12.5°	8214.8	7636.6	6306.5	4625.9	3290.2	2677.2	2525.6	2521.4	2533.9	2536.8	2541.0
15°	8278.9	7567.2	5726.9	3664.0	2631.3	2439.4	2431.1	2456.1	2479.7	2489.5	2495.1
17.5°	8321.9	7424.0	5072.2	2896.8	2357.5	2324.1	2343.5	2375.6	2400.5	2407.5	2413.1
20°	8317.8	7214.2	4292.4	2415.8	2208.6	2208.6	2242.1	2267.1	2268.4	2260.1	2264.3
22.5°	8274.6	6926.4	3536.1	2160.0	2076.7	2100.3	2133.7	2110.1	2012.8	1948.7	1952.9
25°	8202.4	6583.1	2888.4	1997.5	1954.3	1996.0	1986.4	1808.4	1669.4	1606.8	1606.8
27.5°	8138.5	6177.2	2390.8	1855.7	1832.1	1883.4	1711.1	1549.9	1491.5	1462.3	1452.6
30°	8092.7	5739.3	2058.6	1719.4	1716.7	1679.1	1484.5	1440.0	1430.3	1406.7	1398.3
32.5°	8103.8	5295.9	1845.9	1599.9	1609.6	1437.3	1376.1	1385.9	1377.5	1352.5	1341.3
35°	8195.4	4874.7	1706.9	1491.5	1462.3	1298.2	1312.2	1330.2	1327.5	1292.7	1281.6
37.5°	8359.4	4475.8	1615.2	1401.1	1276.0	1228.7	1251.0	1278.8	1271.9	1248.2	1239.9
40°	8531.8	4100.5	1540.1	1330.2	1166.3	1181.5	1201.0	1216.3	1223.1	1230.1	1224.6
42.5°	8700.0	3708.5	1448.3	1257.9	1120.4	1137.1	1145.4	1160.7	1198.1	1224.6	1223.1
45°	8800.1	3340.2	1353.8	1155.1	1084.2	1093.9	1088.3	1119.0	1164.8	1207.9	1209.3
47.5°	8911.3	3053.8	1278.8	1060.6	1049.4	1056.4	1039.7	1070.3	1112.0	1164.8	1170.3
50°	9046.1	2883.0	1219.0	985.5	1002.2	1002.2	998.0	1025.8	1084.2	1145.4	1156.5
52.5°	9199.1	2849.5	1169.0	931.3	954.9	953.5	957.7	999.4	1063.3	1123.0	1132.8
55°	9385.3	2939.8	1114.8	891.0	909.0	914.6	928.4	975.8	1030.0	1098.0	1102.3
57.5°	9602.1	3123.2	1071.8	859.0	867.4	885.4	907.7	950.8	1009.1	1084.2	1088.3
58°	9638.3	3162.3	1064.7	856.3	859.0	879.9	904.8	946.6	1004.9	1087.0	1091.2
60°	9639.7	3291.6	1049.4	843.7	827.1	861.8	889.6	931.3	998.0	1096.8	1106.5
62.5°	9297.8	3290.2	1038.3	825.7	793.7	836.8	868.7	917.4	991.1	1120.4	1139.8
65°	8187.2	2989.9	985.5	797.8	767.3	814.5	850.7	907.7	1010.5	1223.1	1235.7
67.5°	6403.8	2450.5	886.8	759.0	732.6	792.3	839.5	906.3	1031.4	1246.8	1255.2
70°	4233.9	1833.4	778.4	714.4	696.4	765.9	845.1	953.5	1007.7	1196.8	1174.5
72.5°	2197.6	1287.2	690.8	658.9	654.7	742.3	925.8	948.0	984.1	1125.9	1098.0
75°	1153.7	893.7	614.4	597.6	604.6	736.7	1092.6	922.9	953.5	1077.3	1130.1
77.5°	706.2	721.4	549.0	542.2	556.0	720.0	1091.2	891.0	909.0	991.1	1049.4
80°	472.6	585.2	499.0	500.4	510.1	658.9	979.9	841.0	854.9	936.9	996.7
82.5°	298.9	346.2	453.1	476.8	464.3	543.4	832.7	765.9	785.3	1071.8	1132.8
85°	151.6	216.9	393.4	458.7	418.4	380.9	675.6	671.4	681.1	772.8	807.7
87.5°	69.5	119.5	307.2	400.3	315.5	237.6	490.7	497.5	536.6	549.0	549.0
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)