

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: P193215

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27431.7 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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



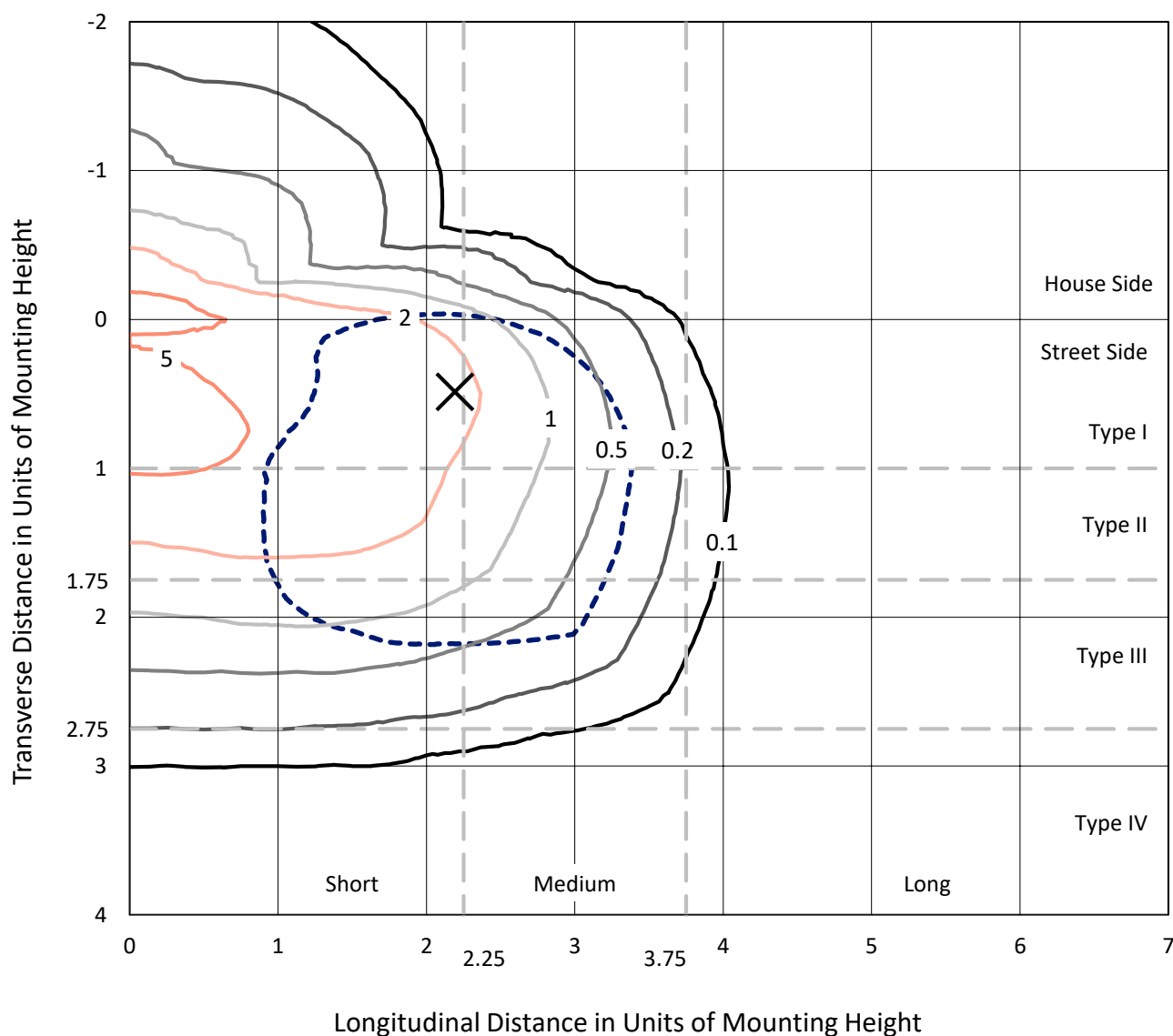
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

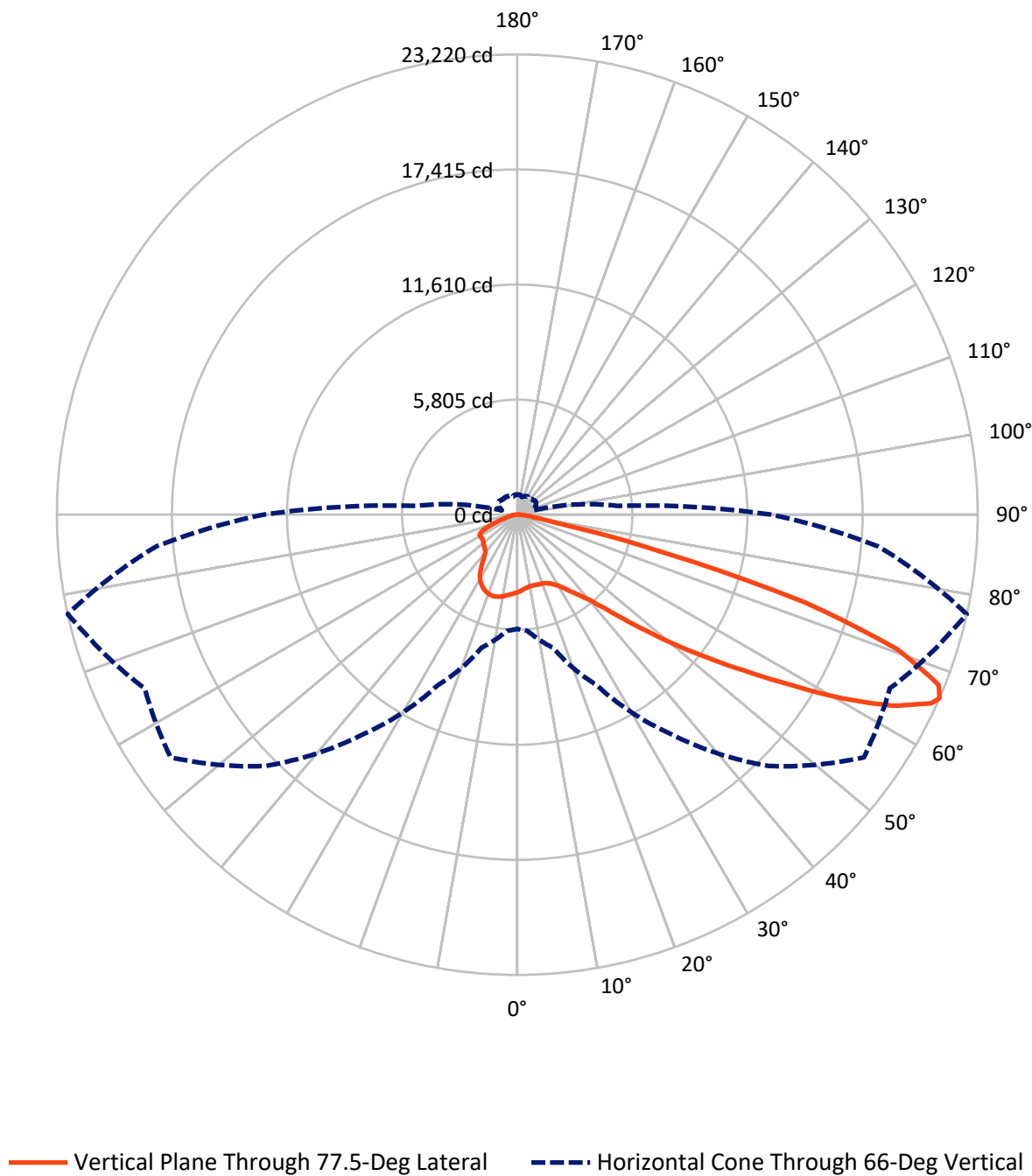


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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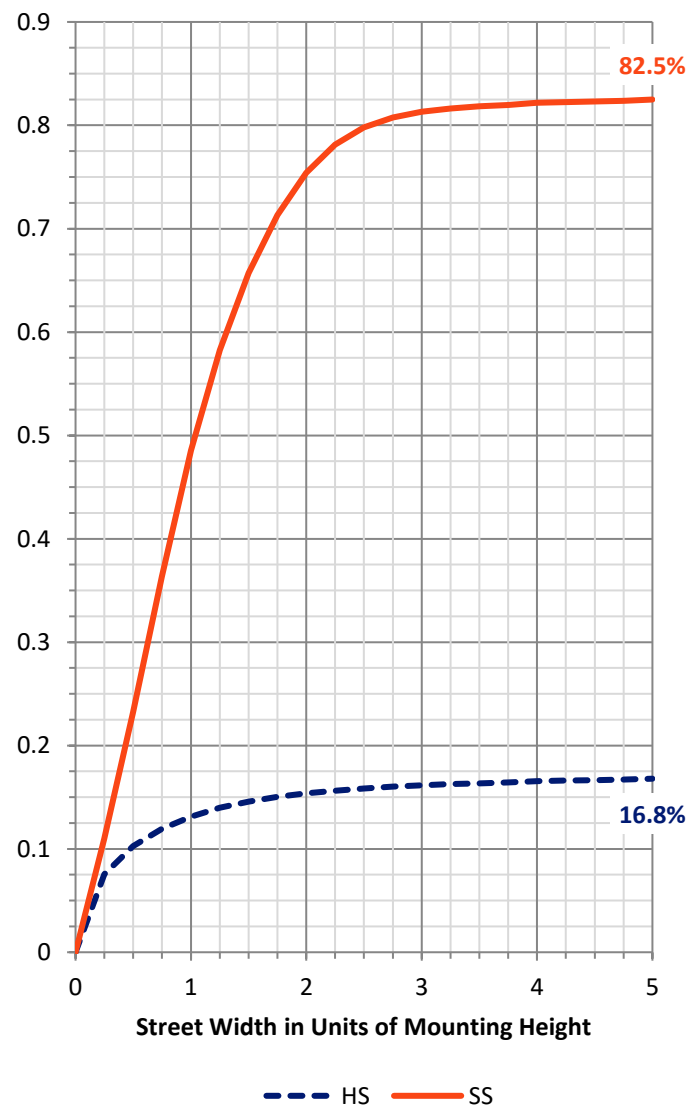
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.5	0.0	4686.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22745.2	0.0	22745.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	27431.7	0.0	27431.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.3
10°-20°	985.3	3.6
20°-30°	1681.6	6.1
30°-40°	2691.9	9.8
40°-50°	4158.7	15.2
50°-60°	5898.4	21.5
60°-70°	7890.5	28.8
70°-80°	3426.7	12.5
80°-90°	349.4	1.3
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°	27431.7	100.0
0°-180°	27431.7	100.0

Coefficient of Utilization



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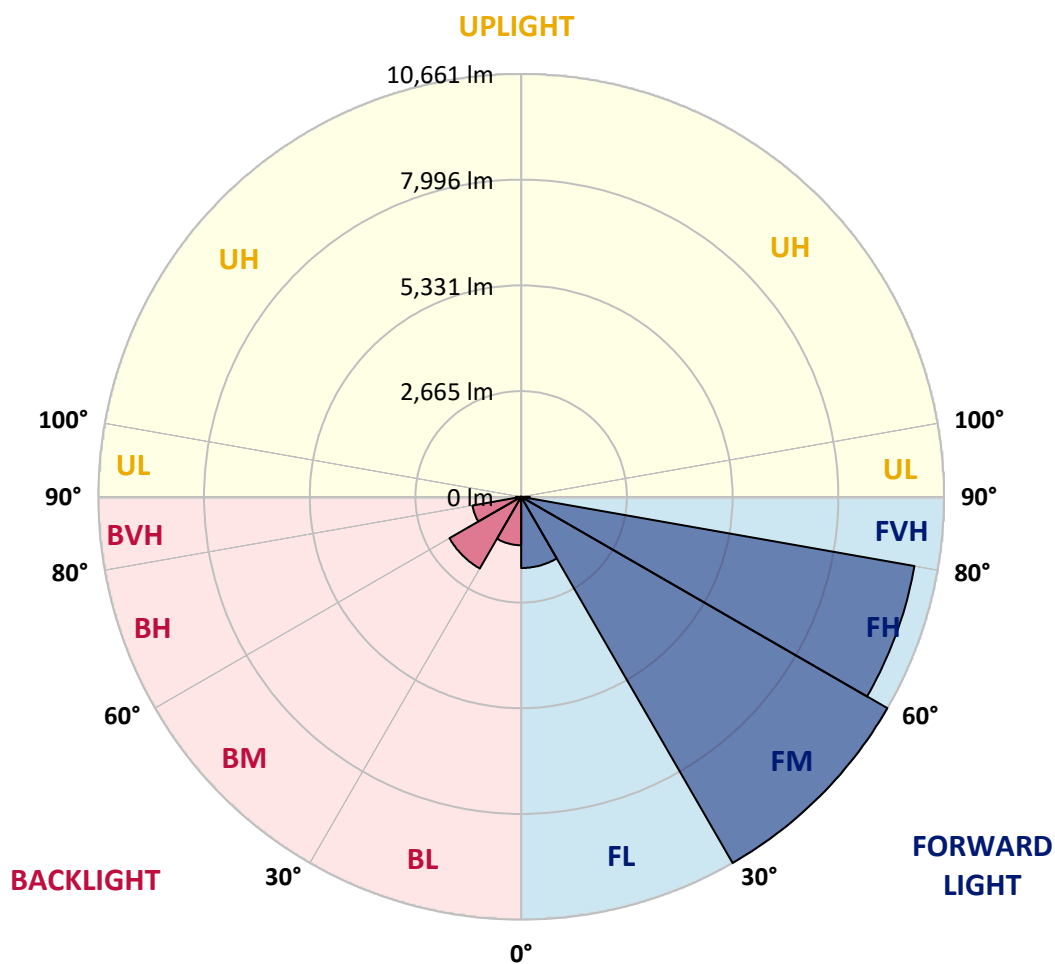
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.5	6.5			
FM	(30°-60°)	10661.4	38.9			
FH	(60°-80°)	10069.1	36.7			G4/12000
FVH	(80°-90°)	219.1	0.8			G2/225
BL	(0°-30°)	1220.6	4.4	B3/2500		
BM	(30°-60°)	2087.6	7.6	B2/2500		
BH	(60°-80°)	1248.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	130.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	3458.0	3481.4	3500.8	3519.0	3555.3	3615.0	3683.6	3739.4	3819.7	3835.2	3878.0
5°	3140.5	3140.5	3156.1	3183.3	3232.6	3322.0	3415.3	3539.8	3714.7	3756.3	3870.3
7.5°	2986.3	2987.5	2996.7	3020.0	3062.7	3144.5	3246.8	3393.3	3630.4	3699.2	3893.6
10°	3043.3	3030.5	3010.9	2999.2	3005.7	3053.7	3150.9	3314.3	3578.7	3666.7	3945.5
12.5°	3362.2	3337.6	3270.1	3180.7	3095.2	3060.2	3117.1	3276.6	3556.6	3659.0	4014.1
15°	3883.2	3872.9	3747.1	3561.8	3354.4	3180.7	3141.9	3262.4	3559.2	3668.1	4095.8
17.5°	4536.5	4522.2	4356.2	4086.8	3748.4	3410.1	3228.7	3274.1	3568.3	3683.6	4174.9
20°	5196.3	5152.1	4973.3	4651.8	4217.6	3722.5	3372.5	3303.9	3579.9	3700.5	4257.9
22.5°	5688.8	5652.4	5491.7	5179.3	4679.0	4084.1	3565.6	3355.7	3617.6	3749.8	4360.2
25°	6121.7	6124.2	5964.8	5662.8	5145.7	4467.8	3814.6	3494.4	3713.4	3850.9	4500.2
27.5°	6656.9	6625.8	6476.8	6177.4	5607.0	4855.4	4115.2	3684.9	3856.0	3994.7	4684.3
30°	7297.2	7275.2	7102.8	6763.2	6119.1	5271.4	4458.8	3906.6	4040.1	4184.0	4925.3
32.5°	8050.3	8040.0	7861.1	7424.2	6710.1	5761.3	4861.8	4199.5	4314.8	4463.9	5271.4
35°	8934.2	8935.6	8724.4	8199.4	7356.9	6331.7	5319.4	4576.7	4649.2	4804.7	5683.5
37.5°	9478.7	9544.8	9465.6	8930.5	8089.2	6969.3	5913.0	5076.9	5030.3	5187.2	6125.5
40°	9595.2	9675.7	9925.7	9653.6	8908.4	7671.8	6439.2	5557.8	5499.6	5691.4	6694.6
42.5°	9432.1	9543.5	10072.3	10264.2	9778.0	8537.6	7146.8	6272.0	6198.2	6456.0	7402.2
45°	9334.8	9417.7	10029.6	10581.6	10532.4	9516.3	8047.7	7168.9	7141.7	7480.0	8218.8
47.5°	9166.3	9241.4	9829.9	10655.5	10975.6	10413.2	9130.0	8265.5	8318.6	8761.9	9140.4
50°	9257.0	9288.1	9606.9	10467.6	11104.0	11070.2	10339.3	9535.7	9717.2	10270.6	10183.7
52.5°	9244.1	9324.4	9581.1	10159.2	11120.9	11476.0	11530.4	10952.3	11334.8	11969.8	11341.2
55°	7473.6	7621.3	9276.4	10081.4	11180.5	11874.0	12590.7	12445.5	13158.4	13898.5	12647.8
57.5°	7136.5	7229.9	8147.6	10244.7	11496.7	12633.4	13770.2	14089.0	15281.4	16140.8	14239.3
60°	7070.3	7185.8	8135.9	10444.3	12138.3	13871.2	15518.6	16078.6	17864.7	18805.7	16085.0
62.5°	6864.3	6988.8	8059.4	10418.3	13049.5	15583.4	17757.1	18193.9	20314.3	21229.4	17628.8
65°	6211.1	6327.7	7435.9	9999.7	13663.9	17411.0	20406.4	20132.8	22248.3	22936.5	18398.7
66°	5764.0	5877.9	6944.7	9507.2	13521.3	17929.5	21344.8	20733.0	22681.1	23220.4	18248.4
67.5°	4946.0	5035.5	5990.8	8404.1	12763.1	18074.6	22134.2	21184.1	22726.5	22917.0	17388.9
70°	3125.1	3150.9	3893.6	5801.5	9661.4	15675.5	20932.7	20064.3	20852.2	20336.4	14577.7
72.5°	1355.8	1346.7	1869.0	2951.3	5469.7	10518.2	16932.8	16555.6	16357.2	15180.4	10204.5
75°	754.3	764.7	970.8	1370.0	2222.9	5166.5	11076.8	10599.8	8949.9	7636.9	4627.2
77.5°	605.3	619.5	804.9	972.1	998.0	1801.6	5183.3	4217.6	2539.1	2037.5	1285.8
80°	478.2	504.2	702.5	756.9	672.7	742.6	1674.6	1338.9	1004.5	921.6	666.3
82.5°	378.5	396.6	602.7	572.8	470.5	500.3	802.3	781.5	653.3	594.9	384.9
85°	272.2	305.9	495.2	431.6	308.4	336.9	532.7	510.7	374.5	305.9	169.8
87.5°	111.5	145.2	349.9	286.5	172.4	156.8	265.7	250.2	177.5	129.6	84.2
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°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	3905.3	3936.4	3976.6	4001.2	4014.1	4023.3	4037.4	4036.1	4040.1	4041.4	4046.5
5°	3931.1	3983.0	4041.4	4056.9	4056.9	4042.7	4028.4	4005.1	3995.9	3993.4	3995.9
7.5°	3998.6	4055.6	4106.2	4088.1	4049.1	3992.2	3918.2	3853.5	3818.4	3806.7	3804.2
10°	4084.1	4152.8	4173.6	4104.9	3990.8	3853.5	3706.9	3600.6	3539.8	3522.9	3517.7
12.5°	4187.8	4252.6	4224.1	4078.9	3867.7	3646.0	3443.9	3274.1	3147.0	3106.9	3104.3
15°	4301.9	4352.5	4252.6	3998.6	3683.6	3357.0	2996.7	2703.7	2545.6	2495.1	2491.2
17.5°	4408.2	4434.1	4235.8	3858.6	3412.7	2883.9	2405.7	2180.0	2125.6	2138.6	2141.3
20°	4498.9	4498.9	4178.7	3657.7	2986.3	2260.5	1958.5	1954.5	1993.4	2032.3	2040.1
22.5°	4598.7	4539.0	4078.9	3373.8	2382.3	1849.5	1805.5	1841.8	1886.0	1928.7	1935.1
25°	4721.8	4571.5	3940.2	2943.6	1872.9	1679.8	1696.7	1726.4	1748.4	1775.7	1779.7
27.5°	4859.2	4612.9	3757.5	2351.2	1625.3	1573.6	1586.5	1596.9	1594.2	1604.6	1607.2
30°	5023.8	4660.9	3507.3	1838.0	1523.0	1482.7	1459.4	1450.4	1450.4	1467.3	1473.7
32.5°	5244.2	4732.2	3148.3	1574.8	1473.7	1417.9	1342.8	1309.2	1322.0	1379.1	1392.1
35°	5486.6	4808.7	2662.3	1485.4	1463.3	1388.1	1271.6	1209.3	1210.6	1263.7	1280.6
37.5°	5751.0	4905.8	2129.6	1468.6	1486.7	1389.4	1234.0	1148.5	1113.4	1113.4	1119.9
40°	6089.2	5005.7	1723.9	1480.1	1535.9	1405.0	1214.5	1100.5	1001.9	1004.5	1009.7
42.5°	6530.0	5091.3	1506.1	1504.8	1595.5	1425.8	1213.3	1036.9	951.3	1009.7	1062.9
45°	7019.9	5134.0	1410.2	1526.9	1643.5	1438.7	1192.4	1026.5	957.8	1131.5	1232.7
47.5°	7583.6	5109.4	1357.1	1534.6	1655.2	1438.7	1169.1	1051.2	1003.2	1310.3	1428.3
50°	8202.0	5038.1	1305.2	1519.0	1651.2	1436.1	1191.2	1075.7	1020.1	1341.4	1423.2
52.5°	8929.1	4978.5	1250.8	1485.4	1624.0	1421.9	1217.0	1065.4	967.0	1219.7	1276.7
55°	9758.6	4995.4	1189.9	1437.5	1581.3	1394.7	1208.0	1024.0	911.2	1074.4	1109.5
57.5°	10818.9	5196.3	1117.2	1376.4	1523.0	1349.3	1175.6	1004.5	894.3	974.7	995.5
60°	12002.2	5546.2	1026.5	1315.6	1450.4	1276.7	1150.9	1013.6	902.2	967.0	977.4
62.5°	12870.6	5749.7	948.8	1226.1	1351.9	1196.4	1119.9	1025.3	922.8	994.1	991.5
65°	13106.5	5415.2	851.5	1095.3	1218.4	1112.0	1081.0	1038.2	931.9	1016.2	1004.5
66°	12776.0	5055.0	808.7	1034.3	1150.9	1070.6	1061.6	1036.9	928.0	1018.8	999.2
67.5°	11973.7	4316.2	734.9	944.9	1043.4	1008.4	1030.5	1025.3	917.7	1016.2	988.9
70°	9765.0	2944.9	628.7	786.7	868.4	887.8	970.8	983.8	884.0	970.8	911.2
72.5°	6822.9	1793.8	556.0	610.4	702.5	756.9	889.2	926.7	838.6	847.7	790.6
75°	3297.3	952.6	504.2	473.1	545.6	632.5	790.6	849.0	767.3	709.0	688.3
77.5°	1027.8	582.0	427.7	381.1	427.7	510.7	661.0	743.9	683.1	593.6	585.8
80°	552.2	427.7	329.2	305.9	338.2	400.6	519.7	620.8	587.2	532.7	475.8
82.5°	364.2	277.4	243.6	237.2	258.0	305.9	386.2	514.6	514.6	456.2	331.8
85°	187.9	169.8	167.1	167.1	180.2	203.4	263.1	396.6	422.5	241.1	199.6
87.5°	93.3	97.2	90.6	94.6	101.1	99.8	125.7	199.6	238.5	146.5	121.9
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)