

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: P193242

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193242
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-04-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26046.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

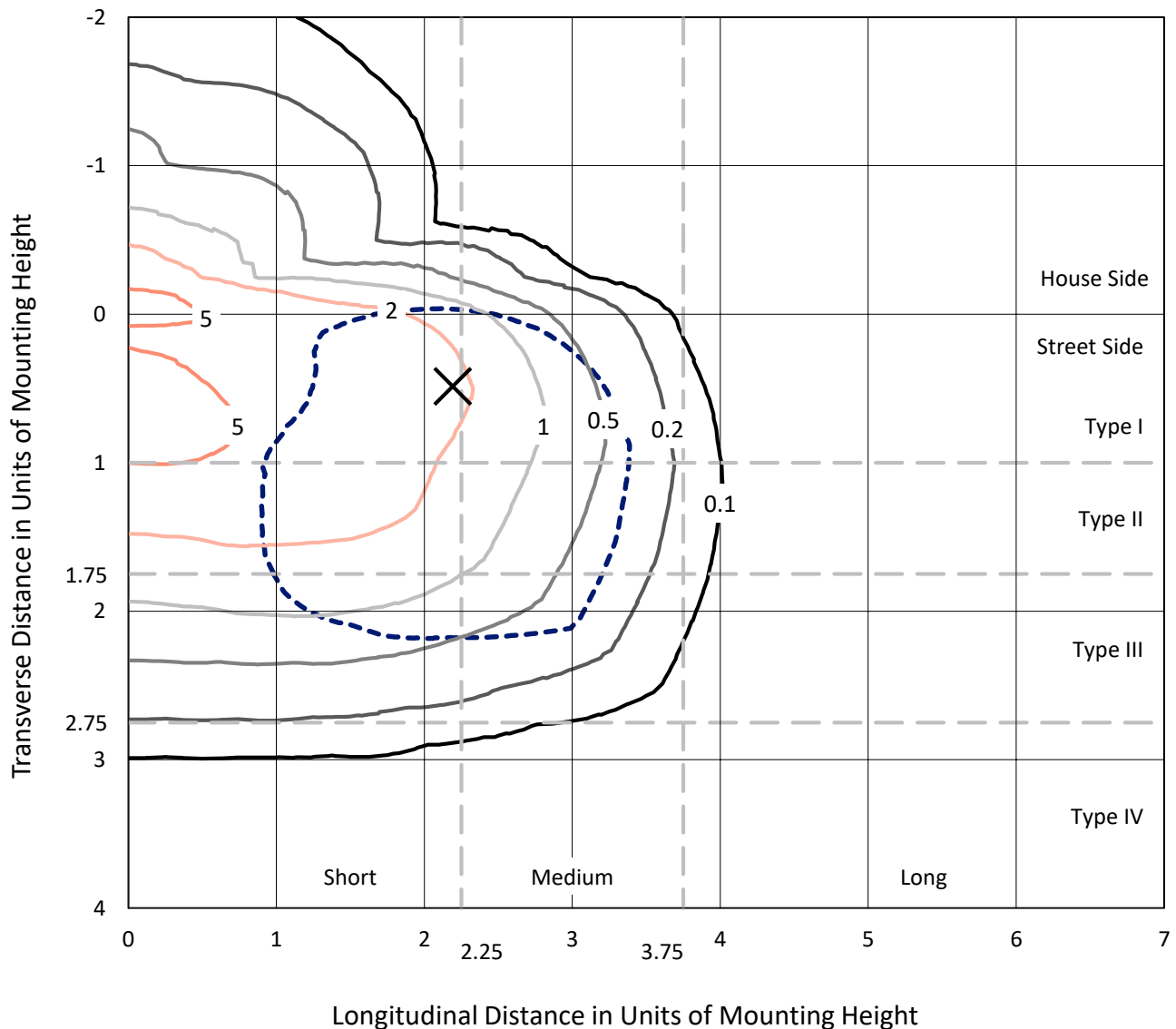


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

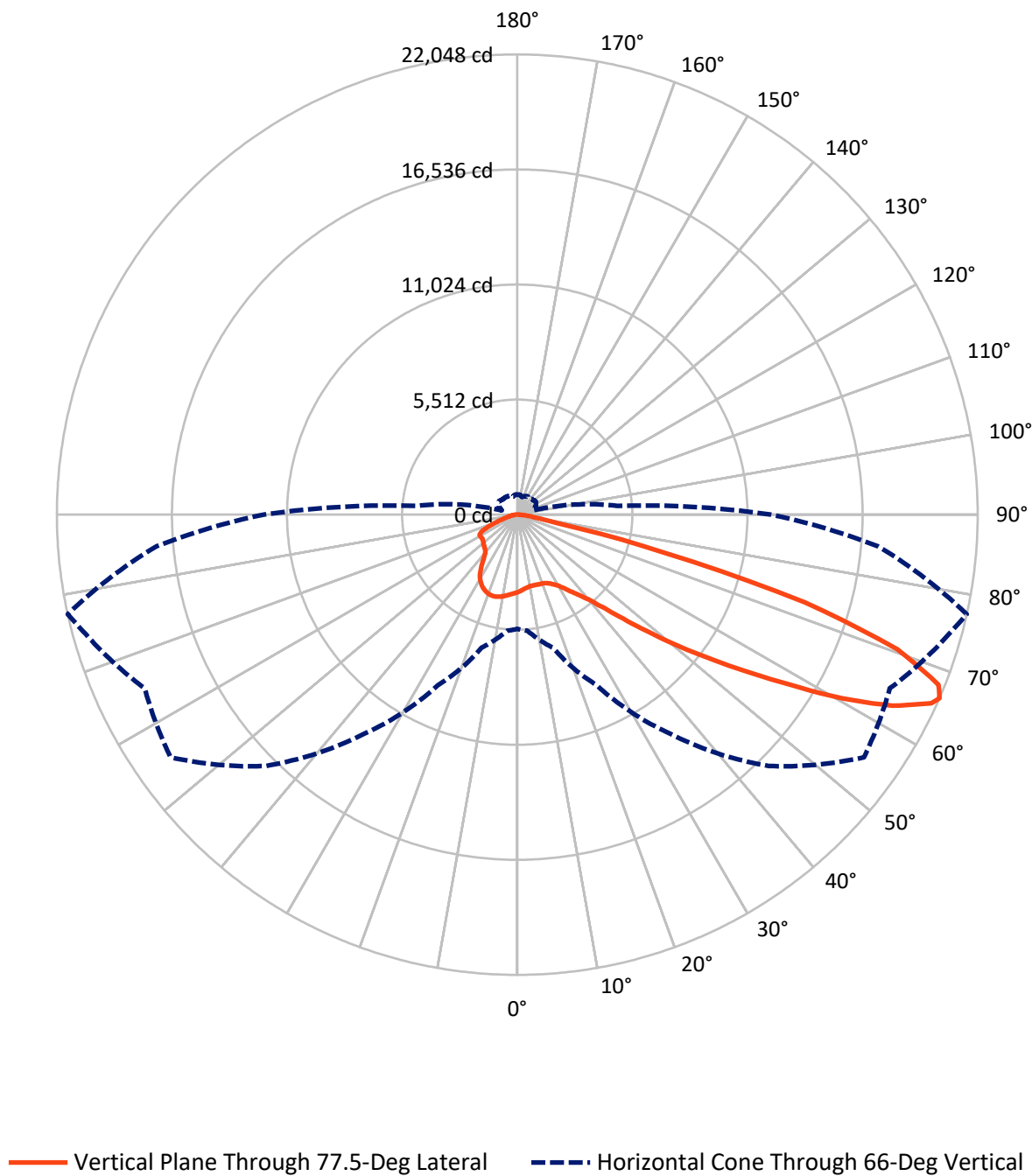


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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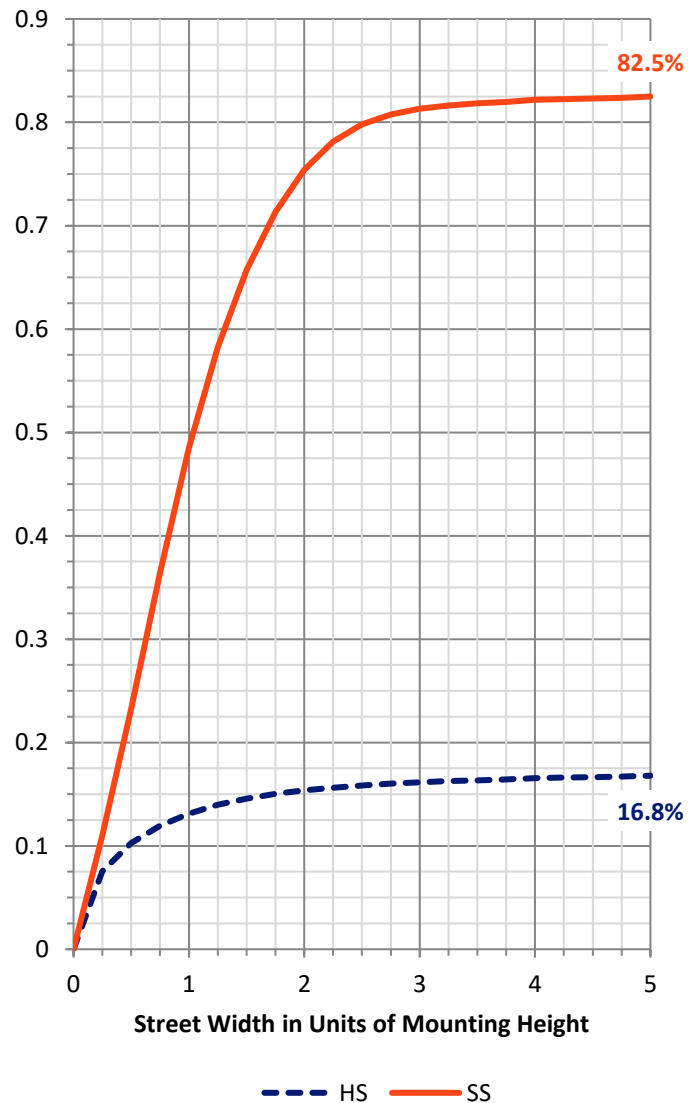
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4449.9	0.0	4449.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	21596.5	0.0	21596.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	26046.3	0.0	26046.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	1.3
10°-20°	935.5	3.6
20°-30°	1596.6	6.1
30°-40°	2555.9	9.8
40°-50°	3948.7	15.2
50°-60°	5600.5	21.5
60°-70°	7492.0	28.8
70°-80°	3253.6	12.5
80°-90°	331.8	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°	26046.3	100.0
0°-180°	26046.3	100.0

Coefficient of Utilization



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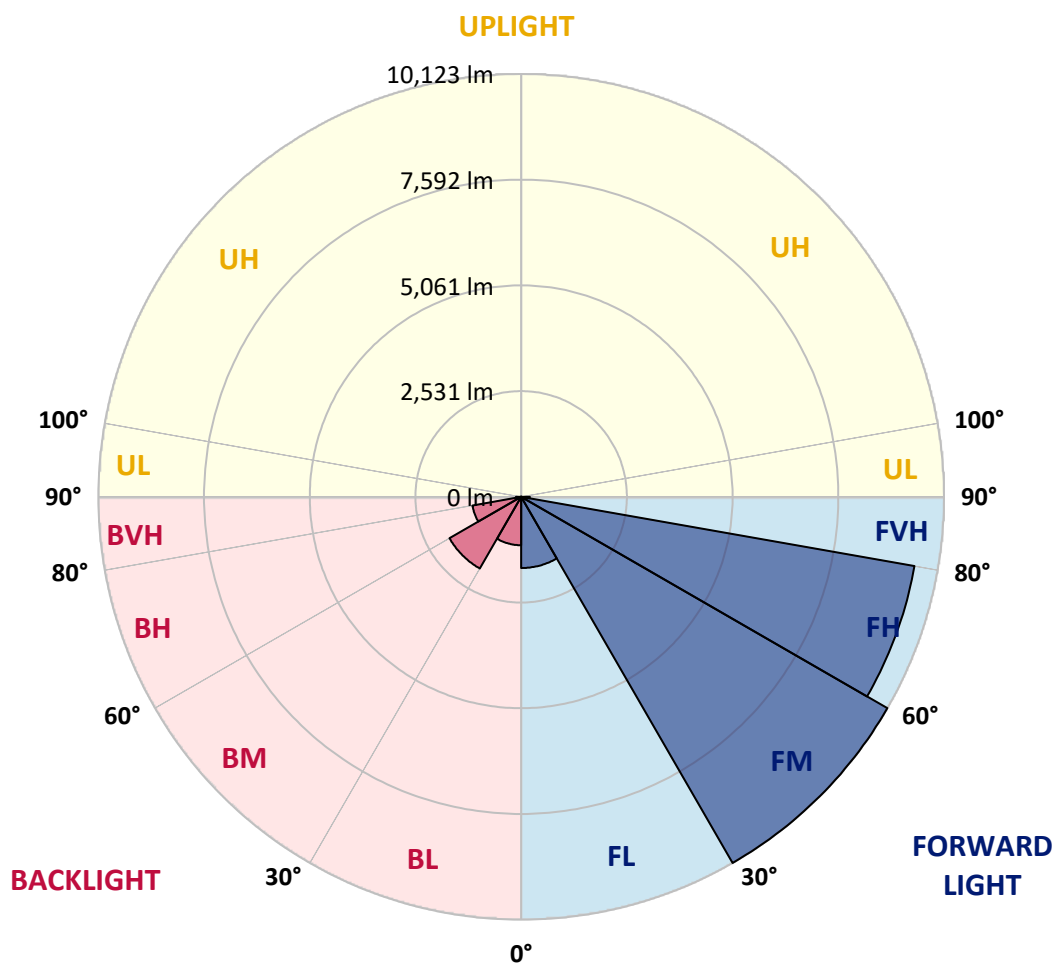
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.8	6.5			
FM	(30°-60°)	10123.0	38.9			
FH	(60°-80°)	9560.6	36.7			G4/12000
FVH	(80°-90°)	208.1	0.8			G2/225
BL	(0°-30°)	1158.9	4.4	B3/2500		
BM	(30°-60°)	1982.2	7.6	B2/2500		
BH	(60°-80°)	1185.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	123.7	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°	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7
2.5°	3283.5	3305.6	3324.1	3341.2	3375.8	3432.4	3497.6	3550.5	3626.9	3641.6	3682.1
5°	2981.9	2981.9	2996.7	3022.5	3069.3	3154.2	3242.9	3361.1	3527.1	3566.6	3674.8
7.5°	2835.5	2836.7	2845.3	2867.5	2908.1	2985.6	3082.9	3221.9	3447.1	3512.3	3697.0
10°	2889.6	2877.4	2858.9	2847.9	2854.0	2899.5	2991.7	3146.8	3397.9	3481.5	3746.2
12.5°	3192.3	3168.9	3105.0	3020.0	2938.8	2905.6	2959.9	3111.1	3376.9	3474.2	3811.4
15°	3687.1	3677.2	3557.9	3381.9	3185.0	3020.0	2983.3	3097.6	3379.4	3482.8	3889.0
17.5°	4307.3	4293.8	4136.3	3880.4	3559.1	3237.9	3065.6	3108.7	3388.0	3497.6	3964.0
20°	4933.8	4892.0	4722.0	4417.0	4004.6	3534.5	3202.2	3137.0	3399.2	3513.6	4042.8
22.5°	5401.4	5367.1	5214.4	4917.8	4442.7	3877.8	3385.6	3186.2	3434.8	3560.3	4140.1
25°	5812.5	5815.0	5663.6	5376.8	4885.7	4242.1	3621.8	3317.8	3525.9	3656.4	4272.9
27.5°	6320.7	6291.2	6149.6	5865.4	5323.8	4610.0	3907.4	3498.8	3661.3	3792.9	4447.6
30°	6928.6	6907.8	6744.1	6421.7	5810.1	5005.1	4233.6	3709.3	3836.0	3972.6	4676.7
32.5°	7643.8	7634.0	7464.0	7049.3	6371.2	5470.4	4616.3	3987.4	4096.9	4238.5	5005.1
35°	8483.1	8484.3	8283.7	7785.3	6985.3	6011.9	5050.7	4345.6	4414.4	4562.1	5396.6
37.5°	8999.9	9062.7	8987.6	8479.4	7680.7	6617.4	5614.4	4820.5	4776.3	4925.2	5816.2
40°	9110.7	9186.9	9424.4	9166.1	8458.5	7284.5	6114.0	5277.1	5221.7	5403.9	6356.4
42.5°	8955.7	9061.5	9563.6	9745.7	9284.2	8106.5	6786.0	5955.2	5885.1	6130.0	7028.4
45°	8863.3	8942.1	9523.0	10047.3	10000.5	9035.6	7641.3	6806.9	6781.0	7102.3	7803.8
47.5°	8703.4	8774.7	9333.5	10117.4	10421.3	9887.3	8668.8	7848.0	7898.5	8319.3	8678.8
50°	8789.5	8819.1	9121.8	9939.0	10543.2	10511.2	9817.2	9054.1	9226.4	9751.9	9669.5
52.5°	8777.3	8853.5	9097.2	9646.1	10559.3	10896.4	10948.1	10399.2	10762.2	11365.2	10768.5
55°	7096.1	7236.4	8807.9	9572.2	10615.8	11274.3	11954.8	11816.9	12493.8	13196.6	12008.9
57.5°	6776.2	6864.8	7736.0	9727.3	10916.1	11995.5	13074.7	13377.4	14509.7	15325.6	13520.2
60°	6713.3	6822.9	7724.9	9916.8	11525.3	13170.6	14734.9	15266.6	16962.4	17855.9	15272.7
62.5°	6517.7	6635.9	7652.3	9892.3	12390.4	14796.4	16860.3	17275.0	19288.4	20157.2	16738.4
65°	5897.4	6008.1	7060.5	9494.6	12973.8	16531.7	19375.8	19116.1	21124.6	21778.1	17469.5
66°	5472.8	5581.1	6594.1	9027.0	12838.4	17024.0	20266.8	19685.9	21535.6	22047.5	17326.7
67.5°	4696.3	4781.1	5688.1	7979.7	12118.5	17161.8	21016.2	20114.2	21578.7	21759.6	16510.8
70°	2967.2	2991.7	3697.0	5508.6	9173.5	14883.9	19875.5	19050.9	19799.1	19309.3	13841.4
72.5°	1287.3	1278.7	1774.6	2802.3	5193.4	9987.0	16077.6	15719.4	15531.2	14413.7	9689.1
75°	716.3	726.1	921.8	1300.8	2110.6	4905.5	10517.4	10064.5	8497.8	7251.1	4393.6
77.5°	574.7	588.3	764.3	923.0	947.6	1710.7	4921.5	4004.6	2411.0	1934.7	1220.9
80°	454.1	478.8	667.0	718.7	638.7	705.2	1590.0	1271.3	953.8	875.0	632.6
82.5°	359.4	376.6	572.3	544.0	446.8	475.1	761.7	742.1	620.3	564.9	365.5
85°	258.4	290.4	470.2	409.8	293.0	320.0	505.8	484.9	355.6	290.4	161.2
87.5°	105.9	137.8	332.2	271.9	163.7	148.9	252.3	237.5	168.6	123.0	80.0
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°	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7	3711.7
2.5°	3708.0	3737.5	3775.7	3799.1	3811.4	3820.0	3833.6	3832.4	3836.0	3837.3	3842.2
5°	3732.7	3781.9	3837.3	3852.1	3852.1	3838.5	3824.9	3802.8	3794.1	3791.8	3794.1
7.5°	3796.6	3850.9	3898.8	3881.6	3844.7	3790.5	3720.4	3658.8	3625.6	3614.6	3612.0
10°	3877.8	3943.0	3962.9	3897.6	3789.2	3658.8	3519.8	3418.8	3361.1	3345.0	3340.0
12.5°	3976.3	4037.9	4010.8	3872.9	3672.3	3461.9	3269.9	3108.7	2988.1	2949.9	2947.5
15°	4084.6	4132.6	4037.9	3796.6	3497.6	3187.4	2845.3	2567.1	2417.1	2369.1	2365.4
17.5°	4185.5	4210.2	4021.9	3663.7	3240.4	2738.2	2284.2	2070.0	2018.3	2030.6	2033.1
20°	4271.7	4271.7	3967.7	3473.1	2835.5	2146.3	1859.6	1855.9	1892.8	1929.7	1937.0
22.5°	4366.4	4309.8	3872.9	3203.5	2262.0	1756.2	1714.4	1748.8	1790.6	1831.3	1837.4
25°	4483.4	4340.7	3741.2	2794.9	1778.3	1594.9	1610.9	1639.2	1660.2	1686.0	1689.7
27.5°	4613.8	4379.9	3567.8	2232.5	1543.3	1494.0	1506.3	1516.2	1513.8	1523.6	1526.1
30°	4770.2	4425.5	3330.2	1745.1	1446.0	1408.0	1385.7	1377.1	1377.1	1393.2	1399.3
32.5°	4979.3	4493.2	2989.4	1495.3	1399.3	1346.4	1274.9	1243.0	1255.3	1309.5	1321.7
35°	5209.5	4565.8	2527.8	1410.3	1389.4	1318.1	1207.4	1148.2	1149.4	1199.8	1215.9
37.5°	5460.6	4658.2	2022.0	1394.3	1411.6	1319.3	1171.6	1090.4	1057.2	1057.2	1063.3
40°	5781.7	4752.9	1636.8	1405.4	1458.4	1334.0	1153.1	1044.8	951.3	953.8	958.7
42.5°	6200.1	4834.0	1430.1	1428.8	1515.0	1353.7	1151.9	984.5	903.3	958.7	1009.1
45°	6665.4	4874.7	1339.0	1449.8	1560.5	1366.1	1132.3	974.7	909.5	1074.3	1170.3
47.5°	7200.7	4851.3	1288.5	1457.1	1571.5	1366.1	1110.1	998.1	952.5	1244.3	1356.2
50°	7787.8	4783.7	1239.3	1442.3	1567.9	1363.5	1131.0	1021.5	968.6	1273.8	1351.3
52.5°	8478.2	4727.0	1187.6	1410.3	1542.0	1350.0	1155.6	1011.6	918.1	1158.0	1212.2
55°	9265.7	4743.1	1129.7	1364.8	1501.4	1324.2	1147.0	972.2	865.2	1020.3	1053.5
57.5°	10272.4	4933.8	1060.8	1307.0	1446.0	1281.2	1116.2	953.8	849.2	925.4	945.2
60°	11396.1	5266.1	974.7	1249.2	1377.1	1212.2	1092.8	962.3	856.6	918.1	927.9
62.5°	12220.6	5459.2	900.9	1164.2	1283.6	1136.0	1063.3	973.5	876.3	943.9	941.5
65°	12444.6	5141.7	808.5	1039.9	1156.8	1055.9	1026.4	985.7	884.9	964.9	953.8
66°	12130.8	4799.6	768.0	982.1	1092.8	1016.5	1007.9	984.5	881.1	967.3	948.8
67.5°	11369.0	4098.2	697.8	897.1	990.7	957.4	978.4	973.5	871.4	964.9	939.0
70°	9272.0	2796.1	596.9	747.0	824.6	843.1	921.8	934.0	839.3	921.8	865.2
72.5°	6478.3	1703.3	527.9	579.6	667.0	718.7	844.2	880.0	796.3	804.9	750.7
75°	3130.9	904.5	478.8	449.2	518.1	600.6	750.7	806.2	728.5	673.1	653.5
77.5°	975.9	552.6	406.1	361.8	406.1	484.9	627.7	706.4	648.6	563.7	556.2
80°	524.2	406.1	312.6	290.4	321.2	380.3	493.6	589.5	557.6	505.8	451.7
82.5°	345.8	263.4	231.4	225.2	245.0	290.4	366.8	488.6	488.6	433.2	315.1
85°	178.4	161.2	158.8	158.8	171.1	193.2	249.8	376.6	401.2	228.9	189.6
87.5°	88.6	92.4	86.1	89.8	96.0	94.7	119.4	189.6	226.5	139.1	115.7
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)