

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: P452940

Luminaire Tested: **GALN-SA3D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 18779 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184
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: 24 FT

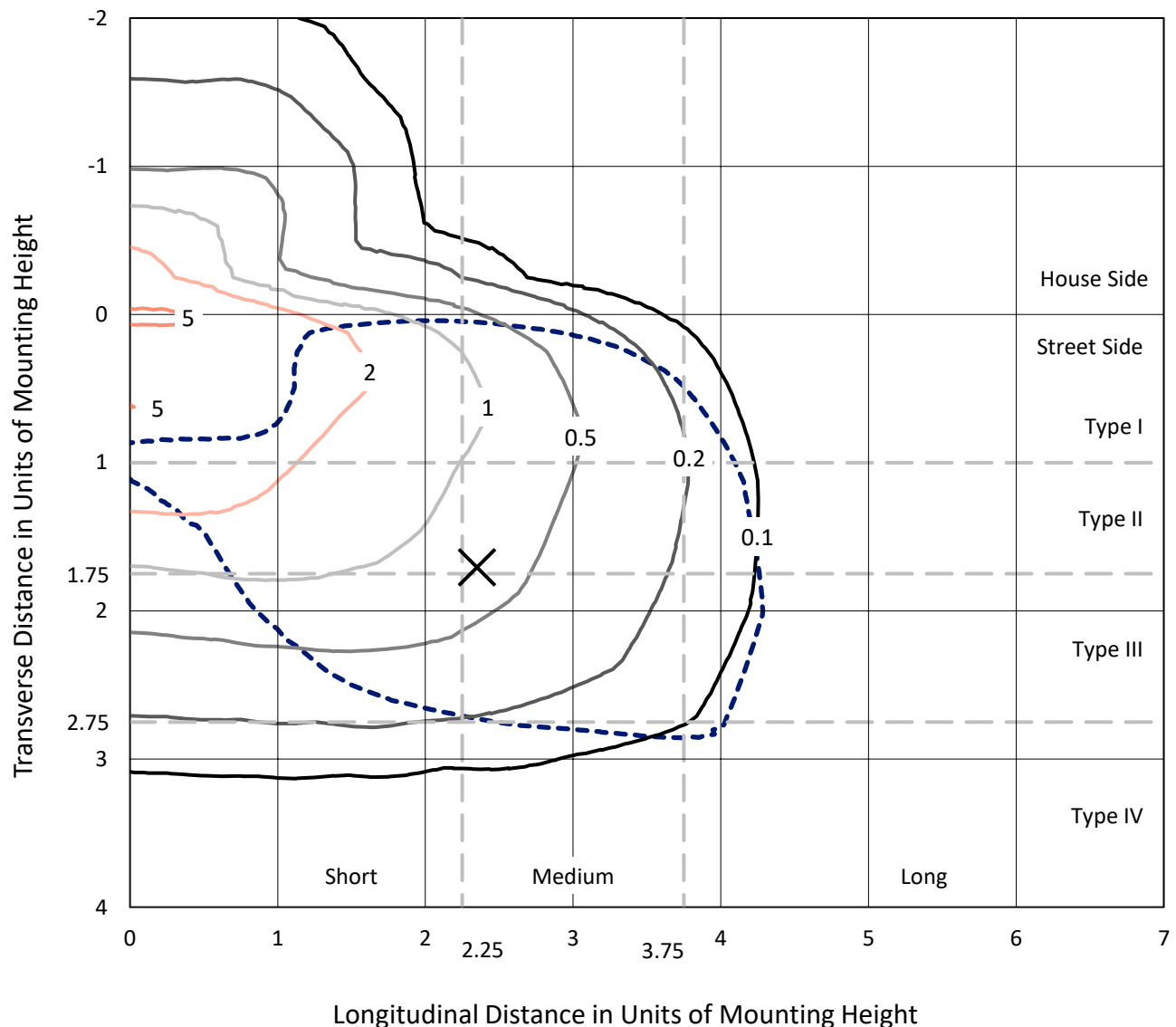


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

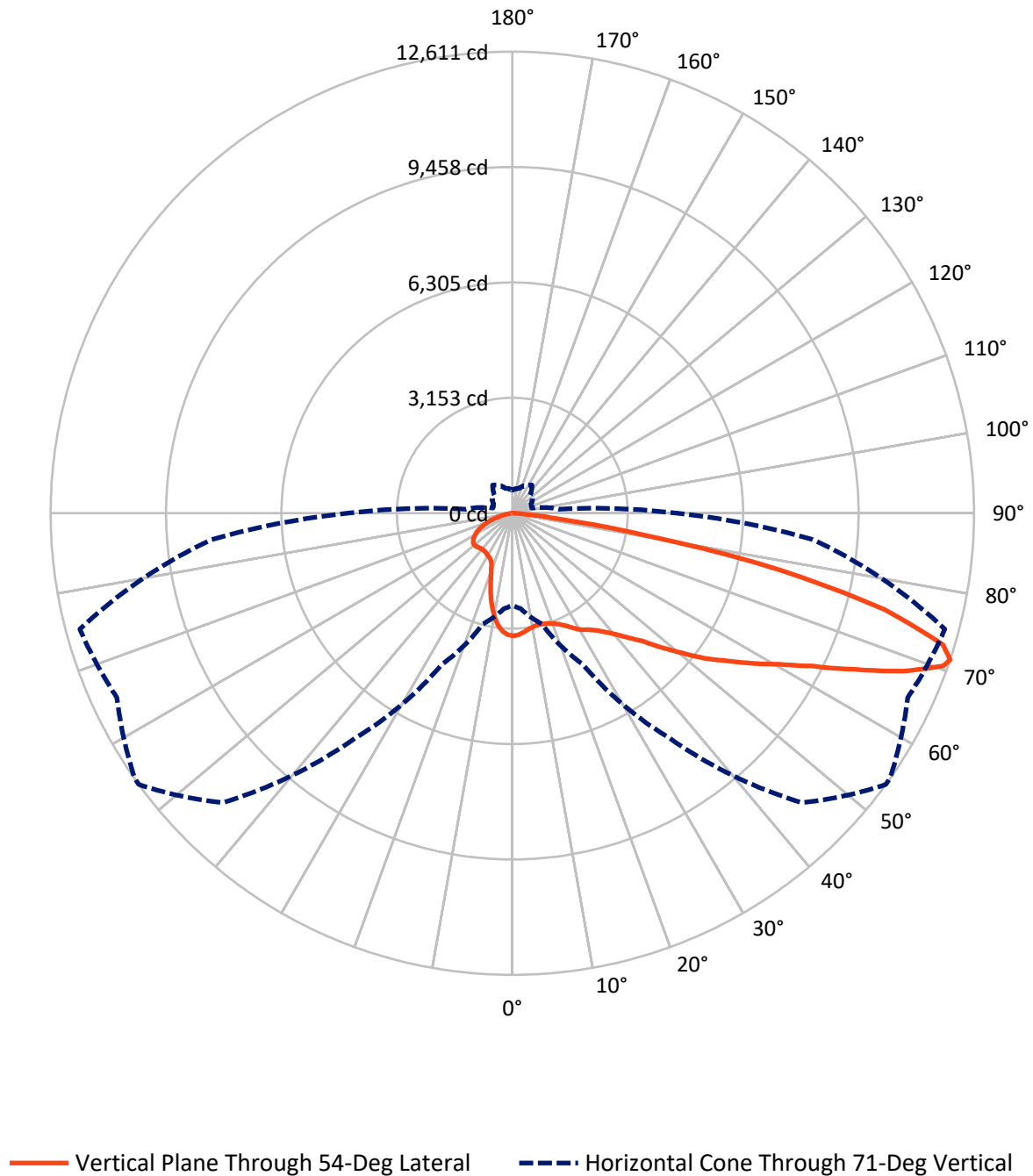


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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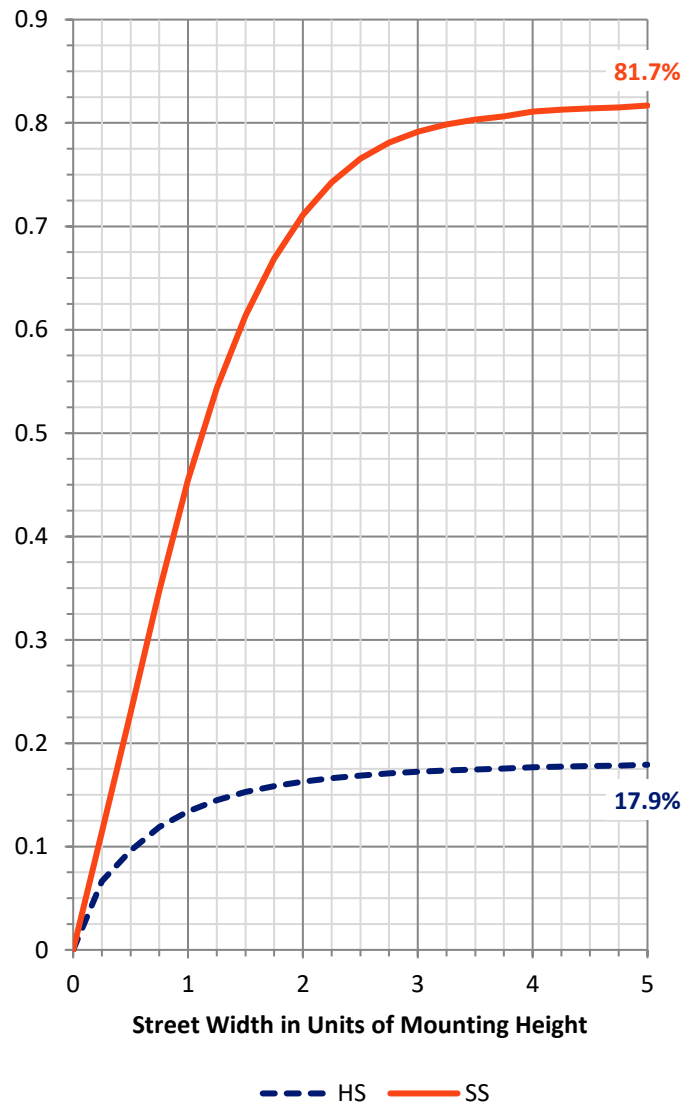
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3390.4	0.0	3390.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15388.6	0.0	15388.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	18779.0	0.0	18779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.6
10°-20°	788.4	4.2
20°-30°	1312.7	7.0
30°-40°	1941.1	10.3
40°-50°	2734.0	14.6
50°-60°	3661.0	19.5
60°-70°	4614.4	24.6
70°-80°	3151.6	16.8
80°-90°	277.2	1.5
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°	18779.0	100.0
0°-180°	18779.0	100.0

Coefficient of Utilization



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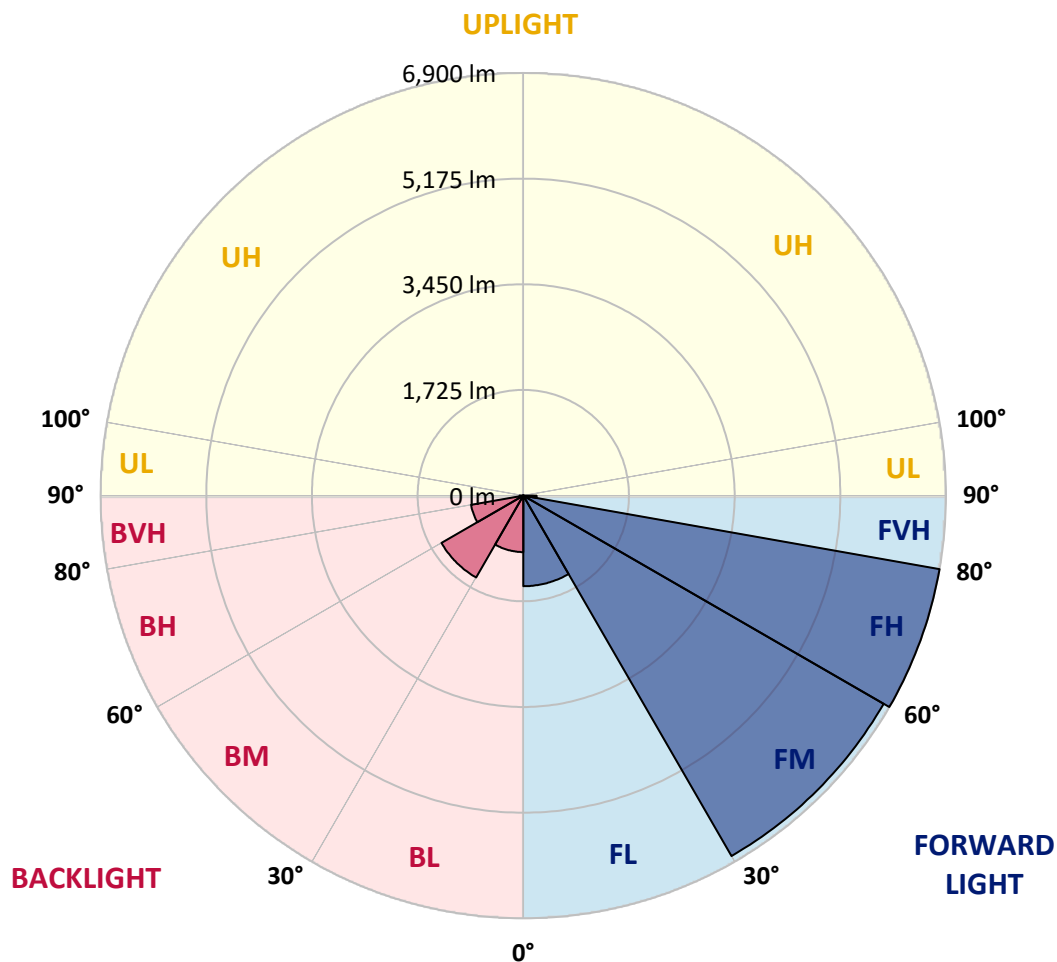
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1478.2	7.9			
FM	(30°-60°)	6793.6	36.2			
FH	(60°-80°)	6900.1	36.7			G3/7500
FVH	(80°-90°)	216.6	1.2			G2/225
BL	(0°-30°)	921.5	4.9	B2/1000		
BM	(30°-60°)	1542.5	8.2	B2/2500		
BH	(60°-80°)	865.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	60.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5
2.5°	3236.8	3252.1	3256.1	3266.3	3287.6	3304.8	3322.0	3320.0	3344.4	3354.5	3363.6
5°	3092.8	3096.9	3112.1	3132.4	3169.9	3217.6	3264.2	3265.2	3325.1	3372.8	3396.1
7.5°	2987.3	3000.5	3010.6	3031.9	3071.5	3123.2	3197.3	3203.4	3309.9	3404.2	3453.9
10°	2918.3	2933.5	2944.7	2971.1	3010.6	3068.5	3148.6	3159.8	3298.7	3453.9	3541.2
12.5°	2855.4	2870.7	2880.8	2915.3	2967.0	3038.0	3128.3	3141.5	3302.8	3511.7	3636.5
15°	2894.0	2906.2	2902.1	2912.2	2946.7	3027.9	3136.4	3149.6	3318.0	3567.5	3730.8
17.5°	3065.4	3075.6	3042.1	3003.5	2987.3	3047.2	3161.8	3176.0	3348.4	3625.3	3827.2
20°	3318.0	3345.4	3272.3	3186.1	3108.0	3116.1	3214.5	3229.7	3391.0	3683.2	3925.6
22.5°	3646.6	3666.9	3577.7	3435.7	3291.6	3217.6	3293.6	3302.8	3454.9	3758.2	4033.1
25°	4033.1	4045.3	3921.5	3739.0	3531.0	3391.0	3402.2	3418.4	3560.4	3843.4	4128.5
27.5°	4408.4	4447.0	4304.0	4080.8	3806.9	3573.6	3551.3	3561.4	3675.0	3891.1	4194.4
30°	4853.7	4850.7	4699.6	4440.9	4089.9	3772.4	3692.3	3690.3	3736.9	3914.4	4242.1
32.5°	5208.8	5250.4	5102.3	4820.3	4413.5	3978.3	3789.7	3785.6	3784.6	3955.0	4313.1
35°	5612.5	5618.6	5482.6	5198.6	4763.5	4237.0	3925.6	3905.3	3882.0	4042.2	4409.5
37.5°	5973.6	6002.0	5877.2	5558.7	5107.3	4505.8	4112.2	4099.1	4028.0	4193.4	4563.6
40°	6255.6	6276.9	6201.8	5898.5	5446.1	4795.9	4349.6	4325.3	4239.0	4440.9	4769.6
42.5°	6347.9	6391.5	6420.9	6271.8	5835.6	5139.8	4641.7	4611.3	4545.4	4816.2	5006.9
45°	6355.0	6424.0	6579.2	6586.3	6227.2	5551.6	4982.6	4961.3	4956.2	5297.0	5340.6
47.5°	6301.2	6371.2	6631.9	6772.9	6576.1	5967.5	5474.5	5441.1	5444.1	5891.4	5714.9
50°	6171.4	6254.6	6571.1	6892.6	6849.0	6399.6	5993.9	5982.7	6045.6	6570.1	6103.4
52.5°	5926.9	6027.4	6508.2	6967.7	7051.9	6771.9	6584.3	6552.8	6712.1	7306.5	6528.5
55°	5250.4	5401.5	6277.9	7009.3	7244.6	7128.0	7115.8	7172.6	7383.6	8109.9	6996.1
57.5°	4897.4	5011.0	5777.8	7016.4	7488.1	7541.8	7736.6	7750.8	8120.0	8962.9	7524.6
60°	4704.6	4805.1	5504.0	6969.7	7827.9	8054.1	8371.6	8422.3	8839.2	9887.0	8072.3
62.5°	4536.2	4622.5	5339.6	6808.4	8211.3	8813.8	9194.2	9218.6	9655.8	10907.5	8613.0
65°	4139.6	4238.0	5008.9	6647.1	8542.0	9763.3	10285.7	10257.3	10525.1	11787.9	8951.8
67.5°	3605.1	3729.8	4391.2	6090.3	8705.3	10801.0	11515.1	11479.6	11383.2	12365.1	9049.2
70°	2922.4	2989.3	3601.0	5127.6	8053.1	11345.7	12485.8	12448.3	11914.7	12441.2	8588.6
71°	2514.6	2619.1	3135.4	4554.5	7510.4	11179.3	12610.6	12600.5	11915.8	12231.2	8241.7
72.5°	1962.8	2026.7	2483.2	3529.0	6383.4	10233.9	12302.2	12340.8	11657.1	11648.0	7526.6
75°	1241.6	1270.0	1558.1	2077.4	3502.6	7247.6	10501.7	10606.2	10350.6	9534.0	5597.3
77.5°	721.2	757.7	933.2	1224.3	1513.4	3933.7	7514.4	7628.0	7191.9	5249.3	2291.5
80°	419.9	460.5	614.7	711.1	694.8	1459.7	3826.2	4019.9	3114.1	1325.8	643.1
82.5°	233.3	260.7	432.1	433.1	370.2	476.8	1204.1	1259.8	888.6	534.6	262.7
85°	169.4	191.7	279.0	252.6	177.5	204.9	418.9	439.2	359.1	225.2	85.2
87.5°	59.8	85.2	153.2	121.7	48.7	42.6	120.7	98.4	91.3	62.9	19.3
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°	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5	3350.5
2.5°	3368.7	3370.7	3360.6	3342.3	3324.1	3300.7	3274.4	3254.1	3245.0	3243.9	3242.9
5°	3405.2	3410.3	3371.8	3314.9	3252.1	3175.0	3109.0	3034.0	3014.7	2984.3	2993.4
7.5°	3464.1	3461.0	3384.9	3264.2	3117.1	2953.8	2815.9	2735.7	2652.6	2629.2	2630.3
10°	3548.3	3529.0	3384.9	3160.8	2915.3	2672.9	2480.1	2358.4	2292.5	2237.7	2217.4
12.5°	3637.5	3588.8	3352.5	3015.7	2655.6	2358.4	2151.5	1987.1	1944.5	1899.9	1900.9
15°	3722.7	3641.6	3288.6	2811.8	2375.6	2022.6	1821.8	1723.4	1710.2	1715.3	1714.3
17.5°	3799.8	3679.1	3191.2	2584.6	2049.0	1734.6	1628.1	1635.2	1670.7	1696.0	1699.1
20°	3877.9	3701.4	3046.1	2280.3	1740.7	1560.1	1564.2	1619.9	1673.7	1708.2	1713.3
22.5°	3952.0	3711.6	2875.7	1986.1	1517.5	1486.0	1545.9	1605.7	1658.5	1692.0	1697.0
25°	4000.7	3688.2	2634.3	1678.8	1407.9	1459.7	1522.6	1573.3	1617.9	1652.4	1660.5
27.5°	4013.8	3613.2	2335.1	1430.3	1357.2	1434.3	1492.1	1529.7	1564.2	1596.6	1602.7
30°	4006.7	3502.6	2006.4	1284.2	1327.8	1404.9	1449.5	1476.9	1518.5	1543.9	1548.9
32.5°	3995.6	3373.8	1663.6	1206.1	1303.5	1377.5	1403.9	1428.2	1427.2	1417.1	1424.2
35°	3999.6	3219.6	1385.6	1159.4	1282.2	1357.2	1379.5	1349.1	1261.9	1257.8	1253.8
37.5°	4020.9	3067.4	1183.8	1127.0	1271.0	1354.2	1366.4	1226.4	1149.3	1113.8	1104.6
40°	4075.7	2889.9	1050.9	1102.6	1270.0	1377.5	1306.5	1164.5	1016.4	947.4	942.3
42.5°	4148.8	2715.5	969.7	1087.4	1282.2	1413.0	1282.2	1077.3	916.0	875.4	869.3
45°	4257.3	2515.6	925.1	1080.3	1300.4	1426.2	1274.0	1013.4	875.4	842.9	842.9
47.5°	4380.0	2324.9	900.8	1075.2	1323.7	1417.1	1202.0	993.1	856.1	860.2	879.5
50°	4501.8	2159.6	882.5	1064.1	1344.0	1412.0	1172.6	992.1	861.2	912.9	947.4
52.5°	4642.8	2042.9	860.2	1045.8	1344.0	1379.5	1163.5	1012.3	875.4	890.6	905.8
55°	4813.2	2006.4	831.8	1006.3	1319.7	1298.4	1158.4	1041.8	885.5	850.0	856.1
57.5°	5038.4	2065.2	804.4	956.5	1263.9	1214.2	1156.4	1049.9	862.2	832.8	826.7
60°	5300.1	2181.9	796.3	905.8	1187.8	1142.2	1144.2	1026.5	829.8	799.3	804.4
62.5°	5483.7	2251.9	791.2	867.3	1104.6	1063.1	1114.8	998.1	815.6	789.2	794.2
65°	5483.7	2166.7	744.5	808.4	997.1	967.7	1079.3	962.6	797.3	766.9	761.8
67.5°	5275.7	1918.2	673.5	720.2	878.4	859.2	1029.6	920.0	769.9	746.6	734.4
70°	4734.0	1454.6	584.3	616.7	728.3	745.6	965.7	862.2	724.3	695.9	677.6
71°	4495.7	1266.9	546.7	564.0	670.5	695.9	935.2	837.9	704.0	663.4	630.9
72.5°	4036.2	1067.1	489.9	497.0	573.1	618.8	871.3	791.2	665.4	607.6	571.1
75°	3066.4	779.0	394.6	390.5	424.0	491.0	737.4	705.0	583.3	505.2	483.9
77.5°	1324.8	424.0	295.2	298.2	288.1	372.3	580.2	605.6	500.1	410.8	391.5
80°	401.7	244.5	201.9	205.9	192.7	249.5	408.8	474.7	401.7	319.5	293.2
82.5°	205.9	146.1	138.0	135.9	122.7	141.0	247.5	324.6	287.1	199.8	176.5
85°	89.3	78.1	68.0	65.9	57.8	50.7	88.2	162.3	152.2	111.6	106.5
87.5°	22.3	20.3	13.2	12.2	7.1	1.0	0.0	0.0	0.0	0.0	0.0
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)