

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: P193264

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27985.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

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



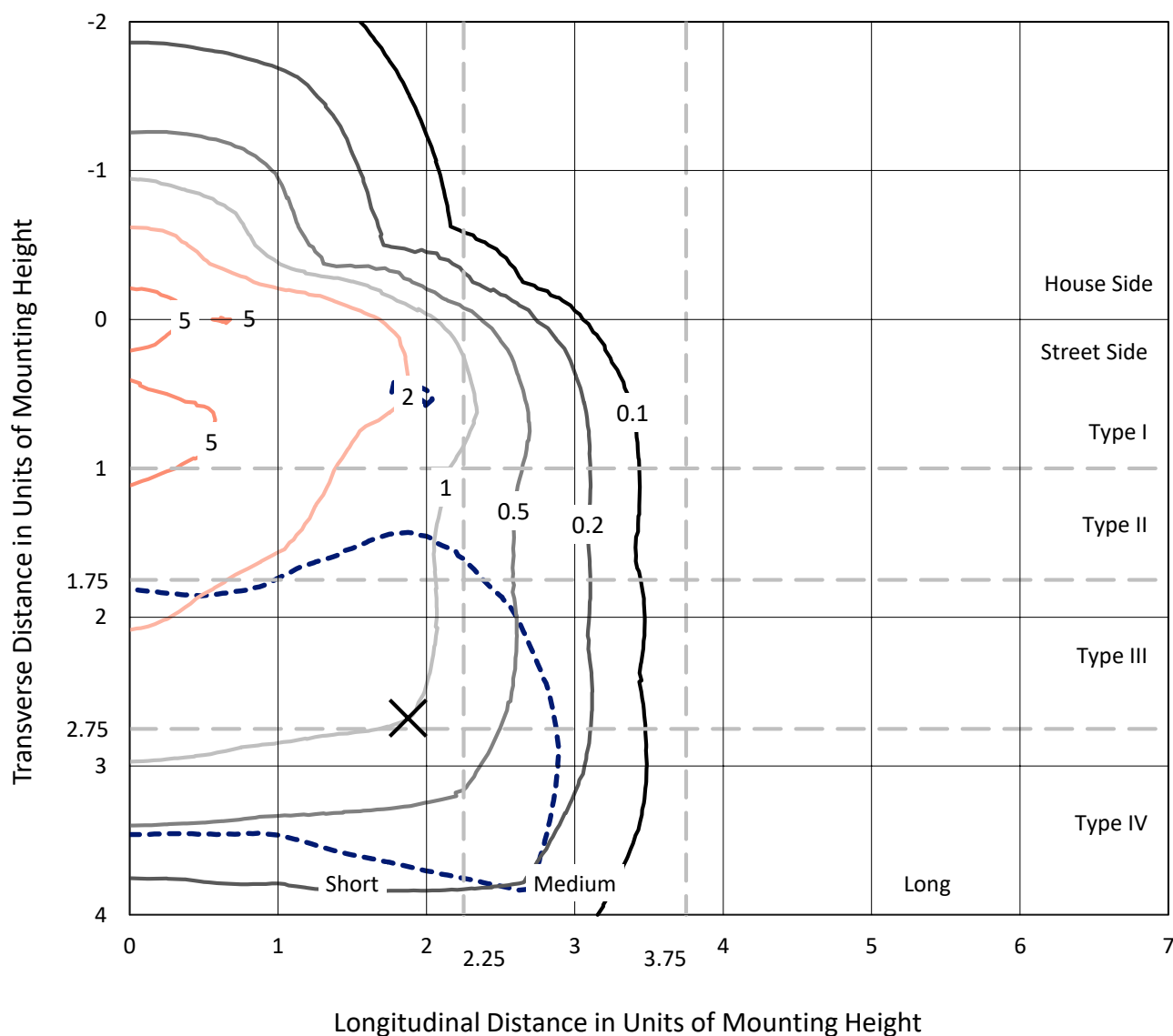
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

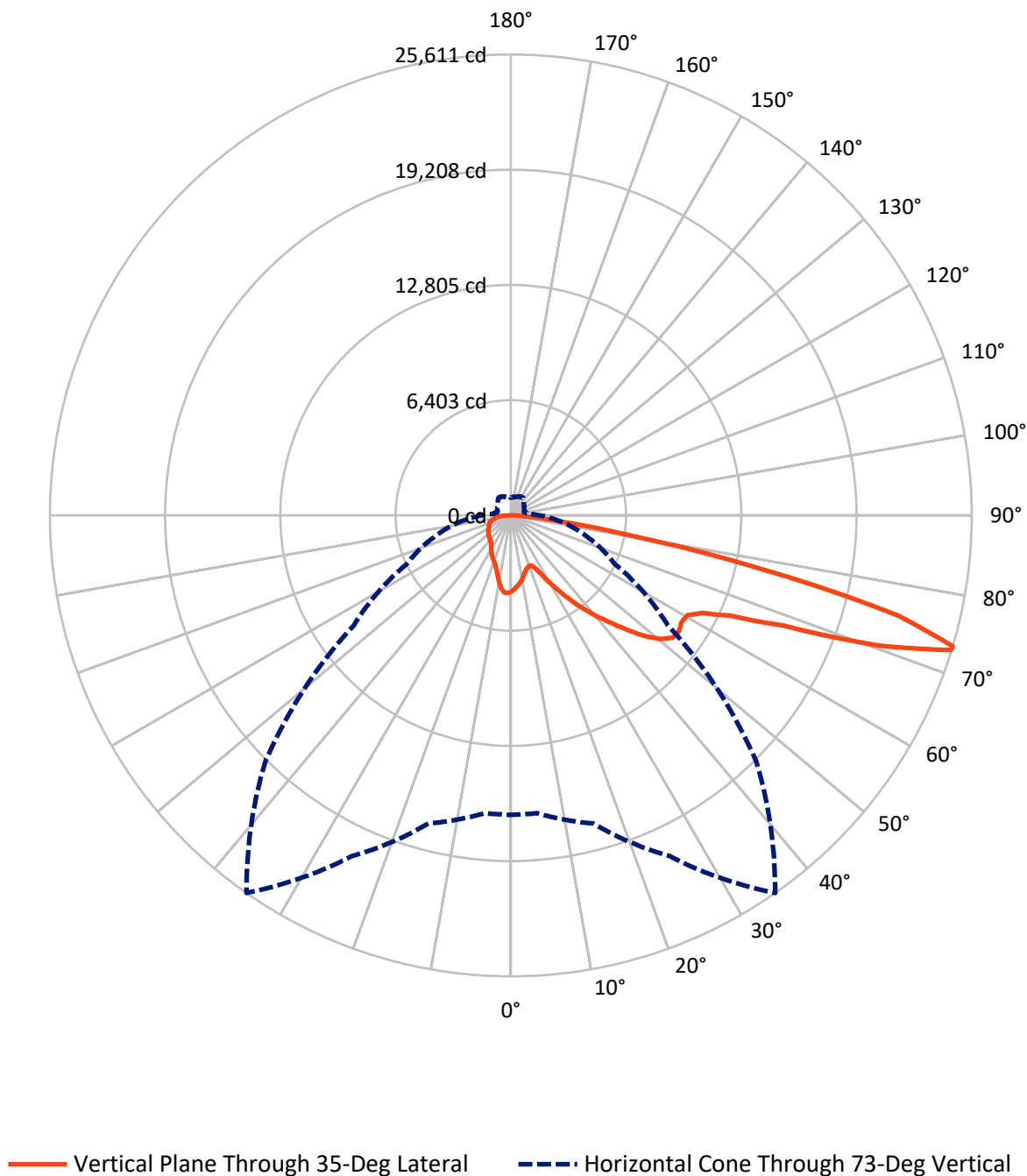


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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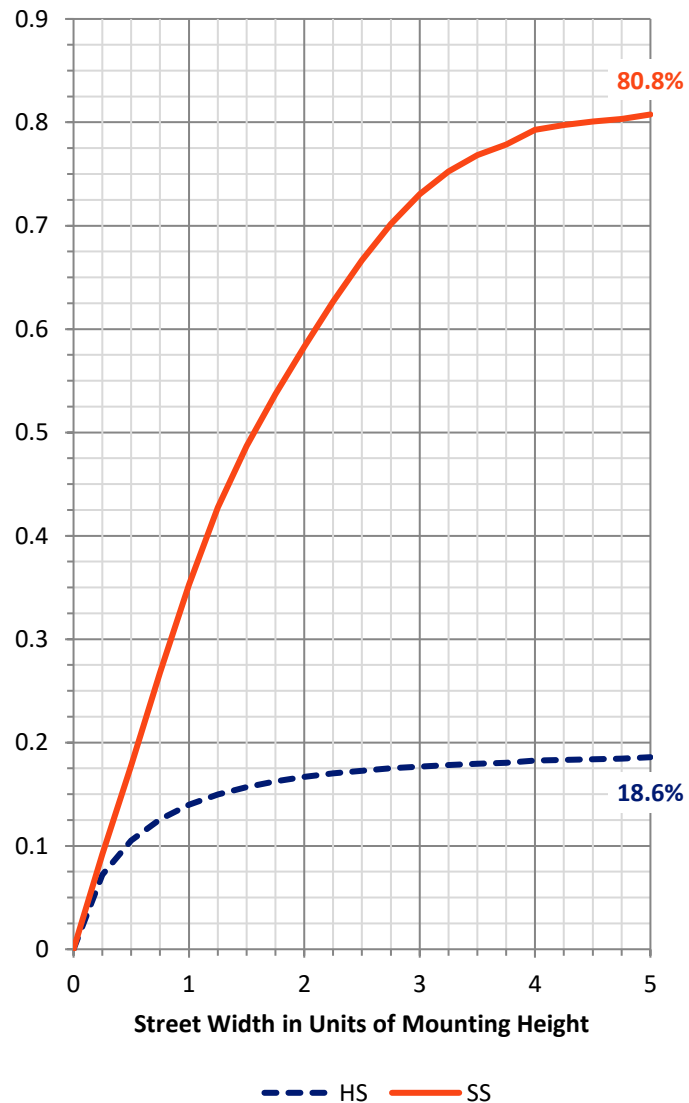
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5337.6	0.0	5337.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	22648.0	0.0	22648.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	27985.7	0.0	27985.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.4
10°-20°	954.4	3.4
20°-30°	1542.9	5.5
30°-40°	2587.2	9.2
40°-50°	3988.1	14.3
50°-60°	5350.4	19.1
60°-70°	7127.8	25.5
70°-80°	5436.4	19.4
80°-90°	616.2	2.2
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°	27985.7	100.0
0°-180°	27985.7	100.0

Coefficient of Utilization



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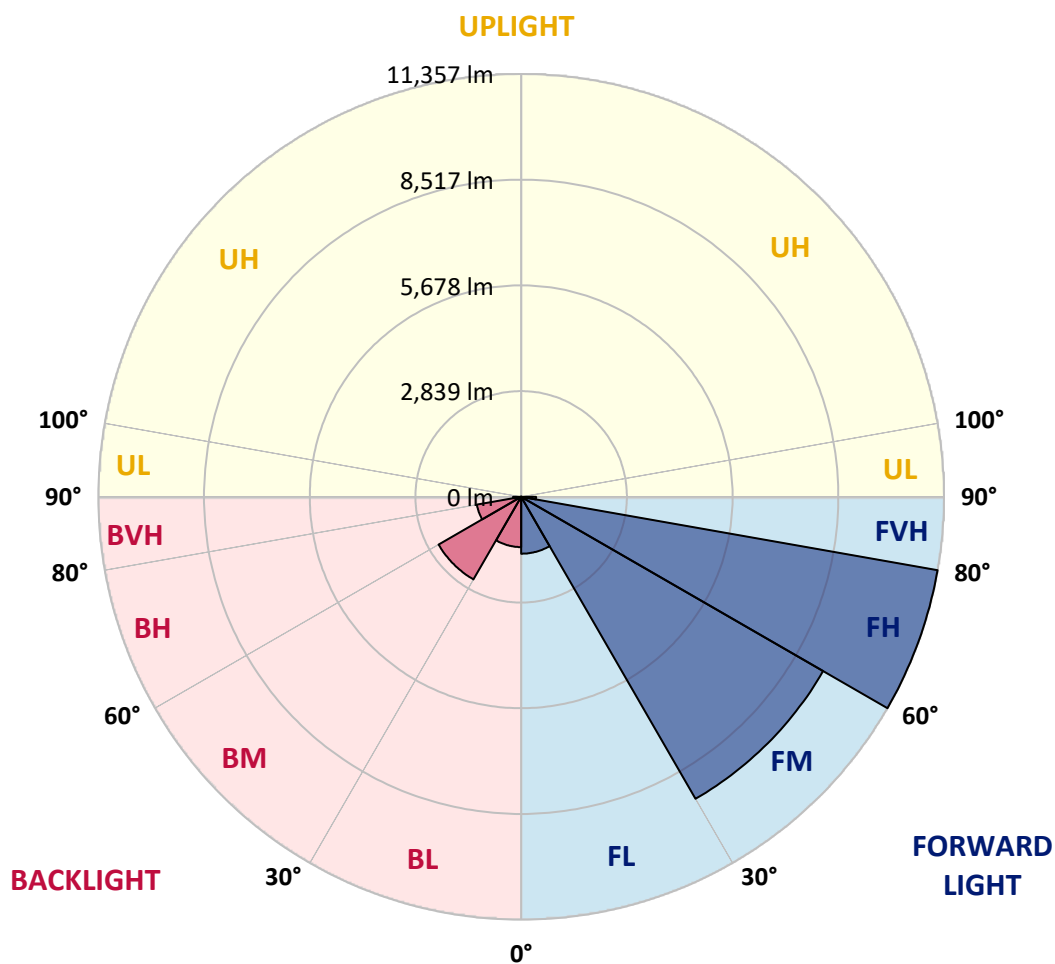
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.0	5.5			
FM	(30°-60°)	9364.2	33.5			
FH	(60°-80°)	11356.6	40.6			G4/12000
FVH	(80°-90°)	398.3	1.4			G3/500
BL	(0°-30°)	1350.7	4.8	B3/2500		
BM	(30°-60°)	2561.5	9.2	B3/5000		
BH	(60°-80°)	1207.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	217.9	0.8			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9
2.5°	4057.3	4065.3	4055.9	4068.0	4088.2	4109.7	4124.4	4146.0	4170.1	4203.8	4211.8
5°	3866.4	3878.4	3878.4	3900.0	3939.1	3974.0	4006.2	4041.2	4092.2	4150.0	4172.8
7.5°	3656.8	3663.5	3675.6	3707.8	3764.3	3814.0	3859.7	3916.2	3986.0	4062.6	4102.9
10°	3404.1	3413.5	3432.4	3478.0	3554.6	3623.1	3689.0	3766.9	3855.6	3951.2	4002.1
12.5°	3225.4	3222.7	3230.8	3264.3	3331.6	3414.9	3510.3	3609.7	3718.6	3830.2	3892.0
15°	3164.9	3150.2	3119.3	3111.1	3147.4	3230.8	3340.9	3463.3	3593.6	3728.0	3804.6
17.5°	3202.5	3177.0	3092.4	3030.6	3025.2	3088.3	3205.2	3342.3	3492.8	3656.8	3752.2
20°	3439.1	3378.7	3170.2	3026.5	2976.8	3007.7	3109.8	3255.0	3432.4	3650.1	3772.4
22.5°	4004.9	3916.2	3474.0	3206.5	3038.6	3001.0	3077.5	3232.1	3439.1	3733.4	3889.3
25°	4828.7	4702.3	3995.4	3655.5	3308.7	3108.4	3125.9	3284.6	3534.4	3926.9	4115.0
27.5°	5479.2	5397.2	4676.9	4288.4	3800.6	3398.7	3283.1	3416.2	3729.3	4244.0	4436.3
30°	5866.1	5816.4	5405.2	5006.0	4428.2	3861.0	3584.2	3663.5	4034.4	4683.5	4842.2
32.5°	6315.0	6285.4	6083.9	5717.0	5105.4	4468.4	4061.2	4033.1	4442.9	5211.6	5284.3
35°	6780.0	6770.6	6652.4	6388.9	5832.6	5269.5	4694.4	4503.4	4887.8	5760.0	5714.3
37.5°	7212.7	7196.6	7128.1	6974.9	6593.2	6129.6	5339.4	4985.9	5367.6	6284.1	6081.2
40°	8009.7	7883.4	7648.1	7532.7	7361.9	6854.0	5851.4	5436.0	5864.8	6784.0	6398.3
42.5°	8981.3	8775.7	8337.6	8179.0	8154.9	7425.2	6200.8	5872.9	6366.1	7280.0	6710.1
45°	9746.0	9552.5	9174.8	8974.7	9063.3	7942.5	6551.5	6339.2	6882.1	7800.0	7031.4
47.5°	10561.8	10258.1	9758.2	9818.6	10012.1	8431.6	6909.0	6840.5	7447.9	8382.0	7430.5
50°	10591.4	10358.9	10139.8	10501.4	10802.4	8881.9	7356.5	7365.9	8140.1	9114.4	7961.2
52.5°	9977.2	9927.4	10275.5	10844.0	11278.1	9238.0	7865.9	7908.9	9025.7	9955.7	8544.6
55°	9762.2	9705.7	10107.6	10724.4	11342.6	9532.4	8418.2	8496.2	10096.7	10842.7	9113.1
57.5°	10286.3	10161.3	10188.2	10668.0	11185.3	9854.8	9020.3	9177.6	11260.6	11618.1	9478.6
60°	11751.2	11483.7	10975.7	10963.6	11270.0	10338.6	9716.4	9908.6	12470.1	11989.0	9336.1
62.5°	13806.0	13538.6	12587.1	11967.5	11921.9	11137.1	10571.2	10622.3	13169.0	11486.4	8466.6
65°	16030.2	15790.9	14727.9	13853.0	13431.0	12459.4	11564.3	10940.7	12940.4	10103.5	6945.3
67.5°	18730.1	18473.3	17559.5	16751.8	16346.0	14593.5	12261.8	10635.8	11490.5	7826.9	4992.6
70°	20618.2	20356.2	19996.0	20650.5	21643.6	17672.3	12351.9	9395.3	8582.2	5202.3	3004.9
72.5°	18154.8	18032.5	18689.8	21446.1	25582.6	19540.5	11165.2	6840.5	4984.5	2761.7	1739.0
73°	16633.5	16606.7	17727.6	20888.4	25610.9	19252.8	10645.1	6358.1	4275.0	2443.2	1589.8
75°	7511.1	7727.5	10184.2	15954.9	22251.0	15864.9	7492.4	3647.4	2414.9	1687.9	1200.1
77.5°	1804.9	1880.2	3186.4	7576.9	14052.0	9454.4	3394.6	1803.6	1544.2	1192.0	876.3
80°	768.7	794.2	1227.0	2799.3	6616.0	3807.2	1564.3	1208.2	1068.4	831.9	614.1
82.5°	427.3	454.2	696.1	1270.0	2670.3	1298.2	954.2	841.3	702.9	501.3	399.2
85°	241.9	256.6	407.2	709.5	1131.6	521.3	571.2	559.1	396.5	258.1	196.2
87.5°	114.2	123.7	196.2	329.3	443.5	204.4	290.3	319.8	248.7	157.3	102.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9	4223.9
2.5°	4221.2	4245.4	4273.6	4288.4	4301.9	4317.9	4334.1	4334.1	4336.8	4338.1
5°	4191.6	4241.3	4285.7	4304.5	4308.5	4308.5	4304.5	4283.1	4264.2	4272.2
7.5°	4129.8	4202.4	4240.1	4233.4	4182.2	4123.1	4073.4	4012.9	3982.0	3976.6
10°	4041.2	4124.4	4131.2	4064.0	3937.7	3811.3	3706.5	3604.4	3556.0	3544.0
12.5°	3943.0	4019.6	3976.6	3838.2	3635.3	3451.2	3318.1	3214.6	3168.9	3156.8
15°	3863.7	3916.2	3807.2	3589.6	3334.3	3139.3	3029.2	2952.6	2920.3	2910.8
17.5°	3822.1	3832.9	3634.0	3339.6	3068.1	2905.5	2837.0	2800.8	2788.7	2781.8
20°	3842.2	3766.9	3468.7	3107.2	2850.5	2736.2	2720.1	2710.6	2708.0	2703.9
22.5°	3943.0	3746.8	3316.8	2886.7	2659.6	2609.8	2623.4	2622.0	2619.3	2616.5
25°	4123.1	3764.3	3168.9	2677.1	2499.7	2488.9	2513.1	2513.1	2502.4	2502.4
27.5°	4361.0	3800.6	3003.6	2478.2	2354.5	2355.8	2374.6	2369.3	2357.3	2349.2
30°	4651.2	3823.4	2810.1	2299.5	2218.8	2213.4	2218.8	2196.0	2159.6	2157.0
32.5°	4948.3	3795.2	2585.7	2140.8	2075.0	2063.0	2058.9	2026.6	1984.9	1972.9
35°	5217.0	3691.8	2357.3	2014.5	1937.9	1911.1	1929.8	1919.1	1881.5	1872.0
37.5°	5413.2	3499.6	2151.7	1903.0	1839.8	1833.1	1845.2	1849.2	1804.9	1795.4
40°	5545.0	3238.8	1975.5	1808.9	1821.1	1795.4	1755.1	1727.0	1713.5	1709.5
42.5°	5651.1	2967.4	1827.7	1764.5	1825.0	1751.1	1663.8	1618.0	1642.2	1653.0
45°	5773.5	2702.6	1704.1	1709.5	1804.9	1700.1	1600.6	1556.3	1565.6	1568.3
47.5°	5941.4	2380.1	1571.0	1620.8	1737.7	1665.1	1561.7	1498.5	1454.1	1433.9
50°	6173.9	1998.4	1432.6	1521.3	1671.7	1639.6	1501.1	1433.9	1352.0	1333.2
52.5°	6335.2	1642.2	1318.3	1438.0	1612.6	1588.5	1452.8	1365.4	1279.4	1263.2
55°	6247.9	1364.1	1218.9	1345.2	1534.8	1525.4	1412.4	1295.5	1228.3	1214.9
57.5°	5811.1	1187.9	1142.3	1257.9	1439.3	1471.6	1358.6	1236.4	1187.9	1178.6
60°	4977.9	1077.9	1093.9	1198.8	1361.4	1417.8	1304.9	1204.1	1172.0	1165.1
62.5°	3862.5	1003.9	1057.6	1155.8	1301.0	1380.2	1275.4	1200.1	1187.9	1180.0
65°	2767.1	944.8	1018.8	1112.8	1245.8	1345.2	1264.5	1194.8	1197.4	1190.7
67.5°	1880.2	892.3	971.7	1064.4	1192.0	1314.4	1249.8	1175.9	1209.5	1201.5
70°	1315.7	841.3	916.5	1002.6	1124.9	1271.3	1222.9	1147.7	1145.0	1112.8
72.5°	1026.7	774.1	841.3	916.5	1038.8	1210.8	1169.2	1084.5	1040.1	1006.6
73°	979.7	757.9	822.5	897.8	1020.1	1196.1	1154.5	1067.0	1017.3	986.4
75°	810.3	688.2	747.3	814.4	939.4	1126.3	1081.8	987.8	924.7	905.8
77.5°	637.0	588.6	645.0	705.6	827.8	1024.1	974.4	884.4	849.4	833.2
80°	471.7	487.9	537.5	591.3	717.7	915.1	870.9	780.7	936.7	897.8
82.5°	331.9	369.7	415.3	463.7	602.0	809.1	755.3	662.5	685.4	569.8
85°	196.2	241.9	284.9	326.5	434.1	670.7	623.6	528.2	432.7	412.6
87.5°	114.2	134.4	146.5	189.4	298.4	505.4	439.4	391.0	224.4	151.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)