

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: P194855

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194855
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-07-LED-E1-T4FT-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA 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: 27907 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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



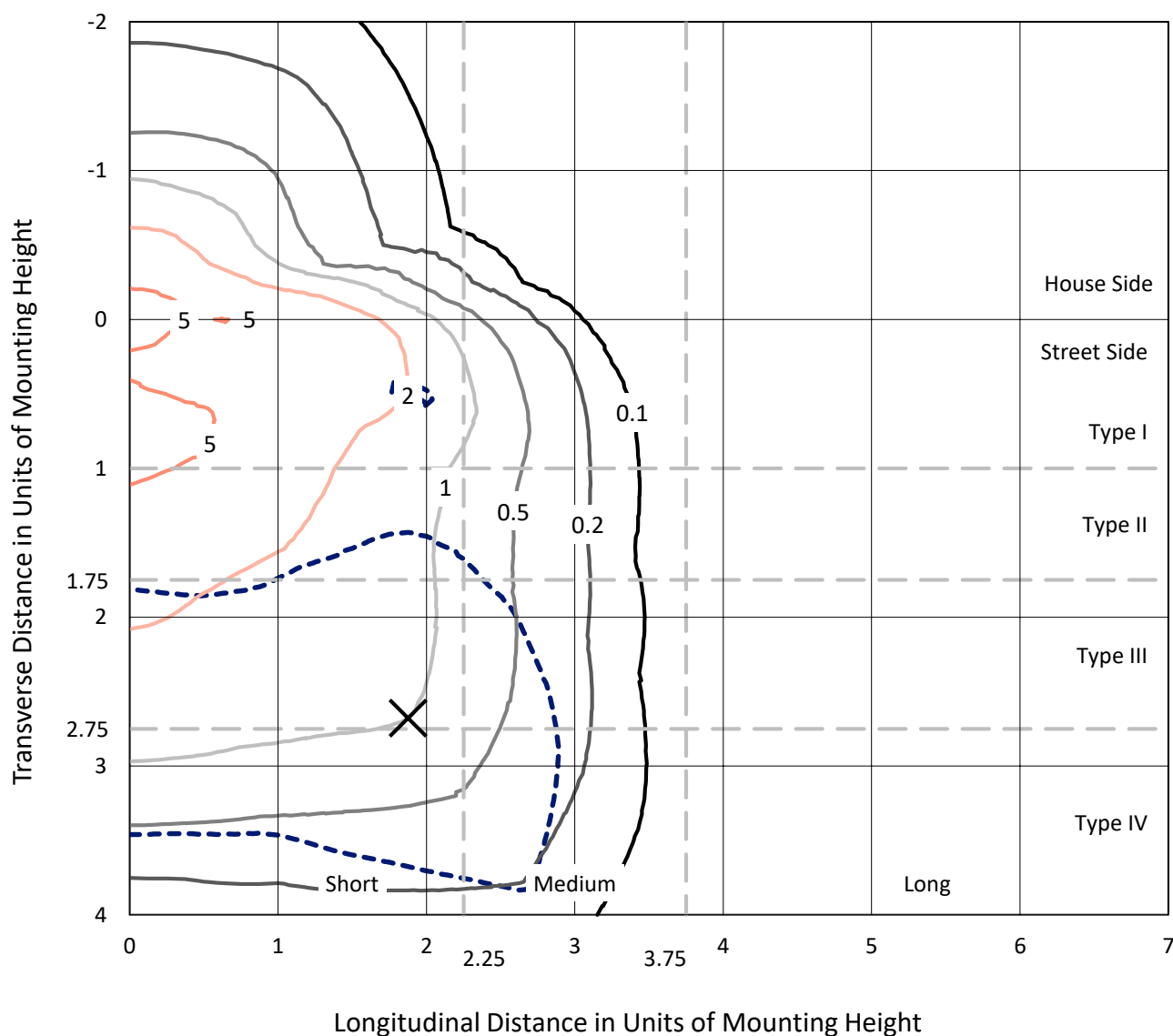
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

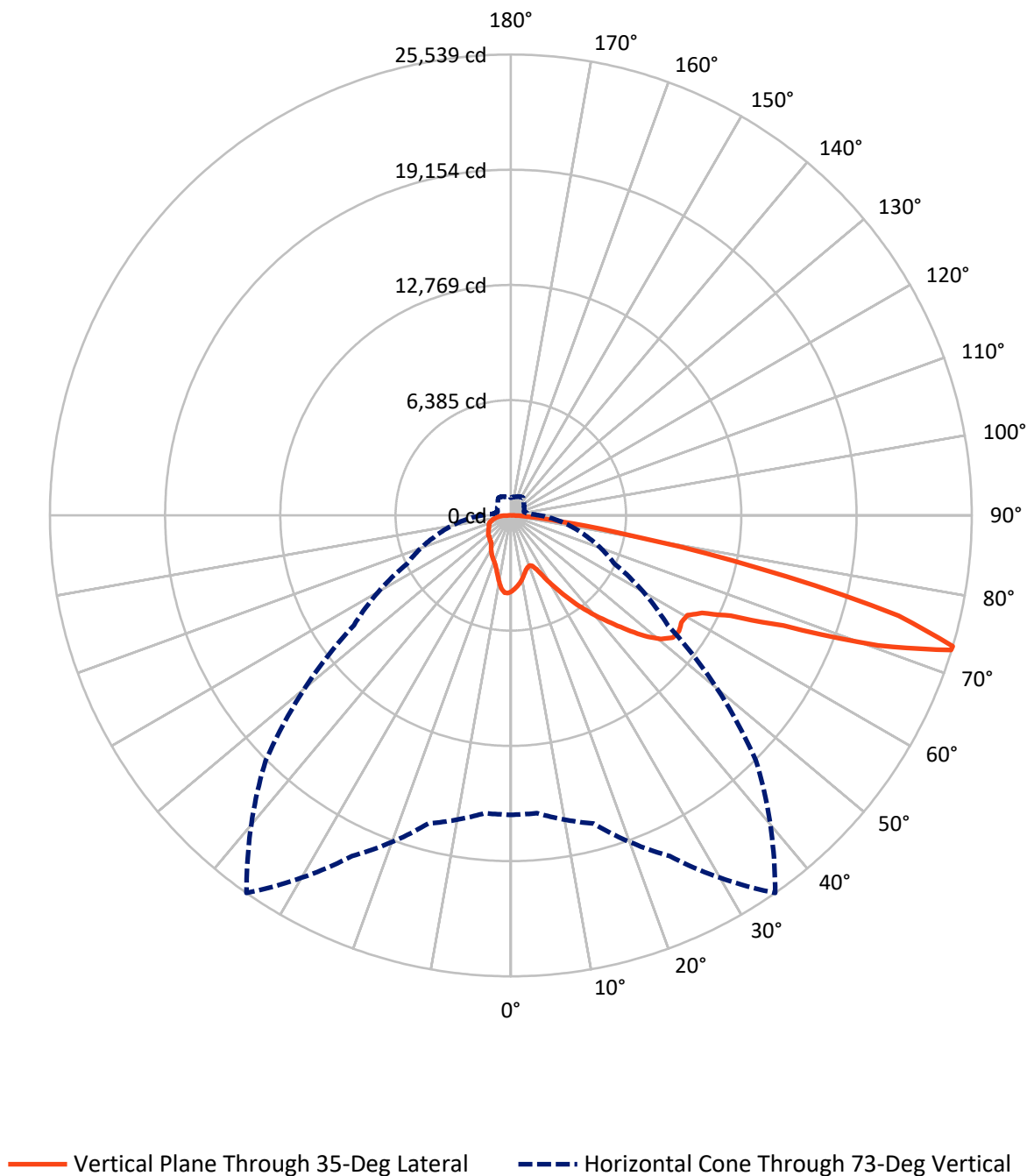


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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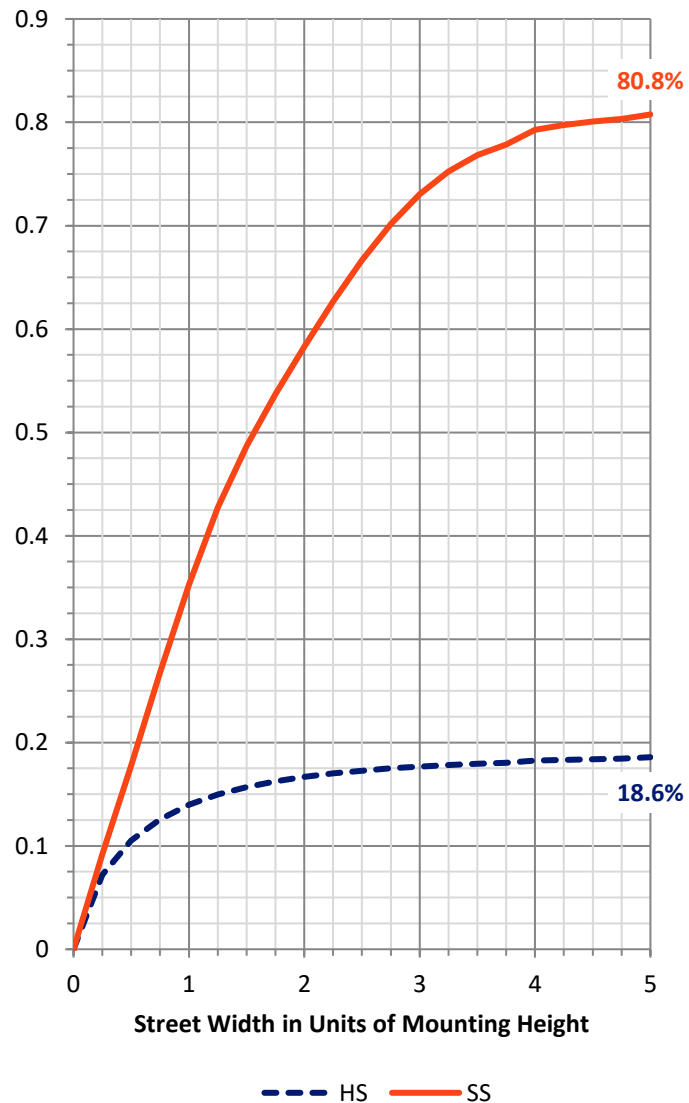
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5322.6	0.0	5322.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	22584.4	0.0	22584.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	27907.0	0.0	27907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	1.4
10°-20°	951.7	3.4
20°-30°	1538.5	5.5
30°-40°	2579.9	9.2
40°-50°	3976.8	14.3
50°-60°	5335.4	19.1
60°-70°	7107.8	25.5
70°-80°	5421.1	19.4
80°-90°	614.5	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°	27907.0	100.0
0°-180°	27907.0	100.0

Coefficient of Utilization



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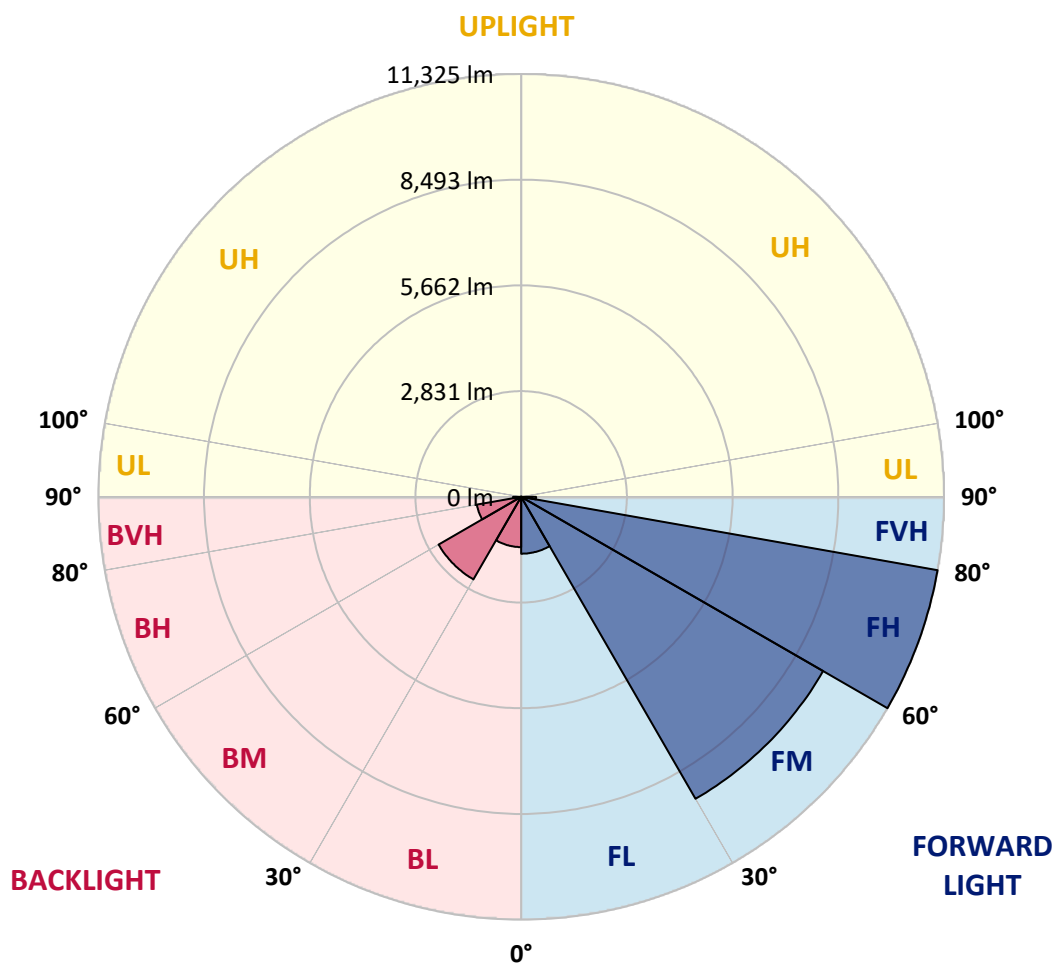
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1524.7	5.5			
FM	(30°-60°)	9337.9	33.5			
FH	(60°-80°)	11324.7	40.6			G4/12000
FVH	(80°-90°)	397.2	1.4			G3/500
BL	(0°-30°)	1346.9	4.8	B3/2500		
BM	(30°-60°)	2554.3	9.2	B3/5000		
BH	(60°-80°)	1204.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	217.3	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°	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0
2.5°	4045.9	4053.9	4044.5	4056.6	4076.7	4098.1	4112.9	4134.3	4158.4	4191.9	4200.0
5°	3855.6	3867.6	3867.6	3889.1	3927.9	3962.8	3994.9	4029.8	4080.7	4138.3	4161.1
7.5°	3646.5	3653.2	3665.3	3697.4	3753.7	3803.3	3848.9	3905.1	3974.8	4051.2	4091.4
10°	3394.6	3403.9	3422.7	3468.3	3544.6	3613.0	3678.7	3756.4	3844.8	3940.0	3990.9
12.5°	3216.3	3213.6	3221.7	3255.2	3322.2	3405.3	3500.4	3599.6	3708.1	3819.4	3881.0
15°	3156.0	3141.3	3110.4	3102.4	3138.6	3221.7	3331.6	3453.5	3583.5	3717.5	3793.9
17.5°	3193.5	3168.1	3083.6	3022.0	3016.6	3079.6	3196.2	3332.9	3483.0	3646.5	3741.6
20°	3429.4	3369.1	3161.4	3018.0	2968.4	2999.2	3101.1	3245.8	3422.7	3639.8	3761.7
22.5°	3993.6	3905.1	3464.2	3197.6	3030.0	2992.5	3068.9	3223.0	3429.4	3722.9	3878.3
25°	4815.1	4689.1	3984.2	3645.2	3299.4	3099.7	3117.1	3275.3	3524.5	3915.9	4103.5
27.5°	5463.7	5382.0	4663.7	4276.4	3789.9	3389.2	3273.9	3406.6	3718.9	4232.1	4423.8
30°	5849.7	5800.1	5390.0	4992.0	4415.7	3850.2	3574.1	3653.2	4023.1	4670.4	4828.5
32.5°	6297.3	6267.8	6066.8	5700.9	5091.2	4455.9	4049.9	4021.7	4430.5	5197.0	5269.4
35°	6761.0	6751.6	6633.7	6371.0	5816.2	5254.7	4681.1	4490.8	4874.1	5743.8	5698.2
37.5°	7192.5	7176.4	7108.1	6955.3	6574.7	6112.3	5324.3	4971.9	5352.5	6266.5	6064.1
40°	7987.2	7861.2	7626.7	7511.4	7341.2	6834.7	5834.9	5420.8	5848.3	6765.0	6380.4
42.5°	8956.1	8751.1	8314.2	8156.0	8131.9	7404.2	6183.4	5856.4	6348.2	7259.5	6691.3
45°	9718.6	9525.7	9149.1	8949.4	9037.8	7920.2	6533.1	6321.4	6862.8	7778.1	7011.6
47.5°	10532.1	10229.2	9730.7	9791.0	9984.0	8408.0	6889.6	6821.3	7427.0	8358.4	7409.6
50°	10561.6	10329.7	10111.3	10471.8	10772.0	8856.9	7335.9	7345.3	8117.2	9088.8	7938.9
52.5°	9949.1	9899.6	10246.6	10813.5	11246.4	9212.1	7843.8	7886.7	9000.3	9927.7	8520.6
55°	9734.7	9678.4	10079.1	10694.2	11310.7	9505.6	8394.6	8472.3	10068.4	10812.2	9087.4
57.5°	10257.4	10132.7	10159.5	10638.0	11153.9	9827.2	8995.0	9151.8	11229.0	11585.4	9451.9
60°	11718.1	11451.4	10944.9	10932.8	11238.3	10309.6	9689.2	9880.8	12435.1	11955.3	9309.9
62.5°	13767.2	13500.5	12551.7	11933.9	11888.3	11105.7	10541.5	10592.4	13131.9	11454.1	8442.8
65°	15985.1	15746.5	14686.5	13814.1	13393.3	12424.4	11531.8	10910.0	12904.1	10075.1	6925.8
67.5°	18677.4	18421.4	17510.2	16704.7	16300.0	14552.5	12227.4	10605.8	11458.1	7804.9	4978.6
70°	20560.3	20299.0	19939.8	20592.5	21582.8	17622.7	12317.1	9368.9	8558.1	5187.6	2996.5
72.5°	18103.8	17981.9	18637.2	21385.8	25510.7	19485.5	11133.8	6821.3	4970.5	2754.0	1734.1
73°	16586.8	16560.0	17677.7	20829.7	25538.9	19198.7	10615.2	6340.2	4263.0	2436.4	1585.4
75°	7490.0	7705.8	10155.5	15910.0	22188.6	15820.3	7471.2	3637.1	2408.2	1683.2	1196.7
77.5°	1799.8	1874.8	3177.5	7555.7	14012.4	9427.8	3385.2	1798.5	1539.8	1188.7	873.8
80°	766.6	792.0	1223.5	2791.5	6597.5	3796.6	1559.9	1204.8	1065.4	829.5	612.4
82.5°	426.2	453.0	694.2	1266.4	2662.8	1294.6	951.5	838.9	700.9	499.9	398.0
85°	241.2	256.0	406.1	707.6	1128.4	520.0	569.6	557.5	395.3	257.3	195.7
87.5°	113.9	123.3	195.7	328.3	442.2	203.7	289.5	319.0	247.9	156.8	101.8
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°	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0	4212.0
2.5°	4209.4	4233.5	4261.6	4276.4	4289.8	4305.8	4321.9	4321.9	4324.6	4325.9
5°	4179.9	4229.5	4273.7	4292.4	4296.5	4296.5	4292.4	4271.0	4252.2	4260.3
7.5°	4118.2	4190.6	4228.1	4221.4	4170.5	4111.5	4061.9	4001.6	3970.8	3965.4
10°	4029.8	4112.9	4119.6	4052.6	3926.6	3800.6	3696.1	3594.2	3546.0	3533.9
12.5°	3931.9	4008.3	3965.4	3827.4	3625.1	3441.5	3308.8	3205.6	3160.0	3148.0
15°	3852.9	3905.1	3796.6	3579.5	3324.9	3130.5	3020.7	2944.3	2912.1	2902.7
17.5°	3811.3	3822.1	3623.7	3330.2	3059.5	2897.4	2829.0	2792.8	2780.8	2774.1
20°	3831.4	3756.4	3458.9	3098.4	2842.4	2728.5	2712.4	2703.0	2700.4	2696.3
22.5°	3931.9	3736.3	3307.4	2878.6	2652.1	2602.5	2615.9	2614.6	2611.9	2609.2
25°	4111.5	3753.7	3160.0	2669.5	2492.6	2481.9	2506.0	2506.0	2495.3	2495.3
27.5°	4348.7	3789.9	2995.2	2471.2	2347.9	2349.3	2368.0	2362.7	2350.6	2342.5
30°	4638.2	3812.7	2802.2	2293.0	2212.6	2207.2	2212.6	2189.8	2153.6	2150.9
32.5°	4934.4	3784.5	2578.4	2134.8	2069.2	2057.1	2053.1	2020.9	1979.4	1967.3
35°	5202.4	3681.3	2350.6	2008.9	1932.5	1905.7	1924.4	1913.7	1876.2	1866.8
37.5°	5398.0	3489.7	2145.6	1897.6	1834.6	1827.9	1840.0	1844.0	1799.8	1790.4
40°	5529.4	3229.7	1970.0	1803.8	1815.9	1790.4	1750.2	1722.1	1708.7	1704.6
42.5°	5635.3	2959.0	1822.6	1759.6	1819.9	1746.2	1659.1	1613.5	1637.6	1648.4
45°	5757.2	2695.0	1699.3	1704.6	1799.8	1695.3	1596.1	1551.9	1561.3	1563.9
47.5°	5924.7	2373.4	1566.6	1616.2	1732.8	1660.4	1557.2	1494.2	1450.0	1429.9
50°	6156.6	1992.8	1428.6	1517.0	1667.1	1635.0	1496.9	1429.9	1348.2	1329.4
52.5°	6317.4	1637.6	1314.7	1433.9	1608.2	1584.0	1448.7	1361.6	1275.8	1259.7
55°	6230.3	1360.2	1215.5	1341.5	1530.4	1521.0	1408.5	1291.9	1224.9	1211.5
57.5°	5794.7	1184.7	1139.1	1254.4	1435.3	1467.4	1354.9	1232.9	1184.7	1175.3
60°	4963.8	1074.8	1090.9	1195.4	1357.6	1413.8	1301.3	1200.8	1168.6	1161.9
62.5°	3851.5	1001.1	1054.7	1152.5	1297.2	1376.3	1271.8	1196.7	1184.7	1176.6
65°	2759.3	942.1	1015.8	1109.6	1242.3	1341.5	1261.1	1191.4	1194.1	1187.4
67.5°	1874.8	889.8	968.9	1061.4	1188.7	1310.6	1246.3	1172.6	1206.1	1198.1
70°	1312.0	838.9	914.0	999.7	1121.7	1267.8	1219.5	1144.5	1141.8	1109.6
72.5°	1023.9	771.9	838.9	914.0	1035.9	1207.5	1165.9	1081.5	1037.3	1003.8
73°	977.0	755.8	820.2	895.2	1017.2	1192.7	1151.2	1064.1	1014.5	983.7
75°	808.1	686.1	745.1	812.1	936.8	1123.0	1078.8	985.0	922.0	903.2
77.5°	635.2	587.0	643.3	703.6	825.5	1021.2	971.6	881.8	847.0	830.9
80°	470.4	486.5	536.1	589.7	715.6	912.6	868.4	778.6	934.1	895.2
82.5°	331.0	368.5	414.1	462.3	600.4	806.8	753.2	660.7	683.5	568.2
85°	195.7	241.2	284.1	325.7	432.9	668.7	621.8	526.7	431.5	411.4
87.5°	113.9	134.0	146.1	189.0	297.5	503.9	438.2	390.0	223.8	151.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)