

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: P300394

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300394
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: GLNA-AF-07-LED-E1-T4FT-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27830.3 lumens
Efficiency: N/A
Efficacy: 94.3 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): 295
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



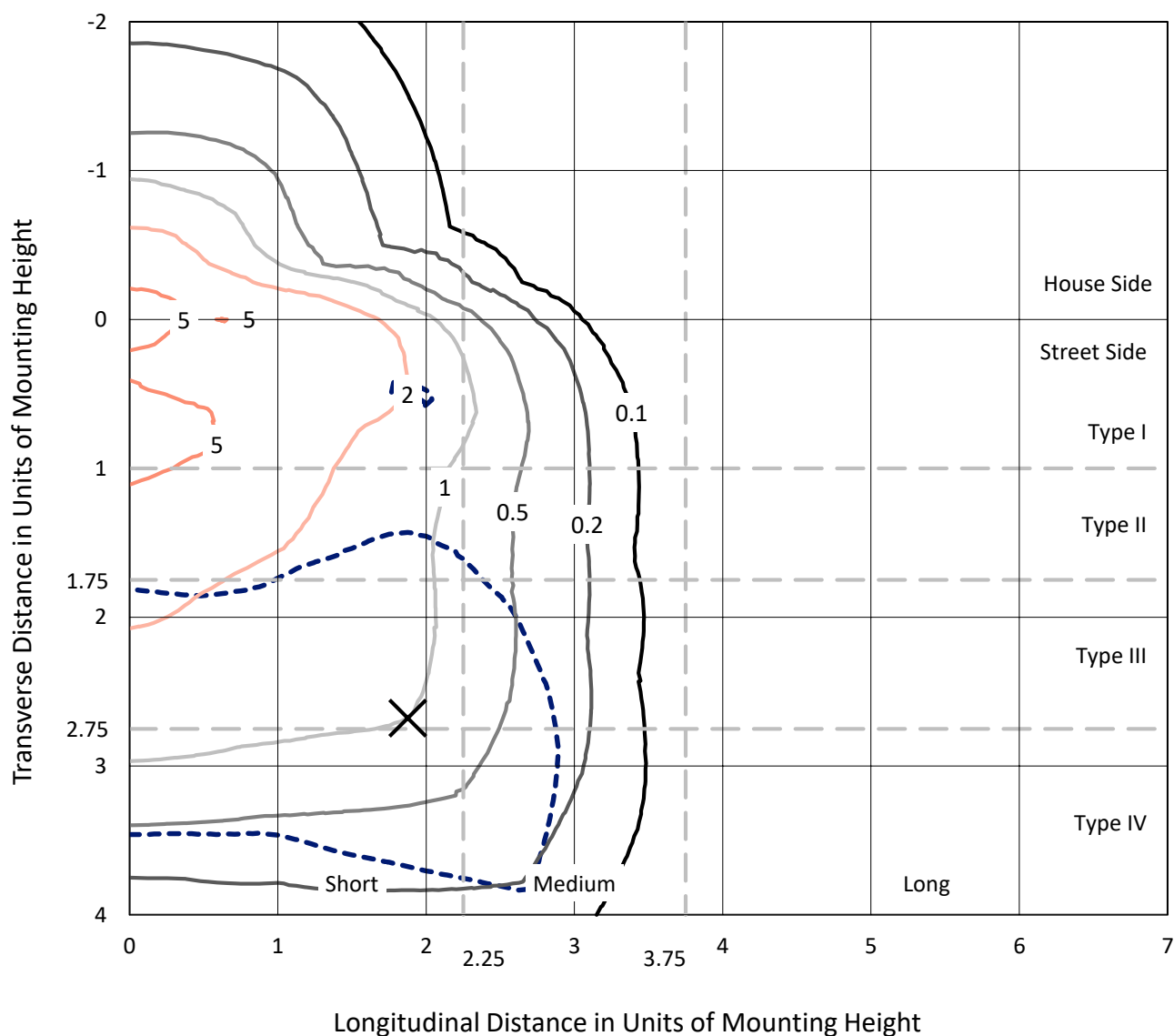
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

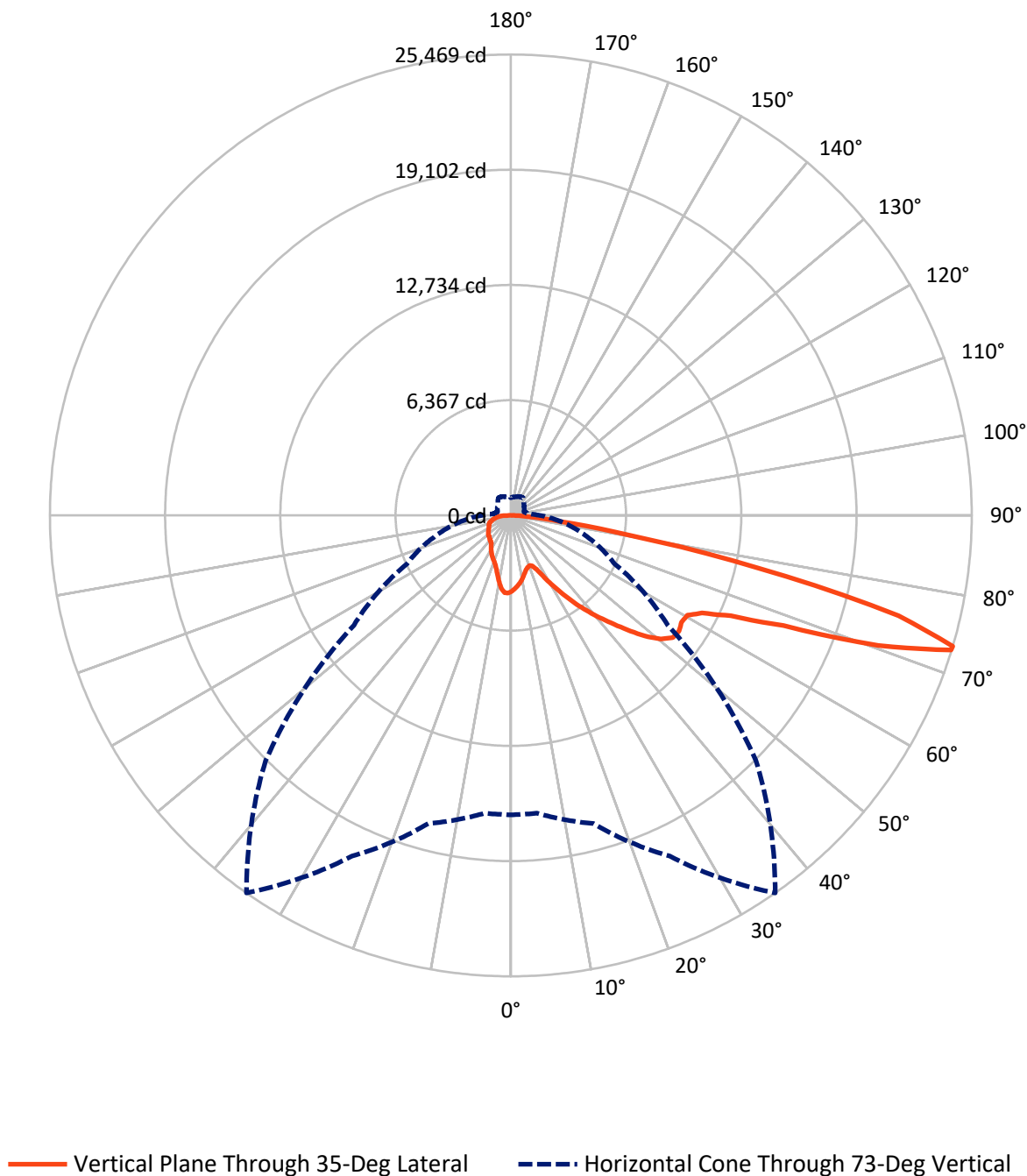


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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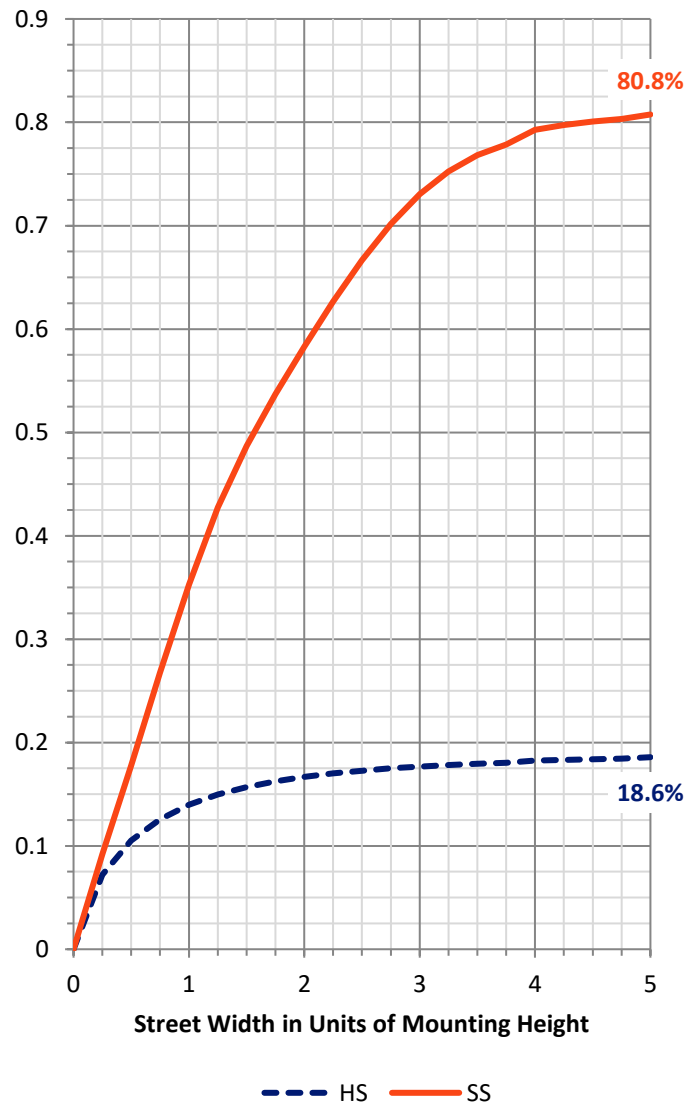
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5308.0	0.0	5308.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	22522.3	0.0	22522.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	27830.3	0.0	27830.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	1.4
10°-20°	949.1	3.4
20°-30°	1534.3	5.5
30°-40°	2572.8	9.2
40°-50°	3965.9	14.3
50°-60°	5320.7	19.1
60°-70°	7088.3	25.5
70°-80°	5406.2	19.4
80°-90°	612.8	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°	27830.3	100.0
0°-180°	27830.3	100.0

Coefficient of Utilization



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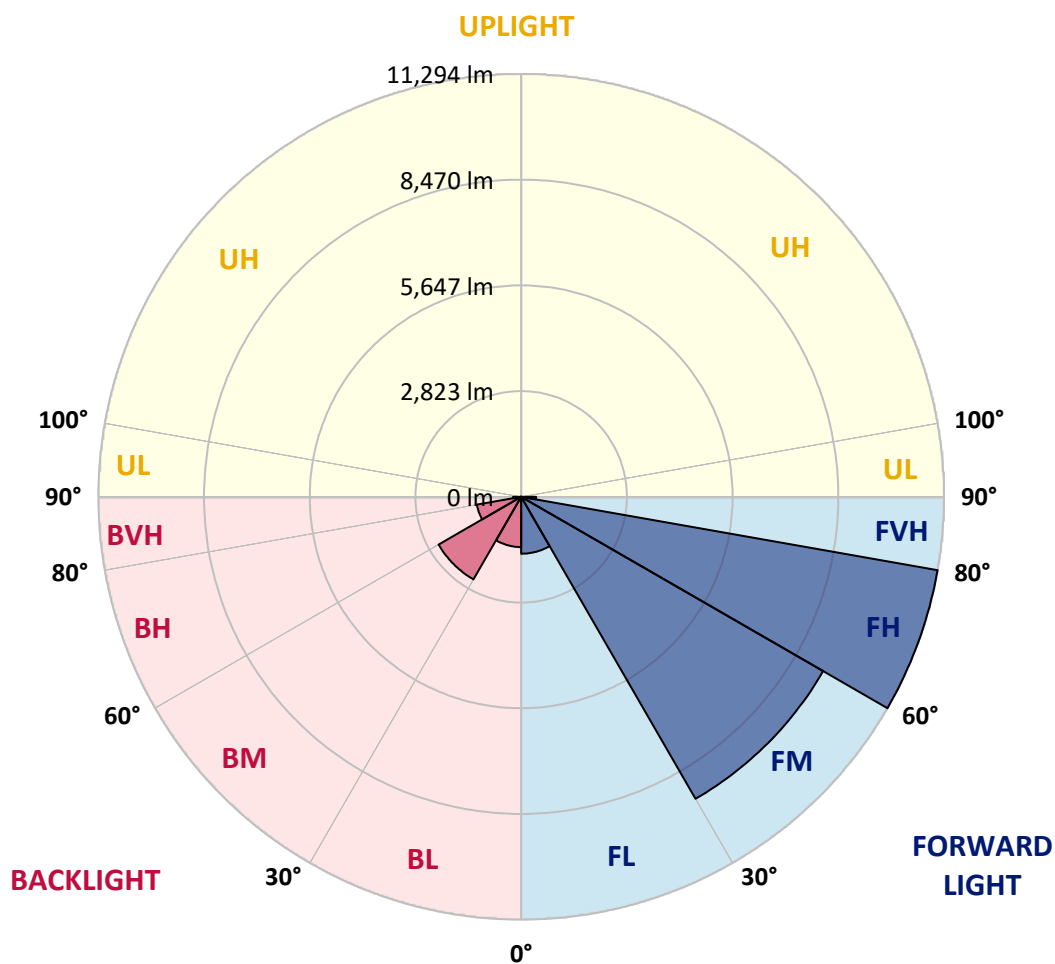
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1520.5	5.5			
FM	(30°-60°)	9312.2	33.5			
FH	(60°-80°)	11293.5	40.6			G4/12000
FVH	(80°-90°)	396.1	1.4			G3/500
BL	(0°-30°)	1343.2	4.8	B3/2500		
BM	(30°-60°)	2547.3	9.2	B3/5000		
BH	(60°-80°)	1200.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	216.7	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°	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5
2.5°	4034.7	4042.8	4033.4	4045.4	4065.5	4086.9	4101.6	4122.9	4147.0	4180.4	4188.4
5°	3845.0	3857.0	3857.0	3878.4	3917.1	3951.9	3984.0	4018.7	4069.5	4127.0	4149.7
7.5°	3636.5	3643.2	3655.2	3687.3	3743.4	3792.8	3838.3	3894.4	3963.9	4040.1	4080.2
10°	3385.2	3394.6	3413.3	3458.7	3534.9	3603.1	3668.6	3746.1	3834.3	3929.2	3979.9
12.5°	3207.5	3204.8	3212.8	3246.2	3313.1	3395.9	3490.8	3589.7	3698.0	3808.9	3870.4
15°	3147.3	3132.6	3101.9	3093.9	3130.0	3212.8	3322.4	3444.0	3573.7	3707.3	3783.5
17.5°	3184.8	3159.4	3075.2	3013.7	3008.4	3071.2	3187.4	3323.8	3473.4	3636.5	3731.4
20°	3420.0	3359.8	3152.7	3009.7	2960.2	2991.0	3092.5	3236.9	3413.3	3629.8	3751.4
22.5°	3982.6	3894.4	3454.7	3188.8	3021.7	2984.3	3060.5	3214.2	3420.0	3712.7	3867.7
25°	4801.9	4676.2	3973.3	3635.1	3290.3	3091.2	3108.6	3266.3	3514.9	3905.1	4092.2
27.5°	5448.7	5367.2	4650.8	4264.6	3779.5	3379.9	3264.9	3397.3	3708.7	4220.5	4411.6
30°	5833.6	5784.2	5375.2	4978.3	4403.6	3839.6	3564.3	3643.2	4012.0	4657.5	4815.2
32.5°	6280.0	6250.6	6050.1	5685.3	5077.2	4443.7	4038.8	4010.7	4418.3	5182.8	5254.9
35°	6742.4	6733.0	6615.4	6353.5	5800.2	5240.2	4668.2	4478.4	4860.7	5728.0	5682.6
37.5°	7172.7	7156.7	7088.5	6936.2	6556.6	6095.6	5309.7	4958.2	5337.8	6249.2	6047.4
40°	7965.2	7839.6	7605.7	7490.8	7321.1	6815.9	5818.9	5405.9	5832.3	6746.4	6362.8
42.5°	8931.5	8727.0	8291.3	8133.6	8109.6	7383.9	6166.4	5840.3	6330.8	7239.6	6672.9
45°	9691.9	9499.5	9123.9	8924.8	9013.0	7898.4	6515.2	6304.0	6844.0	7756.8	6992.3
47.5°	10503.2	10201.1	9704.0	9764.1	9956.6	8384.9	6870.7	6802.5	7406.6	8335.4	7389.2
50°	10532.6	10301.4	10083.5	10443.0	10742.4	8832.6	7315.7	7325.1	8094.9	9063.8	7917.1
52.5°	9921.8	9872.4	10218.5	10783.8	11215.5	9186.8	7822.2	7865.0	8975.6	9900.4	8497.2
55°	9708.0	9651.8	10051.4	10664.9	11279.6	9479.4	8371.5	8449.0	10040.8	10782.5	9062.5
57.5°	10229.2	10104.9	10131.6	10608.7	11123.3	9800.2	8970.3	9126.6	11198.1	11553.6	9426.0
60°	11685.9	11420.0	10914.8	10902.8	11207.5	10281.3	9662.5	9853.6	12400.9	11922.5	9284.3
62.5°	13729.4	13463.4	12517.2	11901.1	11855.7	11075.2	10512.5	10563.3	13095.9	11422.6	8419.6
65°	15941.2	15703.3	14646.2	13776.1	13356.5	12390.2	11500.2	10880.0	12868.7	10047.4	6906.8
67.5°	18626.1	18370.8	17462.1	16658.9	16255.2	14512.5	12193.8	10576.7	11426.7	7783.5	4964.9
70°	20503.8	20243.2	19885.0	20535.9	21523.5	17574.3	12283.3	9343.1	8534.6	5173.4	2988.3
72.5°	18054.1	17932.5	18586.0	21327.1	25440.7	19432.0	11103.2	6802.5	4956.9	2746.4	1729.4
73°	16541.2	16514.5	17629.1	20772.5	25468.7	19146.0	10586.0	6322.7	4251.2	2429.7	1581.0
75°	7469.4	7684.6	10127.6	15866.3	22127.6	15776.8	7450.7	3627.1	2401.6	1678.6	1193.5
77.5°	1794.9	1869.7	3168.7	7534.9	13973.9	9401.9	3375.9	1793.5	1535.6	1185.4	871.4
80°	764.4	789.8	1220.2	2783.8	6579.3	3786.2	1555.6	1201.5	1062.5	827.3	610.8
82.5°	425.0	451.7	692.3	1262.9	2655.5	1291.0	948.9	836.6	699.0	498.5	396.9
85°	240.6	255.3	404.9	705.6	1125.3	518.5	568.0	556.0	394.3	256.6	195.1
87.5°	113.6	123.0	195.1	327.4	441.0	203.1	288.7	318.1	247.2	156.4	101.6
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°	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5	4200.5
2.5°	4197.8	4221.8	4249.9	4264.6	4278.0	4294.0	4310.1	4310.1	4312.7	4314.1
5°	4168.4	4217.8	4261.9	4280.7	4284.7	4284.7	4280.7	4259.3	4240.6	4248.6
7.5°	4106.9	4179.1	4216.5	4209.8	4159.0	4100.2	4050.8	3990.6	3959.9	3954.6
10°	4018.7	4101.6	4108.2	4041.4	3915.8	3790.2	3685.9	3584.4	3536.2	3524.2
12.5°	3921.1	3997.3	3954.6	3816.9	3615.1	3432.0	3299.7	3196.8	3151.4	3139.3
15°	3842.3	3894.4	3786.2	3569.7	3315.7	3121.9	3012.4	2936.2	2904.1	2894.8
17.5°	3800.9	3811.6	3613.8	3321.1	3051.1	2889.4	2821.2	2785.2	2773.1	2766.5
20°	3820.9	3746.1	3449.4	3089.9	2834.6	2721.0	2705.0	2695.6	2692.9	2688.9
22.5°	3921.1	3726.0	3298.4	2870.7	2644.8	2595.4	2608.8	2607.4	2604.7	2602.1
25°	4100.2	3743.4	3151.4	2662.2	2485.8	2475.1	2499.2	2499.2	2488.5	2488.5
27.5°	4336.8	3779.5	2987.0	2464.4	2341.5	2342.8	2361.5	2356.2	2344.1	2336.1
30°	4625.5	3802.2	2794.5	2286.7	2206.5	2201.1	2206.5	2183.8	2147.7	2145.0
32.5°	4920.8	3774.1	2571.3	2129.0	2063.5	2051.5	2047.4	2015.4	1973.9	1961.9
35°	5188.1	3671.2	2344.1	2003.3	1927.2	1900.4	1919.1	1908.5	1871.0	1861.7
37.5°	5383.2	3480.1	2139.7	1892.4	1829.6	1822.9	1834.9	1839.0	1794.9	1785.5
40°	5514.2	3220.8	1964.6	1798.9	1810.9	1785.5	1745.4	1717.3	1704.0	1700.0
42.5°	5619.8	2950.9	1817.6	1754.8	1814.9	1741.4	1654.5	1609.1	1633.1	1643.8
45°	5741.4	2687.6	1694.6	1700.0	1794.9	1690.6	1591.7	1547.6	1557.0	1559.6
47.5°	5908.4	2366.9	1562.3	1611.8	1728.0	1655.9	1553.0	1490.1	1446.0	1426.0
50°	6139.7	1987.3	1424.7	1512.9	1662.5	1630.5	1492.8	1426.0	1344.5	1325.8
52.5°	6300.0	1633.1	1311.1	1430.0	1603.7	1579.7	1444.7	1357.8	1272.3	1256.3
55°	6213.2	1356.5	1212.2	1337.8	1526.2	1516.9	1404.6	1288.3	1221.5	1208.2
57.5°	5778.8	1181.4	1136.0	1250.9	1431.3	1463.4	1351.2	1229.5	1181.4	1172.1
60°	4950.2	1071.8	1087.9	1192.1	1353.8	1410.0	1297.7	1197.5	1165.4	1158.7
62.5°	3841.0	998.3	1051.8	1149.3	1293.7	1372.5	1268.3	1193.5	1181.4	1173.4
65°	2751.8	939.5	1013.0	1106.6	1238.9	1337.8	1257.6	1188.1	1190.8	1184.1
67.5°	1869.7	887.4	966.3	1058.5	1185.4	1307.0	1242.9	1169.4	1202.8	1194.8
70°	1308.4	836.6	911.5	997.0	1118.6	1264.3	1216.2	1141.3	1138.7	1106.6
72.5°	1021.0	769.8	836.6	911.5	1033.1	1204.1	1162.7	1078.5	1034.4	1001.0
73°	974.3	753.8	817.9	892.7	1014.4	1189.4	1148.0	1061.1	1011.7	981.0
75°	805.9	684.3	743.1	809.9	934.2	1119.9	1075.8	982.3	919.5	900.8
77.5°	633.5	585.4	641.5	701.6	823.3	1018.4	968.9	879.4	844.6	828.6
80°	469.1	485.1	534.6	588.0	713.7	910.1	866.0	776.5	931.5	892.7
82.5°	330.1	367.5	413.0	461.1	598.7	804.5	751.1	658.9	681.6	566.7
85°	195.1	240.6	283.3	324.8	431.7	666.9	620.1	525.2	430.3	410.3
87.5°	113.6	133.6	145.7	188.4	296.7	502.5	437.0	388.9	223.2	151.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)