

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: P522792

Luminaire Tested: **GALN-SA5D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30807 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 309
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

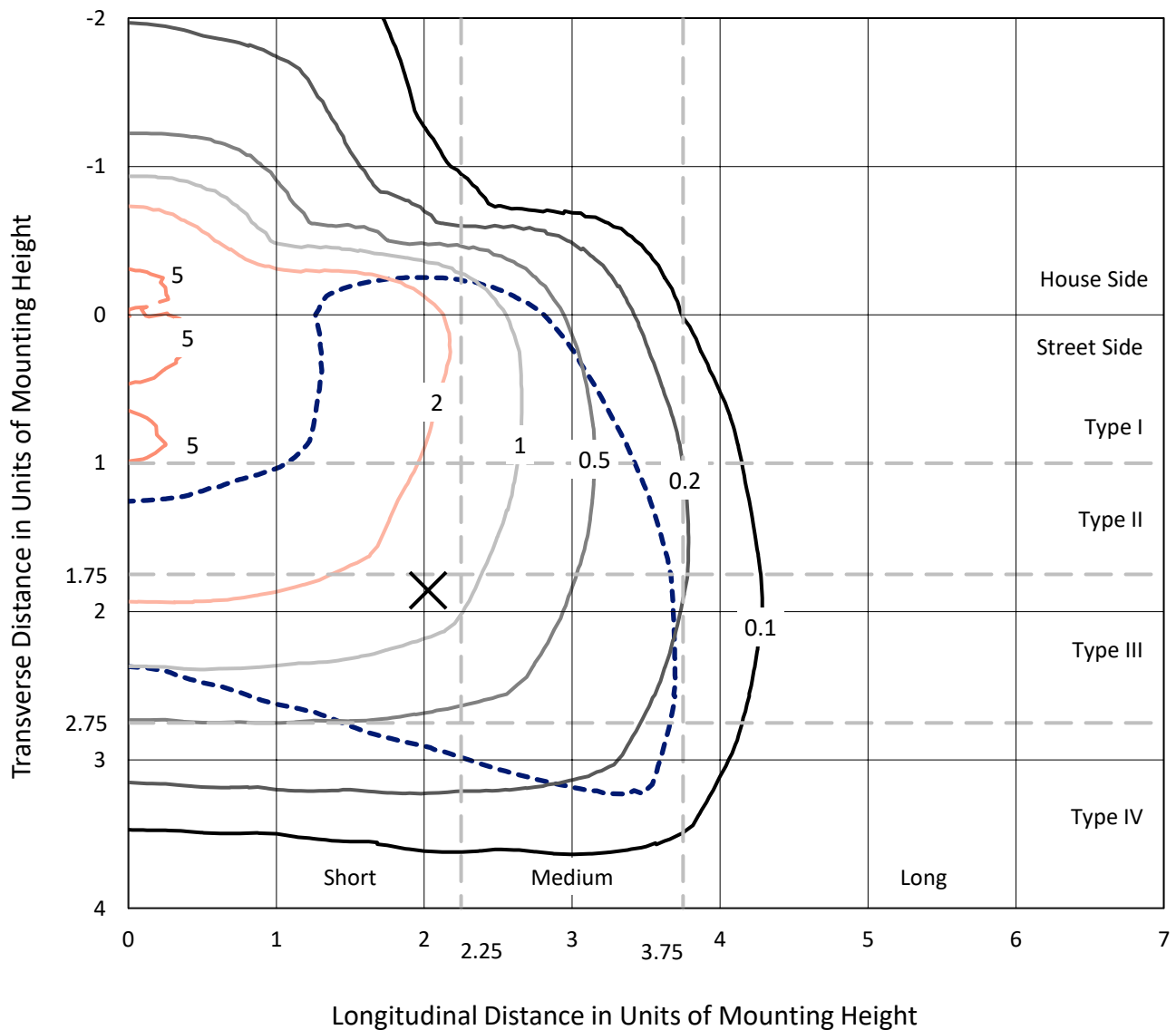


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

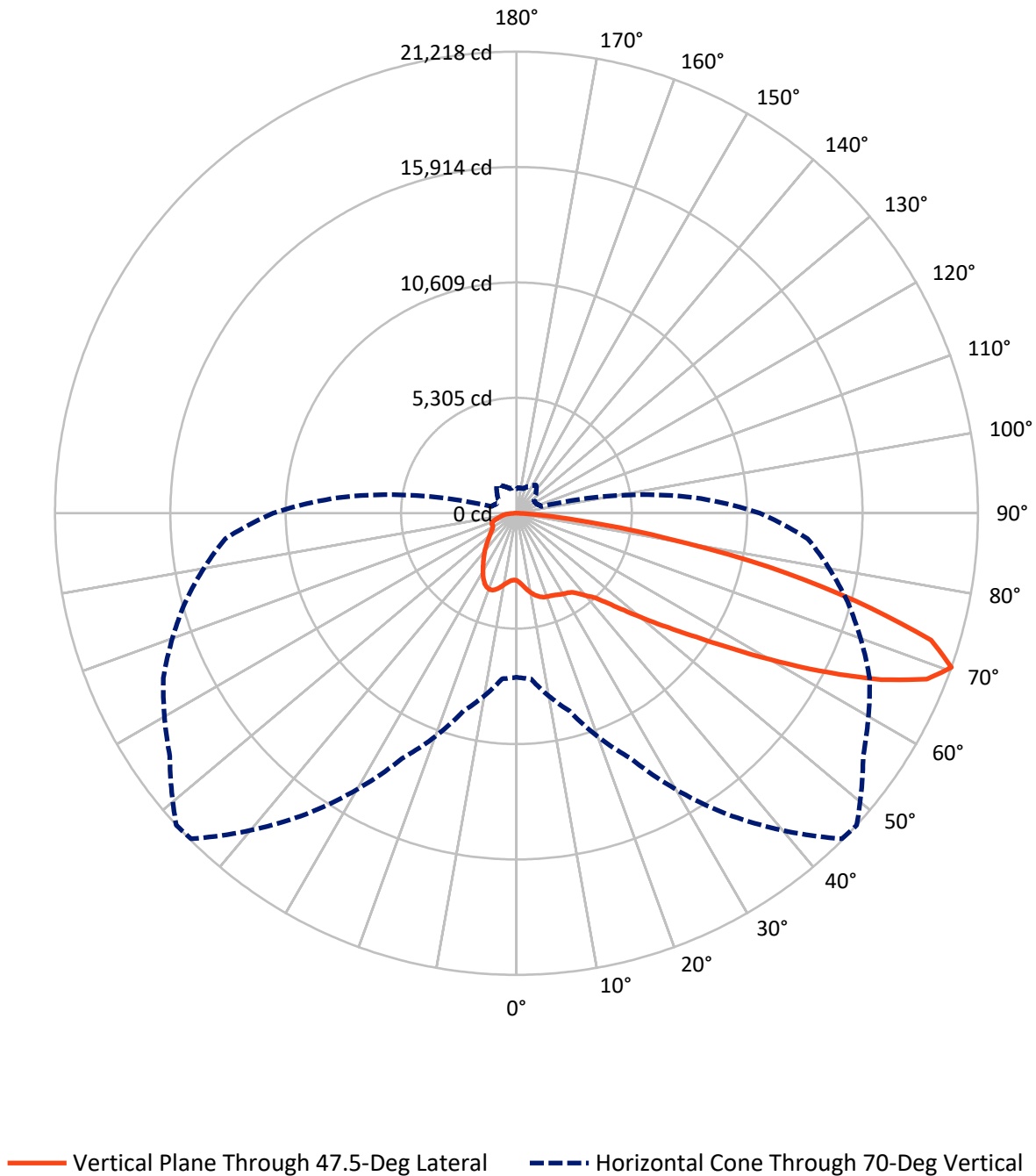


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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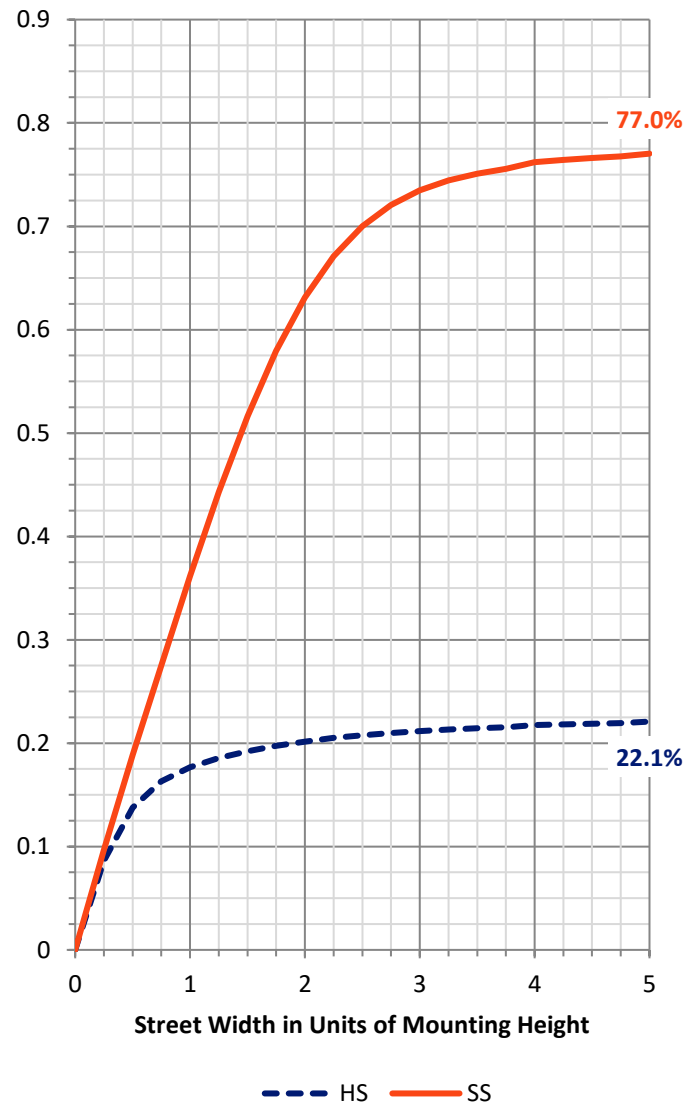
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6975.3	0.0	6975.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23831.7	0.0	23831.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	30807.0	0.0	30807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	1.0
10°-20°	1065.7	3.5
20°-30°	1772.3	5.8
30°-40°	2512.0	8.2
40°-50°	3708.2	12.0
50°-60°	6422.8	20.8
60°-70°	9072.4	29.4
70°-80°	5215.3	16.9
80°-90°	719.6	2.3
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°	30807.0	100.0
0°-180°	30807.0	100.0

Coefficient of Utilization



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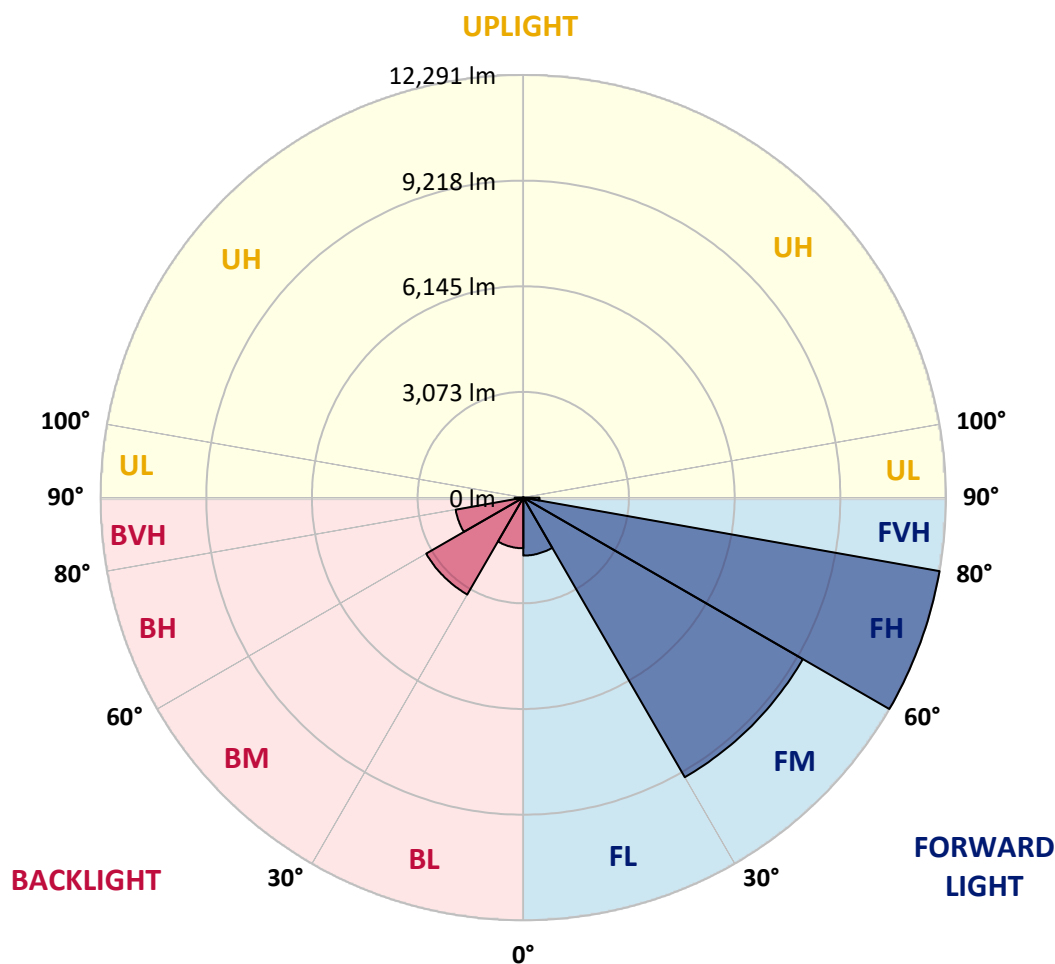
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1684.6	5.5			
FM	(30°-60°)	9386.3	30.5			
FH	(60°-80°)	12290.7	39.9			G5
FVH	(80°-90°)	470.1	1.5			G3/500
BL	(0°-30°)	1472.2	4.8	B3/2500		
BM	(30°-60°)	3256.6	10.6	B3/5000		
BH	(60°-80°)	1996.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	249.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7
2.5°	3292.1	3280.6	3278.9	3254.2	3241.0	3216.3	3206.4	3183.3	3155.3	3127.3	3100.9
5°	3550.9	3550.9	3539.4	3504.8	3450.4	3394.3	3369.6	3325.1	3246.0	3181.7	3127.3
7.5°	3816.4	3819.7	3796.6	3745.5	3668.0	3577.3	3554.2	3488.3	3376.2	3282.2	3201.5
10°	4045.5	4045.5	4014.2	3944.9	3847.7	3748.8	3725.7	3651.5	3526.2	3409.2	3303.7
12.5°	4220.3	4220.3	4179.0	4088.4	3982.9	3893.8	3867.5	3796.6	3679.5	3549.3	3415.8
15°	4334.0	4325.8	4279.6	4177.4	4075.2	3997.7	3979.6	3920.2	3813.1	3681.2	3531.2
17.5°	4338.9	4335.6	4291.1	4205.4	4116.4	4063.6	4052.1	4012.5	3928.5	3803.2	3644.9
20°	4243.3	4249.9	4220.3	4159.3	4116.4	4093.3	4088.4	4075.2	4015.8	3898.8	3740.5
22.5°	4141.1	4152.7	4124.6	4091.7	4088.4	4111.4	4114.7	4118.0	4080.1	3966.4	3821.3
25°	4116.4	4124.6	4096.6	4066.9	4085.1	4146.1	4159.3	4172.4	4142.8	4047.2	3916.9
27.5°	4241.7	4235.1	4180.7	4116.4	4127.9	4210.4	4228.5	4243.3	4228.5	4146.1	4035.6
30°	4596.1	4574.7	4465.9	4277.9	4218.6	4276.3	4294.4	4335.6	4335.6	4274.7	4164.2
32.5°	5189.6	5148.4	4948.9	4579.6	4373.6	4338.9	4357.1	4424.7	4459.3	4411.5	4291.1
35°	5910.0	5867.1	5581.9	5085.7	4657.1	4464.2	4459.3	4535.1	4627.4	4520.3	4363.7
37.5°	6633.7	6589.2	6246.3	5689.1	5070.9	4728.0	4698.3	4724.7	4764.3	4568.1	4464.2
40°	7357.4	7304.7	7004.6	6363.3	5577.0	5077.5	5000.0	4881.3	4864.8	4724.7	4658.8
42.5°	8074.5	8026.7	7875.1	7120.0	6183.7	5418.7	5300.0	5095.6	5158.3	5074.2	5016.5
45°	8798.2	8801.5	8640.0	7969.0	6915.6	6048.5	5888.6	5568.8	5717.1	5685.8	5718.8
47.5°	9439.5	9431.3	9373.6	8793.3	7823.9	6859.6	6653.5	6282.6	6536.4	6651.8	6904.1
50°	10061.0	10056.1	10059.4	9728.0	8879.0	7823.9	7596.5	7207.4	7779.4	8180.0	8631.7
52.5°	10951.2	10979.2	10779.8	10692.4	10161.6	8963.1	8712.5	8310.3	9248.3	9879.7	10761.6
55°	11844.7	11821.6	11665.0	11755.7	11503.5	10311.6	10049.5	9729.7	10883.6	11574.4	12899.8
57.5°	12370.6	12378.9	12538.8	12982.2	13160.3	11993.1	11755.7	11508.4	12721.7	13211.4	14802.2
60°	12843.7	12881.7	13341.6	14179.1	14662.1	14058.7	13847.7	13607.0	14408.2	14602.7	16454.0
62.5°	12992.1	13109.2	13912.0	15164.9	16126.0	16389.7	16127.6	15596.8	16013.9	15938.0	17573.4
65°	12251.9	12411.8	13851.0	15534.1	17433.3	18602.1	18435.6	17449.7	17382.2	16925.5	17756.4
67.5°	10303.3	10463.3	12311.3	14759.3	17974.0	20517.7	20351.2	18801.5	18213.0	17017.8	16371.6
70°	7538.8	7639.3	9406.5	12426.7	16887.6	21160.6	21218.3	19461.0	17916.3	15763.3	13442.2
72.5°	4343.9	4566.4	5804.5	8742.2	13796.6	19535.1	19935.7	18089.4	16040.2	13150.4	9398.3
75°	1867.8	1872.7	2683.8	4822.0	9343.9	15702.3	16089.7	14995.1	12596.5	9093.3	5018.1
77.5°	888.6	905.0	1180.4	2153.0	5143.4	10849.0	11894.2	10593.5	8056.4	4368.6	1895.8
80°	577.0	588.5	722.1	1068.3	2522.3	6290.8	7019.5	6111.1	3554.2	1561.2	817.7
82.5°	349.5	352.8	483.0	652.8	1388.1	2848.7	3358.1	2652.5	1516.7	934.7	481.4
85°	212.7	214.3	293.4	403.9	842.4	984.2	1010.6	1002.3	890.2	611.6	257.2
87.5°	102.2	105.5	151.7	191.2	331.4	305.0	288.5	334.7	420.4	329.7	110.5
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°	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7	3092.7
2.5°	3089.4	3084.4	3072.9	3067.9	3064.6	3066.3	3064.6	3064.6	3066.3	3066.3	3066.3
5°	3104.2	3095.9	3077.8	3077.8	3087.7	3110.8	3132.2	3148.7	3166.8	3165.2	3165.2
7.5°	3168.5	3153.6	3132.2	3138.8	3163.5	3199.8	3237.7	3274.0	3310.3	3313.6	3311.9
10°	3262.5	3247.6	3224.5	3232.8	3272.3	3326.7	3374.6	3427.3	3466.9	3478.4	3475.1
12.5°	3369.6	3339.9	3320.1	3343.2	3405.9	3478.4	3524.6	3564.1	3592.2	3608.6	3602.0
15°	3478.4	3450.4	3427.3	3475.1	3550.9	3618.5	3641.6	3648.2	3653.2	3669.6	3666.3
17.5°	3583.9	3546.0	3537.8	3600.4	3672.9	3702.6	3689.4	3661.4	3640.0	3653.2	3651.5
20°	3677.9	3648.2	3644.9	3707.6	3735.6	3707.6	3651.5	3602.0	3564.1	3567.4	3565.8
22.5°	3766.9	3743.8	3747.1	3773.5	3729.0	3633.4	3541.1	3473.5	3432.3	3440.5	3445.4
25°	3865.8	3842.7	3851.0	3808.1	3661.4	3494.9	3361.4	3303.7	3287.2	3303.7	3315.2
27.5°	3994.4	3979.6	3974.6	3809.8	3541.1	3290.5	3138.8	3117.4	3132.2	3168.5	3186.6
30°	4132.9	4132.9	4106.5	3781.7	3376.2	3044.8	2913.0	2916.3	2967.4	3018.5	3036.6
32.5°	4266.4	4294.4	4212.0	3705.9	3163.5	2805.8	2705.2	2708.5	2753.1	2815.7	2832.2
35°	4376.9	4457.6	4302.7	3567.4	2913.0	2604.7	2528.9	2484.3	2486.0	2533.8	2547.0
37.5°	4528.5	4678.5	4355.4	3361.4	2645.9	2433.2	2347.5	2270.0	2218.9	2199.1	2199.1
40°	4792.3	5013.2	4368.6	3056.4	2393.7	2270.0	2148.0	2055.7	1956.8	1867.8	1851.3
42.5°	5239.0	5517.6	4342.2	2705.2	2166.2	2090.3	1971.6	1857.9	1721.1	1595.8	1585.9
45°	6030.3	6173.8	4271.4	2340.9	1963.4	1917.2	1801.8	1678.2	1533.1	1421.0	1412.8
47.5°	7298.1	7095.3	4177.4	2017.8	1778.8	1765.6	1676.6	1533.1	1388.1	1310.6	1302.3
50°	9149.4	8546.0	4164.2	1783.7	1630.4	1637.0	1564.5	1432.6	1305.6	1241.3	1231.5
52.5°	11378.2	10298.4	4251.6	1618.9	1500.2	1524.9	1488.6	1366.6	1254.5	1200.1	1190.2
55°	13541.1	11874.4	4304.3	1490.3	1378.2	1424.3	1429.3	1327.1	1224.9	1170.5	1163.9
57.5°	15296.8	13061.3	4070.2	1373.2	1272.7	1343.6	1379.8	1304.0	1210.0	1168.8	1162.2
60°	16518.3	13621.8	3404.2	1269.4	1195.2	1279.3	1361.7	1305.6	1246.3	1251.2	1254.5
62.5°	16907.4	13372.9	2553.6	1191.9	1142.4	1257.8	1391.4	1373.2	1312.2	1350.2	1356.7
65°	16262.8	12344.2	1851.3	1130.9	1096.3	1272.7	1480.4	1422.7	1289.2	1317.2	1317.2
67.5°	14104.9	10634.7	1440.8	1074.8	1043.5	1300.7	1569.4	1417.7	1234.8	1267.7	1238.0
70°	11188.6	8226.2	1200.1	1012.2	987.5	1259.5	1577.6	1366.6	1170.5	1177.1	1121.0
72.5°	7425.0	5408.8	1032.0	952.9	901.7	1132.5	1510.1	1300.7	1107.8	1069.9	1013.8
75°	3638.3	2697.0	900.1	878.7	789.6	985.8	1417.7	1238.0	1040.2	980.9	949.6
77.5°	1409.5	1147.4	768.2	784.7	687.4	868.8	1295.7	1149.0	951.2	870.4	845.7
80°	684.1	651.2	629.7	654.5	565.4	740.2	1183.6	1071.5	868.8	779.8	743.5
82.5°	425.3	402.2	483.0	509.4	435.2	675.9	1122.7	1005.6	764.9	646.2	616.6
85°	216.0	230.8	323.1	347.8	311.6	537.4	924.8	755.0	552.3	458.3	461.6
87.5°	82.4	110.5	169.8	183.0	166.5	283.5	509.4	440.2	354.4	240.7	222.6
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)