

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: P192536

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31934.3 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 257
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



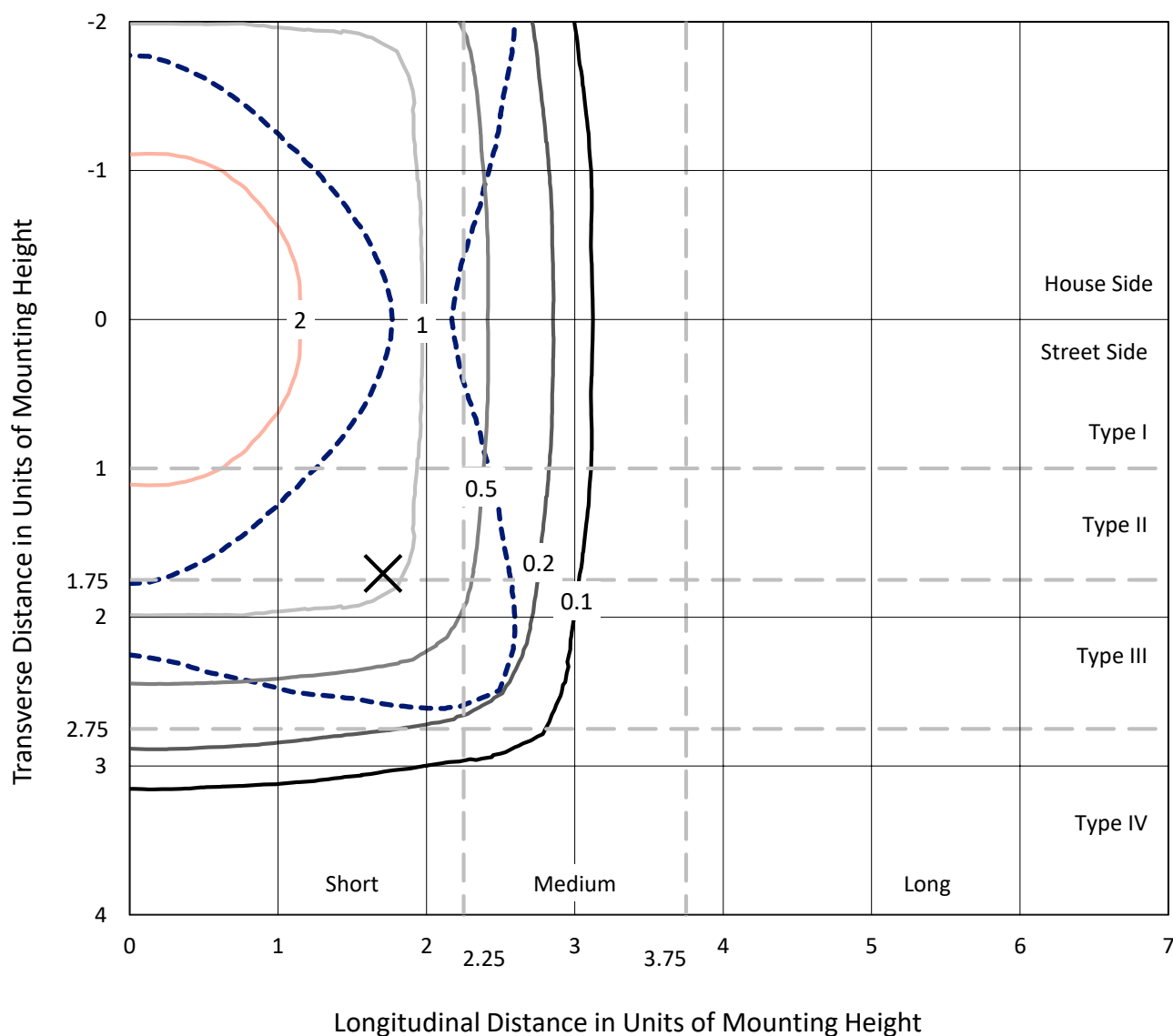
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

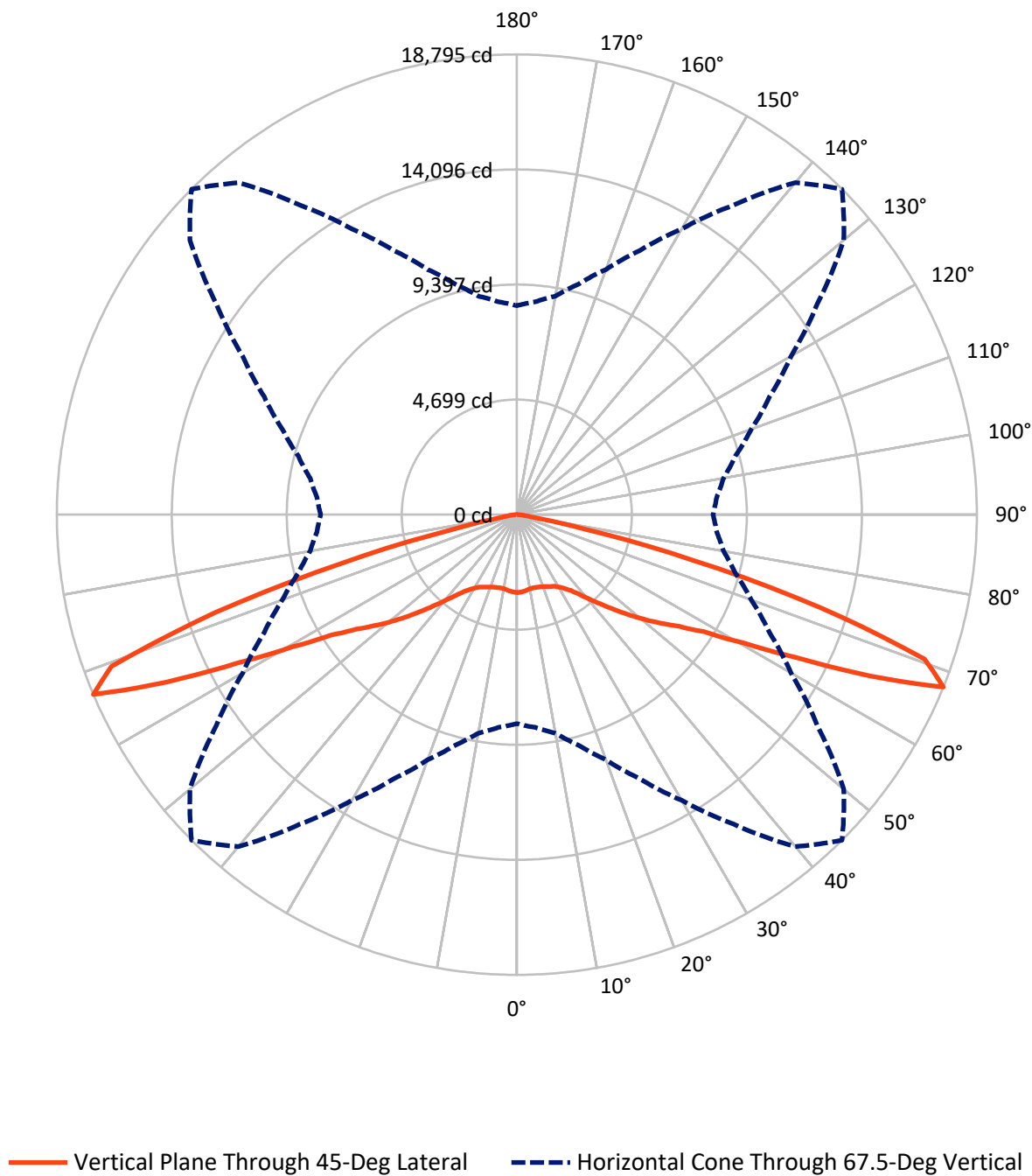


Based on 30 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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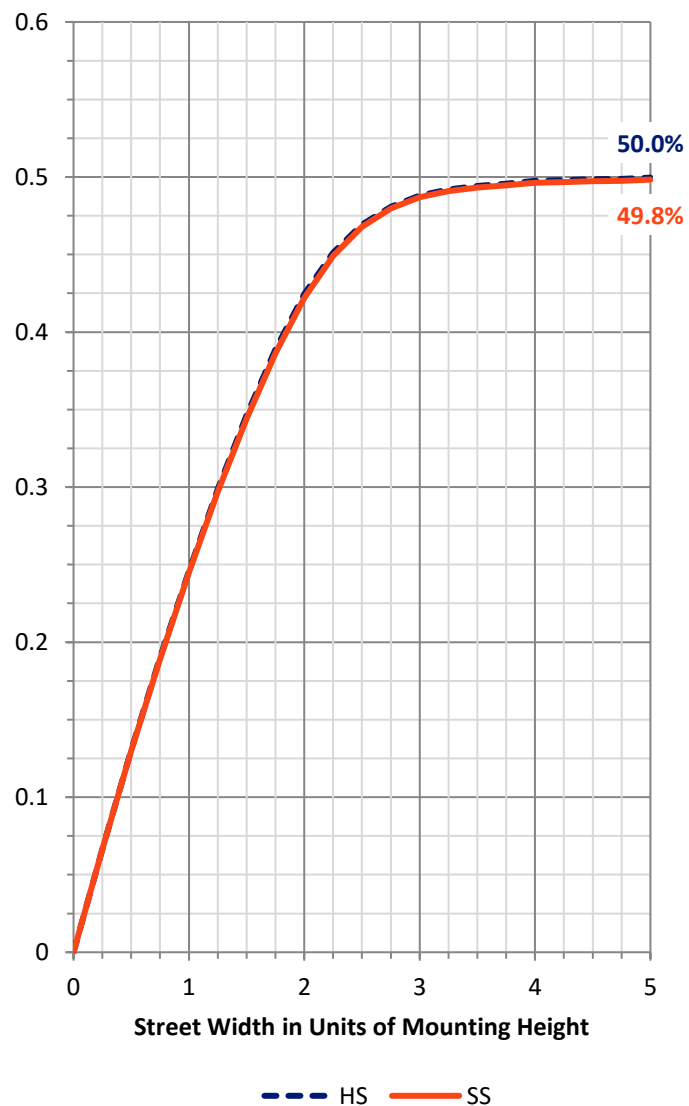
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15967.2	0.0	15967.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15967.2	0.0	15967.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	31934.3	0.0	31934.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	0.9
10°-20°	864.3	2.7
20°-30°	1469.3	4.6
30°-40°	2401.9	7.5
40°-50°	4287.9	13.4
50°-60°	7229.4	22.6
60°-70°	11219.0	35.1
70°-80°	3941.9	12.3
80°-90°	222.8	0.7
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°	31934.3	100.0
0°-180°	31934.3	100.0

Coefficient of Utilization



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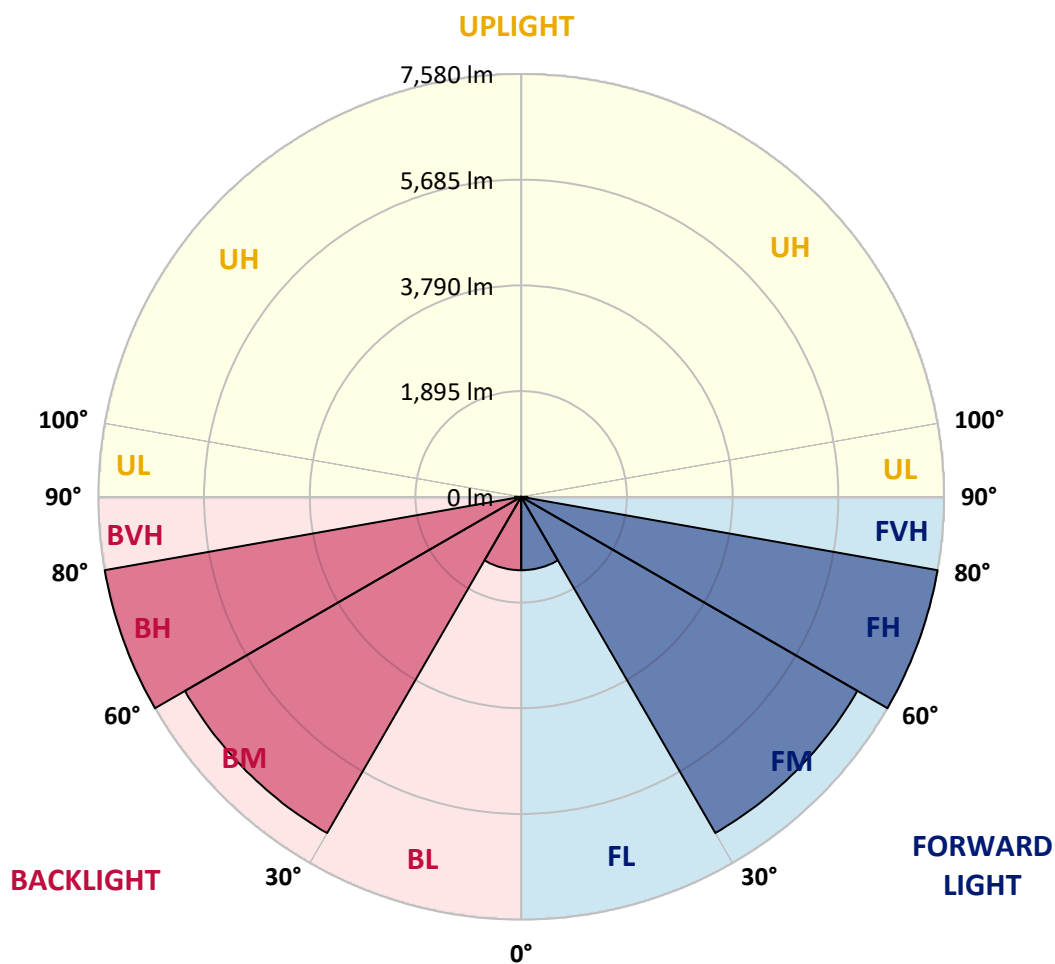
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.8	4.1			
FM	(30°-60°)	6959.6	21.8			
FH	(60°-80°)	7580.4	23.7			G4/12000
FVH	(80°-90°)	111.4	0.3			G2/225
BL	(0°-30°)	1315.8	4.1	B3/2500		
BM	(30°-60°)	6959.6	21.8	B4/8500		
BH	(60°-80°)	7580.4	23.7	B5		G4/12000
BVH	(80°-90°)	111.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	3170.6	3173.6	3173.6	3173.6	3172.2	3172.2	3169.2	3172.2	3170.6	3166.3	3167.8
5°	3144.2	3147.1	3147.1	3145.7	3150.1	3148.7	3144.2	3147.1	3145.7	3142.8	3144.2
7.5°	3106.0	3110.4	3110.4	3109.0	3113.4	3111.9	3109.0	3110.4	3110.4	3106.0	3106.0
10°	3063.4	3066.4	3066.4	3064.9	3072.3	3072.3	3070.7	3075.2	3076.6	3072.3	3069.3
12.5°	3023.7	3028.2	3028.2	3034.0	3041.4	3044.3	3051.7	3057.5	3063.4	3062.0	3056.1
15°	3000.3	3003.2	3009.1	3016.4	3028.2	3038.5	3050.2	3063.4	3075.2	3078.2	3069.3
17.5°	2985.6	2990.0	2998.8	3009.1	3025.3	3042.9	3060.5	3078.2	3094.2	3100.1	3089.9
20°	2981.1	2984.1	2992.9	3010.5	3032.6	3059.0	3084.0	3104.6	3126.6	3133.9	3126.6
22.5°	2990.0	2995.9	3006.2	3026.7	3056.1	3089.9	3119.3	3147.1	3175.1	3188.3	3178.1
25°	3029.6	3035.5	3048.8	3075.2	3107.5	3142.8	3176.5	3208.8	3233.7	3246.9	3239.6
27.5°	3103.1	3110.4	3126.6	3153.0	3188.3	3226.4	3263.1	3289.6	3310.1	3314.6	3305.7
30°	3213.2	3229.3	3248.5	3277.9	3319.0	3351.3	3388.0	3411.5	3436.4	3436.4	3429.1
32.5°	3385.1	3401.2	3421.8	3449.7	3482.0	3517.3	3549.5	3570.0	3596.5	3598.0	3580.3
35°	3642.0	3649.4	3667.1	3684.7	3714.0	3744.9	3772.7	3786.0	3808.0	3809.5	3793.3
37.5°	3981.3	3982.7	3994.5	4000.4	4026.9	4060.6	4087.1	4095.8	4116.4	4113.5	4097.3
40°	4376.4	4383.7	4388.1	4396.9	4424.8	4457.1	4485.0	4489.5	4511.5	4507.1	4486.5
42.5°	4833.1	4836.1	4861.0	4874.2	4900.6	4916.7	4951.9	4956.4	4982.9	4971.1	4947.6
45°	5345.6	5372.1	5395.6	5422.0	5449.9	5469.0	5496.9	5491.0	5508.7	5491.0	5477.7
47.5°	5884.6	5903.6	5956.5	5997.7	6043.1	6059.3	6099.0	6081.4	6099.0	6074.0	6069.6
50°	6477.9	6511.7	6557.2	6604.1	6652.6	6679.0	6730.5	6708.4	6731.9	6708.4	6695.2
52.5°	7062.3	7071.2	7171.0	7240.1	7307.6	7338.4	7369.3	7359.0	7360.5	7359.0	7345.8
55°	7617.4	7638.0	7737.8	7831.9	7949.3	8036.0	8088.9	8083.0	8069.8	8056.6	8034.5
57.5°	8243.1	8263.6	8378.2	8494.3	8627.8	8751.2	8858.4	8968.5	9011.1	9022.8	8974.4
60°	9088.9	9087.5	9240.3	9381.2	9572.1	9755.6	9990.6	10230.1	10504.6	10632.4	10463.5
62.5°	9949.5	9984.7	10205.1	10454.7	10848.4	11231.7	11664.8	12090.7	12525.4	12879.4	12503.4
65°	9846.8	9981.8	10309.3	10874.8	11601.7	12465.2	13399.2	14387.6	15280.5	15894.3	15205.5
67.5°	8533.8	8726.2	9059.6	9746.9	10655.9	11901.3	13469.7	15424.3	17696.2	18794.8	17433.4
70°	6185.6	6402.9	6752.4	7423.6	8323.8	9507.5	11211.1	13557.9	16565.5	17672.8	16173.3
72.5°	3078.2	3195.7	3411.5	3838.9	4520.3	5480.7	7025.6	9281.3	11942.4	12958.7	11588.5
75°	1045.6	1099.9	1136.7	1276.1	1492.1	1869.5	2637.5	4057.7	6190.0	7420.7	6101.9
77.5°	603.5	605.1	630.0	655.0	691.7	732.8	835.7	1097.1	1897.4	2694.8	1963.5
80°	390.6	389.2	409.7	428.9	453.8	474.3	480.2	508.2	585.9	694.7	621.2
82.5°	202.6	227.6	273.1	298.2	345.2	353.9	342.2	331.9	350.9	364.2	373.0
85°	111.7	96.9	145.5	187.9	208.5	211.5	211.5	199.7	207.0	202.6	220.2
87.5°	51.4	47.0	57.3	92.6	98.5	83.7	88.1	77.8	55.8	54.3	61.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	3167.8	3169.2	3169.2	3173.6	3175.1	3178.1	3180.9	3182.4
5°	3142.8	3147.1	3144.2	3148.7	3148.7	3151.6	3151.6	3153.0
7.5°	3106.0	3110.4	3110.4	3110.4	3109.0	3113.4	3113.4	3113.4
10°	3067.9	3070.7	3069.3	3066.4	3063.4	3067.9	3066.4	3064.9
12.5°	3056.1	3048.8	3042.9	3039.9	3034.0	3035.5	3031.1	3031.1
15°	3063.4	3050.2	3039.9	3035.5	3029.6	3026.7	3023.7	3025.3
17.5°	3082.5	3066.4	3053.1	3045.8	3038.5	3034.0	3028.2	3029.6
20°	3116.3	3097.2	3078.2	3063.4	3050.2	3042.9	3038.5	3037.0
22.5°	3166.3	3138.4	3110.4	3088.4	3070.7	3060.5	3056.1	3053.1
25°	3223.4	3192.7	3160.4	3135.4	3117.8	3104.6	3095.8	3095.8
27.5°	3295.5	3270.4	3241.1	3211.7	3195.7	3182.4	3176.5	3173.6
30°	3415.9	3392.4	3368.9	3341.0	3320.4	3307.2	3296.9	3288.1
32.5°	3570.0	3551.0	3532.0	3511.4	3492.3	3474.7	3458.5	3451.2
35°	3787.5	3772.7	3759.5	3736.0	3728.7	3718.4	3709.6	3702.2
37.5°	4087.1	4081.2	4081.2	4056.1	4050.3	4045.9	4037.1	4038.6
40°	4480.6	4486.5	4479.1	4470.4	4465.9	4454.2	4454.2	4464.5
42.5°	4946.1	4950.5	4966.7	4951.9	4968.1	4953.5	4944.6	4951.9
45°	5486.6	5502.8	5535.1	5520.4	5530.6	5505.7	5474.9	5476.3
47.5°	6093.1	6107.8	6121.0	6110.8	6112.2	6071.1	6029.9	6019.6
50°	6723.2	6728.9	6736.3	6721.6	6724.6	6679.0	6632.0	6633.5
52.5°	7345.8	7373.7	7403.1	7363.4	7354.6	7303.2	7237.2	7210.7
55°	8058.0	8097.6	8063.9	7994.9	7925.8	7856.9	7770.2	7755.6
57.5°	8936.2	8868.7	8762.9	8632.2	8536.8	8439.8	8351.8	8315.0
60°	10158.1	9904.1	9713.1	9519.2	9397.4	9278.4	9162.4	9144.8
62.5°	11885.1	11446.0	11065.7	10664.8	10337.2	10081.7	9877.6	9820.3
65°	14049.7	13011.4	12111.3	11271.3	10541.4	9990.6	9644.1	9491.4
67.5°	14980.9	12930.8	11387.3	10194.8	9240.3	8573.5	8199.1	8012.5
70°	13164.2	10723.5	9044.9	7851.0	6981.5	6270.8	5931.5	5731.8
72.5°	9056.6	6821.5	5394.0	4402.8	3708.2	3113.4	2878.4	2860.7
75°	4066.4	2693.3	1856.4	1430.4	1204.2	1047.1	998.6	961.9
77.5°	1138.2	841.6	750.4	702.0	655.0	600.6	580.0	584.5
80°	553.6	522.8	502.3	471.5	428.9	383.3	362.7	371.6
82.5°	367.1	362.7	376.0	353.9	292.3	248.2	208.5	190.8
85°	223.2	226.1	230.5	232.0	196.7	138.0	94.0	105.8
87.5°	88.1	101.3	110.2	114.5	107.2	66.1	52.9	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)