

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: P192627

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43798.8 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 374
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



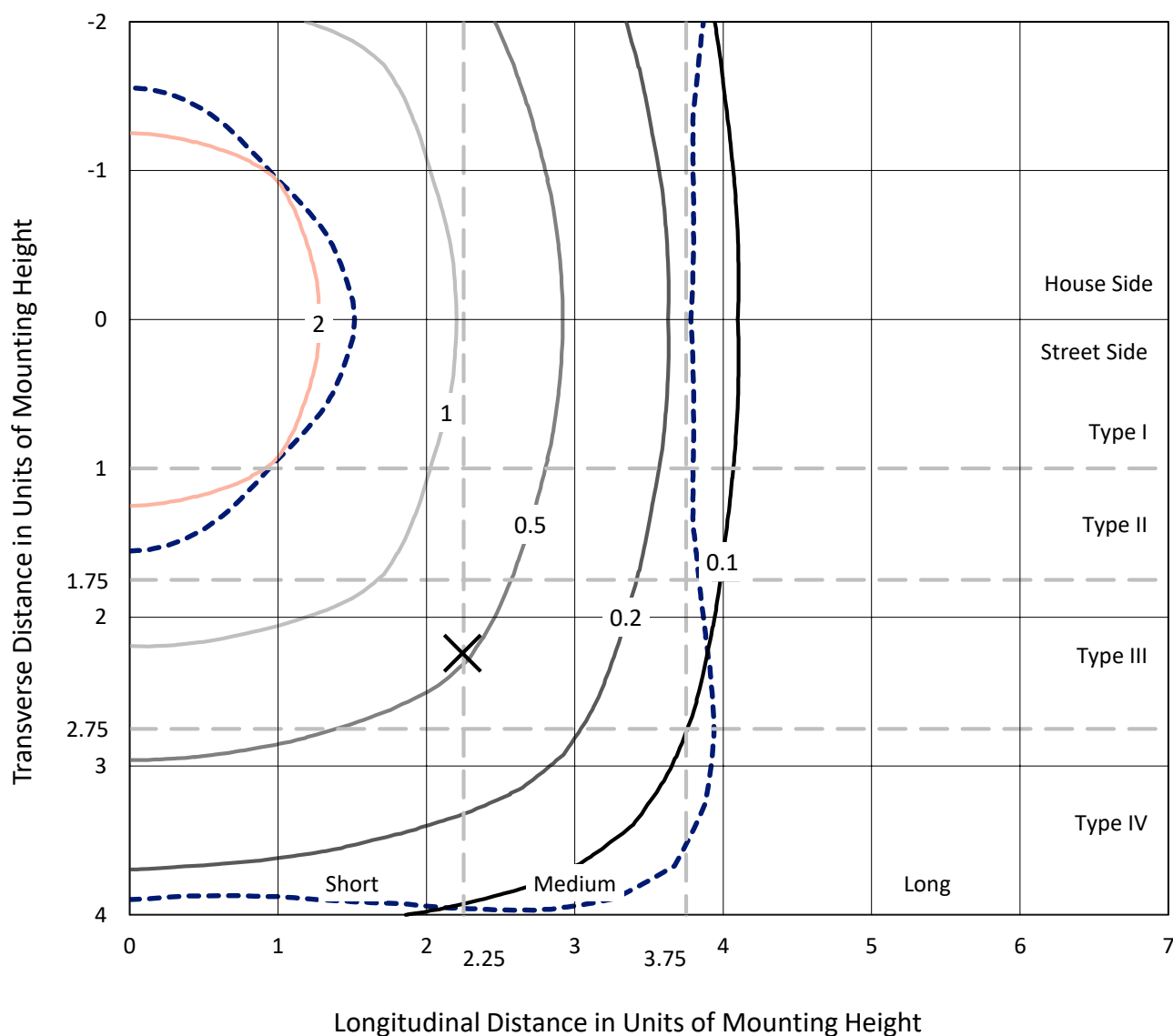
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

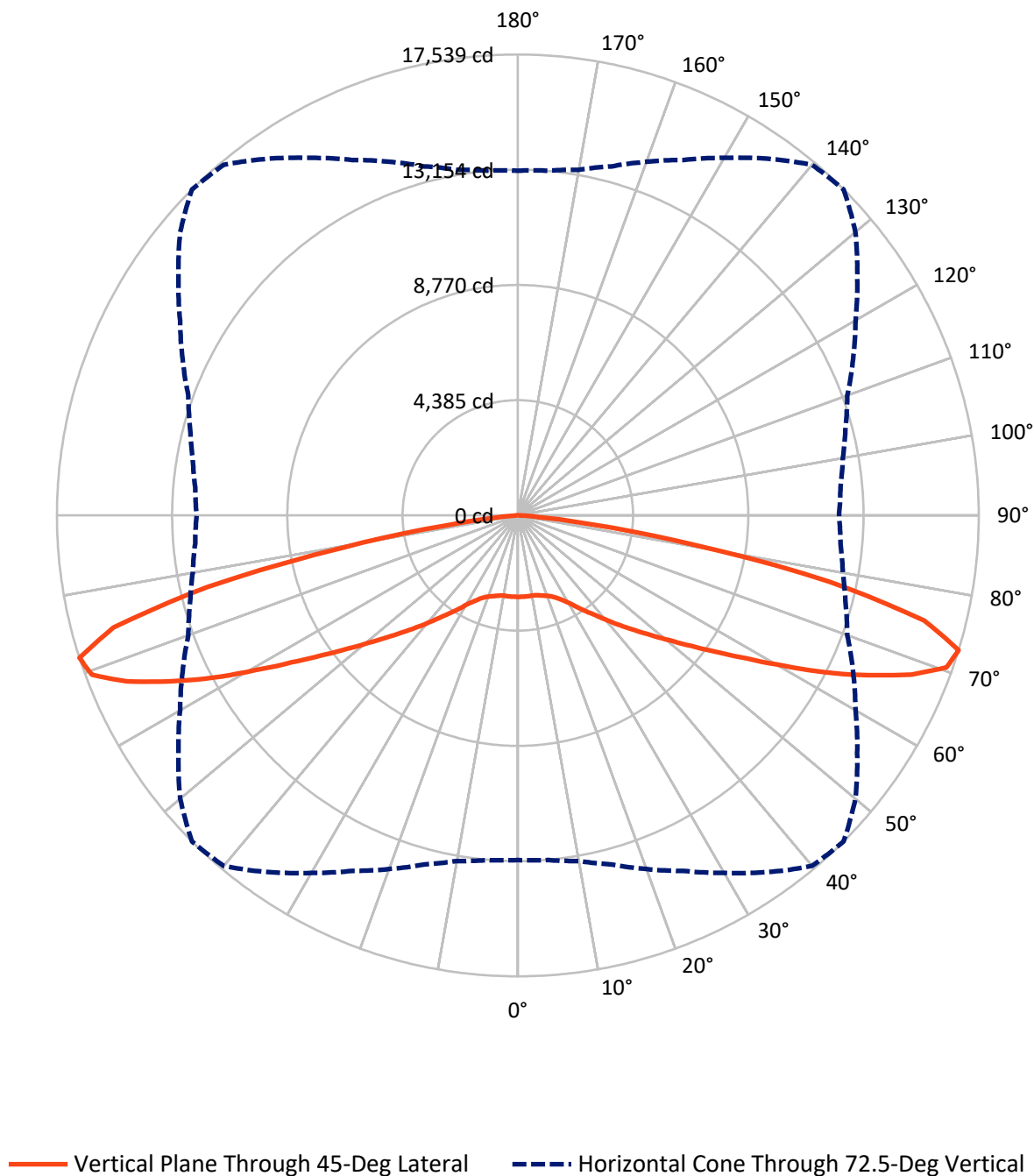


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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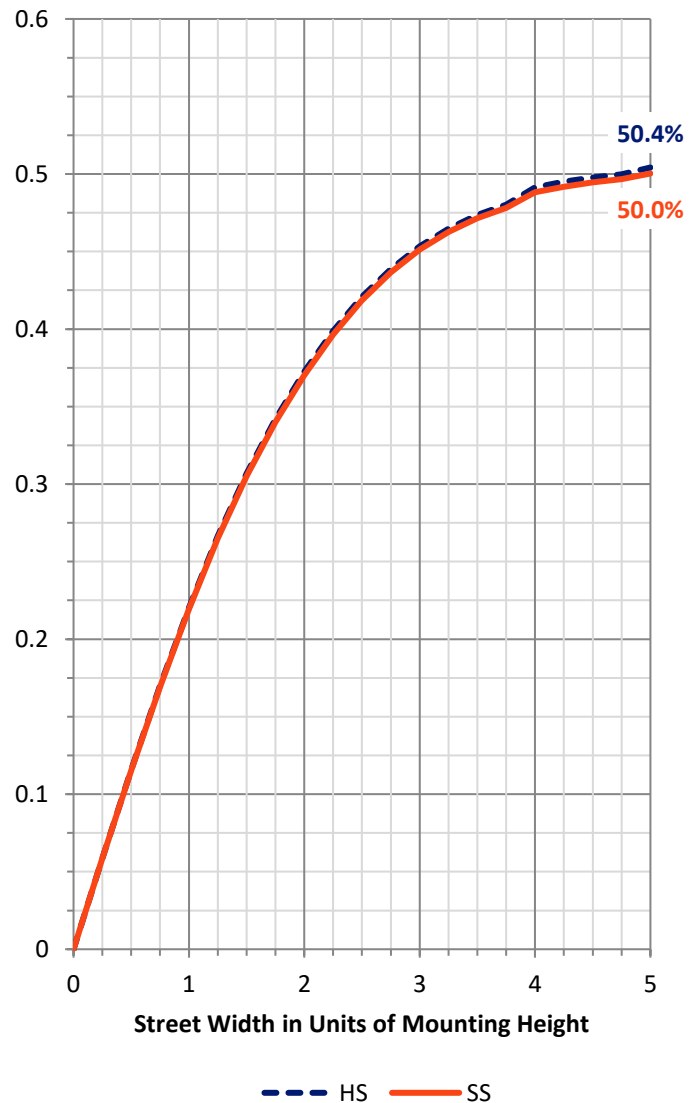
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21899.4	0.0	21899.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21899.4	0.0	21899.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	43798.8	0.0	43798.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	0.7
10°-20°	899.5	2.1
20°-30°	1643.8	3.8
30°-40°	2834.1	6.5
40°-50°	4844.9	11.1
50°-60°	7853.0	17.9
60°-70°	13027.8	29.7
70°-80°	11474.4	26.2
80°-90°	925.1	2.1
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°	43798.8	100.0
0°-180°	43798.8	100.0

Coefficient of Utilization



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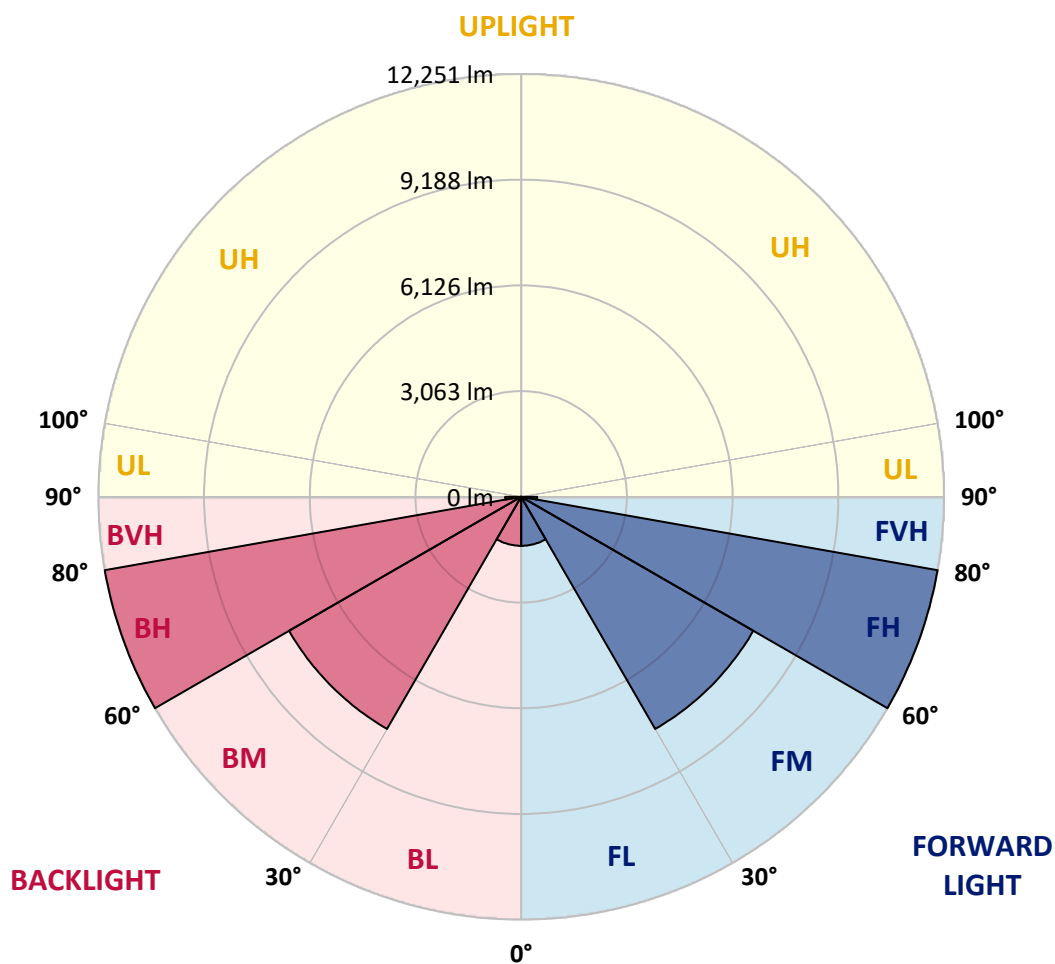
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.7	3.2			
FM	(30°-60°)	7766.0	17.7			
FH	(60°-80°)	12251.1	28.0			G5
FVH	(80°-90°)	462.6	1.1			G3/500
BL	(0°-30°)	1419.7	3.2	B3/2500		
BM	(30°-60°)	7766.0	17.7	B4/8500		
BH	(60°-80°)	12251.1	28.0	B5		G5
BVH	(80°-90°)	462.6	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7
2.5°	3101.7	3103.6	3105.7	3103.6	3103.6	3101.7	3099.5	3101.7	3099.5	3095.7	3097.6
5°	3111.7	3115.7	3115.7	3111.7	3113.7	3111.7	3107.7	3109.6	3105.7	3099.5	3099.5
7.5°	3123.7	3125.7	3125.7	3121.7	3123.7	3119.7	3115.7	3113.7	3109.6	3101.7	3095.7
10°	3141.9	3143.8	3141.9	3137.8	3137.8	3131.8	3121.7	3117.7	3109.6	3097.6	3091.6
12.5°	3161.9	3163.9	3161.9	3157.9	3155.9	3145.8	3137.8	3131.8	3125.7	3115.7	3105.7
15°	3190.1	3194.0	3190.1	3181.9	3175.9	3168.0	3163.9	3165.9	3168.0	3159.9	3149.8
17.5°	3242.3	3244.2	3238.2	3220.2	3212.1	3204.1	3204.1	3208.1	3214.1	3210.1	3200.1
20°	3338.6	3332.6	3318.6	3296.5	3286.4	3272.5	3270.3	3272.5	3272.5	3270.3	3262.4
22.5°	3459.2	3455.3	3437.1	3409.0	3394.9	3386.9	3374.8	3364.7	3362.8	3356.8	3348.7
25°	3603.8	3601.8	3579.8	3555.7	3545.6	3535.5	3525.5	3511.5	3499.3	3485.4	3477.2
27.5°	3788.7	3780.6	3748.4	3736.4	3722.4	3716.4	3702.2	3686.2	3676.1	3658.1	3648.0
30°	3991.6	3991.6	3965.4	3961.4	3961.4	3947.3	3931.2	3903.2	3885.0	3867.0	3861.0
32.5°	4194.5	4196.4	4170.3	4178.4	4184.4	4194.5	4198.5	4188.5	4176.3	4174.4	4162.3
35°	4487.8	4479.7	4453.6	4459.6	4457.6	4455.6	4455.6	4477.7	4481.7	4485.7	4461.6
37.5°	4851.3	4851.3	4825.2	4825.2	4813.2	4801.1	4785.0	4799.1	4821.2	4827.2	4811.1
40°	5267.2	5281.3	5249.1	5247.0	5251.1	5212.9	5194.8	5216.9	5231.0	5255.2	5237.1
42.5°	5757.3	5747.2	5715.2	5711.1	5689.0	5677.0	5660.8	5679.0	5701.0	5717.1	5723.1
45°	6227.3	6219.4	6183.2	6183.2	6161.1	6151.1	6159.1	6189.2	6199.3	6221.3	6243.4
47.5°	6691.4	6681.3	6657.2	6667.3	6669.3	6687.4	6713.6	6741.7	6769.7	6799.9	6809.9
50°	7165.4	7167.5	7141.4	7165.4	7195.6	7245.8	7316.1	7362.3	7420.6	7458.8	7470.8
52.5°	7597.4	7605.4	7633.5	7689.7	7750.1	7848.5	7969.1	8081.5	8177.9	8242.2	8238.2
55°	8115.7	8127.7	8196.0	8292.4	8390.9	8539.4	8718.4	8917.2	9078.0	9170.3	9112.0
57.5°	8778.6	8804.6	8881.0	9011.6	9158.2	9351.1	9596.1	9895.5	10144.6	10269.2	10174.8
60°	9688.6	9704.6	9797.1	9941.7	10118.5	10357.6	10685.0	11086.7	11438.3	11603.0	11494.5
62.5°	10887.9	10917.9	10992.3	11139.0	11319.8	11591.0	11990.6	12492.9	12930.9	13159.8	12914.8
65°	12320.2	12416.6	12478.8	12627.5	12796.2	13083.5	13501.3	14039.7	14509.7	14660.4	14377.2
67.5°	13738.4	13822.7	13931.2	14102.0	14272.7	14596.2	14983.9	15506.2	16022.5	16159.0	15719.1
70°	14359.1	14407.4	14576.1	14809.1	15136.6	15518.2	15966.2	16552.8	17191.5	17304.1	16745.6
72.5°	13115.7	13163.9	13352.7	13748.4	14319.0	14925.6	15707.0	16568.8	17412.5	17539.1	16769.6
75°	9919.6	9841.3	10120.4	10644.8	11414.2	12259.9	13352.7	14588.1	15807.5	15966.2	15048.2
77.5°	5126.6	5116.5	5327.4	5978.2	6896.3	7858.6	9061.9	10458.0	11651.2	12133.4	11386.0
80°	1444.3	1460.5	1560.9	1884.2	2420.6	3115.7	4055.8	5363.5	6339.9	6838.1	6420.2
82.5°	566.5	610.6	648.9	709.1	779.4	881.8	1177.2	1751.8	2350.2	2808.3	2300.1
85°	202.9	217.0	307.3	363.7	369.7	389.7	443.9	518.3	624.8	745.2	612.7
87.5°	76.4	84.3	98.5	162.7	160.7	146.6	178.7	186.9	140.6	128.6	158.7
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°	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7	3101.7
2.5°	3093.5	3095.7	3095.7	3097.6	3099.5	3099.5	3103.6	3103.6
5°	3095.7	3095.7	3091.6	3093.5	3091.6	3091.6	3093.5	3093.5
7.5°	3091.6	3089.7	3085.6	3083.6	3079.6	3079.6	3079.6	3079.6
10°	3085.6	3083.6	3079.6	3077.5	3075.5	3075.5	3075.5	3075.5
12.5°	3101.7	3095.7	3091.6	3089.7	3089.7	3089.7	3089.7	3089.7
15°	3143.8	3129.7	3119.7	3119.7	3121.7	3125.7	3125.7	3129.7
17.5°	3196.1	3180.0	3169.9	3161.9	3165.9	3171.9	3175.9	3180.0
20°	3258.3	3250.3	3236.3	3228.2	3228.2	3236.3	3240.2	3242.3
22.5°	3344.8	3338.6	3332.6	3322.6	3322.6	3326.6	3334.7	3334.7
25°	3473.3	3469.2	3465.2	3457.2	3455.3	3455.3	3459.2	3463.2
27.5°	3634.0	3635.9	3632.0	3629.9	3623.9	3622.0	3628.0	3626.0
30°	3848.8	3858.9	3869.0	3861.0	3851.0	3845.0	3838.9	3830.8
32.5°	4140.2	4128.2	4120.0	4106.1	4087.9	4071.9	4059.8	4045.8
35°	4415.3	4395.3	4387.3	4399.4	4397.3	4387.3	4373.2	4361.2
37.5°	4752.9	4748.9	4752.9	4774.9	4771.1	4780.9	4752.9	4750.9
40°	5178.8	5182.8	5210.9	5237.1	5251.1	5265.1	5249.1	5233.0
42.5°	5673.0	5670.9	5680.9	5717.1	5741.2	5757.3	5723.1	5719.1
45°	6195.2	6181.2	6189.2	6219.4	6243.4	6261.5	6223.4	6223.4
47.5°	6769.7	6745.6	6719.6	6753.7	6767.7	6779.7	6749.7	6739.6
50°	7410.6	7360.4	7304.1	7318.1	7318.1	7314.2	7276.0	7273.9
52.5°	8145.9	8053.4	7950.9	7912.8	7890.7	7866.5	7800.2	7768.2
55°	8991.5	8852.9	8692.2	8593.8	8541.6	8475.2	8364.8	8334.7
57.5°	9979.8	9762.9	9485.7	9365.1	9248.7	9140.2	9017.6	8983.6
60°	11151.0	10831.6	10464.0	10241.0	10114.4	10010.0	9883.5	9877.4
62.5°	12456.7	11952.5	11536.6	11335.8	11243.5	11151.0	11030.5	11046.5
65°	13784.5	13258.3	12868.5	12705.9	12619.5	12543.2	12422.6	12440.7
67.5°	15094.3	14610.2	14182.3	14015.6	13919.2	13822.7	13714.3	13732.4
70°	16034.5	15433.9	14951.7	14582.1	14351.1	14090.0	13921.2	13878.9
72.5°	15765.3	14839.3	14073.9	13340.7	12910.7	12561.2	12324.1	12221.7
75°	13644.0	12378.4	11394.1	10494.2	9987.9	9576.1	9276.7	9090.0
77.5°	10132.4	8710.2	7547.2	6510.6	5691.0	5140.6	4752.9	4501.8
80°	5546.3	4218.5	3083.6	2167.4	1593.0	1323.7	1169.2	1094.8
82.5°	1727.6	1114.9	821.6	709.1	659.0	630.8	584.5	510.2
85°	550.4	482.2	448.0	427.9	407.7	355.5	245.1	223.0
87.5°	212.9	218.9	217.0	204.9	208.9	150.7	120.5	106.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)