

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: P192538

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192538
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-10-LED-E1-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 39440.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 323
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

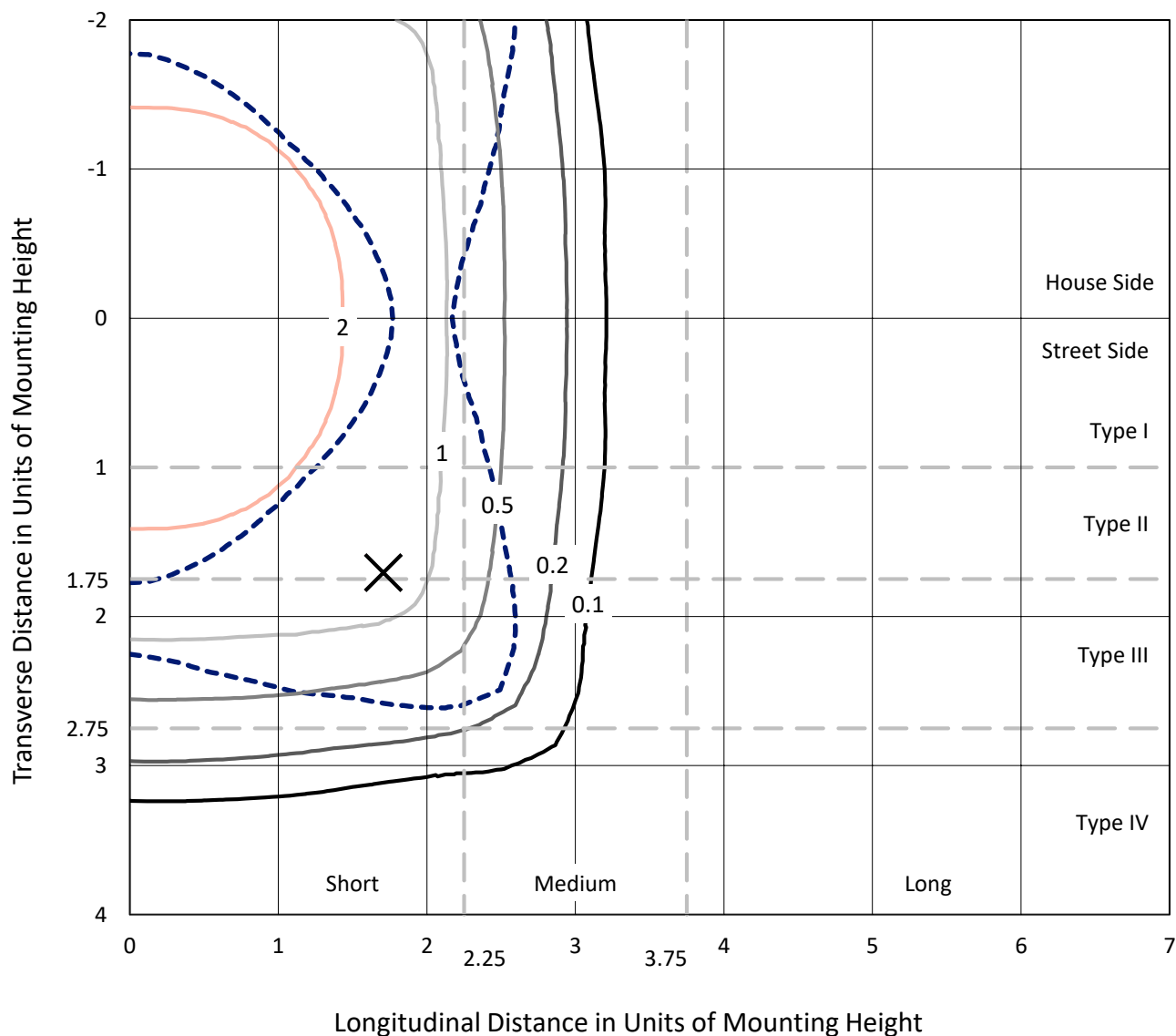


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

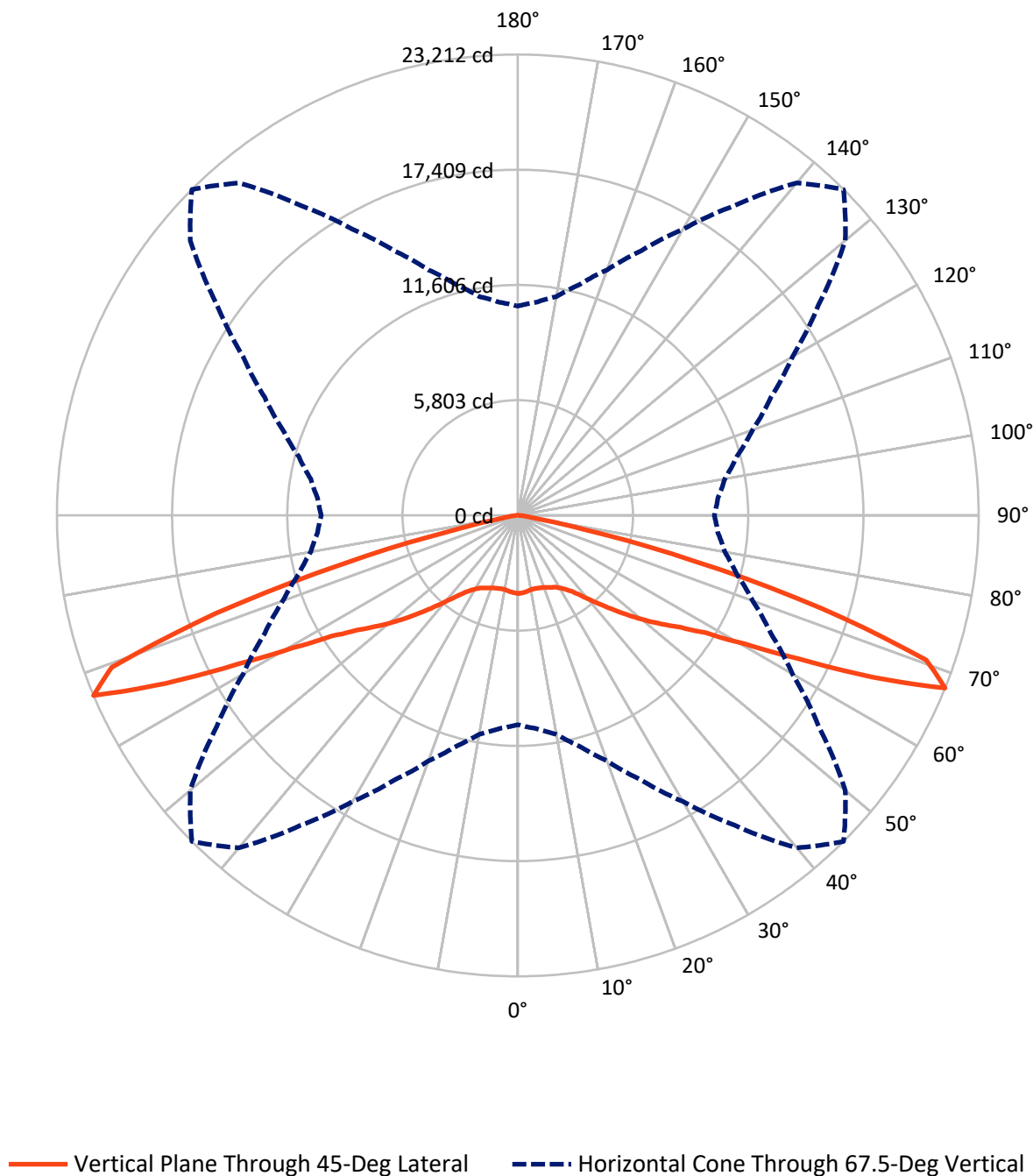


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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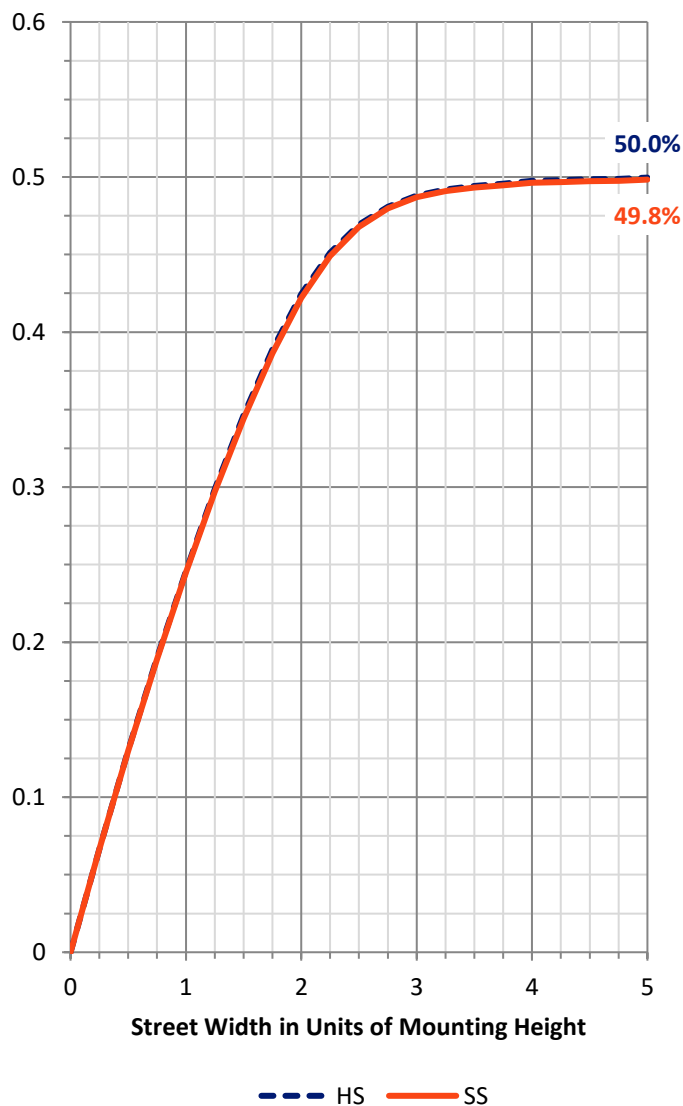
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19720.2	0.0	19720.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19720.2	0.0	19720.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	39440.4	0.0	39440.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.9	0.9
10°-20°	1067.5	2.7
20°-30°	1814.7	4.6
30°-40°	2966.5	7.5
40°-50°	5295.7	13.4
50°-60°	8928.7	22.6
60°-70°	13856.0	35.1
70°-80°	4868.4	12.3
80°-90°	275.1	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°	39440.4	100.0
0°-180°	39440.4	100.0

Coefficient of Utilization



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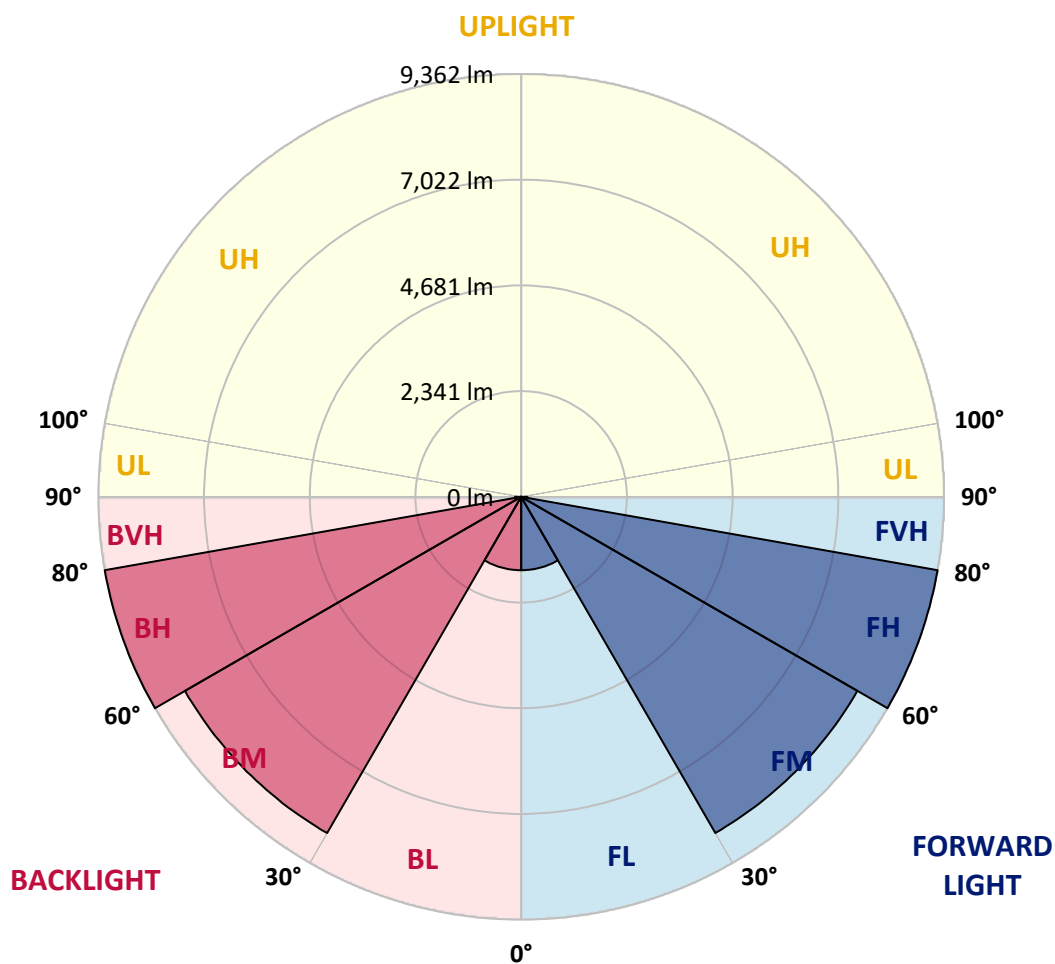
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.0	4.1			
FM	(30°-60°)	8595.4	21.8			
FH	(60°-80°)	9362.2	23.7			G4/12000
FVH	(80°-90°)	137.6	0.3			G2/225
BL	(0°-30°)	1625.0	4.1	B3/2500		
BM	(30°-60°)	8595.4	21.8	B5		
BH	(60°-80°)	9362.2	23.7	B5		G4/12000
BVH	(80°-90°)	137.6	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°	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4
2.5°	3915.9	3919.5	3919.5	3919.5	3917.7	3917.7	3914.1	3917.7	3915.9	3910.5	3912.2
5°	3883.3	3886.9	3886.9	3885.0	3890.5	3888.6	3883.3	3886.9	3885.0	3881.4	3883.3
7.5°	3836.1	3841.5	3841.5	3839.7	3845.2	3843.3	3839.7	3841.5	3841.5	3836.1	3836.1
10°	3783.5	3787.2	3787.2	3785.3	3794.3	3794.3	3792.6	3798.0	3799.8	3794.3	3790.7
12.5°	3734.5	3740.0	3740.0	3747.3	3756.4	3759.9	3769.0	3776.2	3783.5	3781.7	3774.5
15°	3705.5	3709.2	3716.4	3725.4	3740.0	3752.6	3767.2	3783.5	3798.0	3801.6	3790.7
17.5°	3687.4	3692.9	3703.7	3716.4	3736.3	3758.1	3779.9	3801.6	3821.6	3828.9	3816.1
20°	3681.9	3685.6	3696.5	3718.2	3745.4	3778.0	3808.9	3834.2	3861.4	3870.5	3861.4
22.5°	3692.9	3700.1	3712.7	3738.2	3774.5	3816.1	3852.4	3886.9	3921.4	3937.7	3924.9
25°	3741.8	3749.0	3765.4	3798.0	3838.0	3881.4	3923.2	3963.1	3993.9	4010.3	4001.2
27.5°	3832.5	3841.5	3861.4	3894.1	3937.7	3984.8	4030.1	4062.8	4088.2	4093.6	4082.8
30°	3968.6	3988.4	4012.0	4048.3	4099.1	4139.0	4184.3	4213.4	4244.1	4244.1	4235.1
32.5°	4180.7	4200.7	4226.0	4260.4	4300.5	4343.9	4383.8	4409.2	4441.9	4443.7	4421.9
35°	4498.1	4507.2	4528.9	4550.7	4587.0	4625.1	4659.6	4675.9	4703.1	4704.9	4684.9
37.5°	4917.1	4918.9	4933.4	4940.7	4973.3	5015.0	5047.7	5058.6	5084.0	5080.3	5060.4
40°	5404.9	5414.1	5419.5	5430.4	5464.8	5504.7	5539.2	5544.7	5571.9	5566.4	5541.0
42.5°	5969.1	5972.6	6003.5	6019.8	6052.5	6072.4	6116.0	6121.5	6154.0	6139.6	6110.6
45°	6602.1	6634.7	6663.7	6696.4	6730.8	6754.4	6788.9	6781.6	6803.3	6781.6	6765.4
47.5°	7267.7	7291.3	7356.5	7407.3	7463.6	7483.5	7532.6	7510.7	7532.6	7501.6	7496.3
50°	8000.5	8042.1	8098.4	8156.4	8216.3	8249.0	8312.5	8285.2	8314.2	8285.2	8268.8
52.5°	8722.3	8733.2	8856.5	8941.8	9025.3	9063.3	9101.4	9088.7	9090.5	9088.7	9072.4
55°	9408.0	9433.3	9556.7	9672.7	9817.8	9924.9	9990.1	9982.9	9966.5	9950.2	9923.0
57.5°	10180.6	10206.0	10347.5	10490.7	10655.8	10808.2	10940.5	11076.6	11129.1	11143.7	11083.8
60°	11225.3	11223.5	11412.1	11586.3	11822.1	12048.8	12338.9	12634.6	12973.8	13131.6	12922.9
62.5°	12288.2	12331.6	12603.8	12912.1	13398.3	13871.5	14406.6	14932.7	15469.5	15906.6	15442.2
65°	12161.2	12328.0	12732.5	13430.8	14328.7	15395.1	16548.7	17769.4	18872.2	19630.3	18779.6
67.5°	10539.7	10777.4	11189.0	12037.8	13160.6	14698.6	16635.7	19049.9	21855.6	23212.4	21531.0
70°	7639.5	7907.9	8339.6	9168.5	10280.3	11742.2	13846.2	16744.5	20459.2	21826.7	19974.9
72.5°	3801.6	3946.8	4213.4	4741.2	5582.7	6768.9	8677.1	11462.9	14749.5	16004.6	14312.3
75°	1291.5	1358.5	1403.9	1576.2	1842.7	2308.8	3257.4	5011.4	7645.0	9164.8	7536.1
77.5°	745.4	747.3	778.2	808.9	854.3	905.1	1032.1	1355.0	2343.4	3328.2	2425.0
80°	482.5	480.6	506.1	529.6	560.5	585.8	593.1	627.5	723.8	857.9	767.2
82.5°	250.3	281.2	337.4	368.2	426.2	437.1	422.7	409.9	433.5	449.8	460.7
85°	137.8	119.7	179.5	232.1	257.6	261.1	261.1	246.7	255.7	250.3	272.0
87.5°	63.5	58.0	70.7	114.2	121.5	103.4	108.8	96.1	69.0	67.0	76.2
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°	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4	3930.4
2.5°	3912.2	3914.1	3914.1	3919.5	3921.4	3924.9	3928.6	3930.4
5°	3881.4	3886.9	3883.3	3888.6	3888.6	3892.4	3892.4	3894.1
7.5°	3836.1	3841.5	3841.5	3841.5	3839.7	3845.2	3845.2	3845.2
10°	3788.9	3792.6	3790.7	3787.2	3783.5	3788.9	3787.2	3785.3
12.5°	3774.5	3765.4	3758.1	3754.4	3747.3	3749.0	3743.6	3743.6
15°	3783.5	3767.2	3754.4	3749.0	3741.8	3738.2	3734.5	3736.3
17.5°	3807.0	3787.2	3770.7	3761.7	3752.6	3747.3	3740.0	3741.8
20°	3848.7	3825.1	3801.6	3783.5	3767.2	3758.1	3752.6	3750.9
22.5°	3910.5	3876.0	3841.5	3814.3	3792.6	3779.9	3774.5	3770.7
25°	3981.2	3943.0	3903.2	3872.3	3850.7	3834.2	3823.4	3823.4
27.5°	4070.0	4039.2	4002.9	3966.6	3946.8	3930.4	3923.2	3919.5
30°	4218.8	4189.8	4160.7	4126.2	4100.9	4084.5	4071.9	4060.9
32.5°	4409.2	4385.6	4362.0	4336.7	4313.1	4291.3	4271.4	4262.3
35°	4677.7	4659.6	4643.2	4614.2	4605.2	4592.3	4581.6	4572.5
37.5°	5047.7	5040.4	5040.4	5009.5	5002.3	4996.9	4986.0	4987.8
40°	5533.8	5541.0	5531.9	5521.1	5515.6	5501.1	5501.1	5513.8
42.5°	6108.6	6114.1	6134.2	6116.0	6135.9	6117.8	6106.9	6116.0
45°	6776.2	6796.2	6836.1	6817.9	6830.6	6799.7	6761.6	6763.4
47.5°	7525.2	7543.4	7559.7	7547.0	7548.8	7498.0	7447.2	7434.5
50°	8303.3	8310.6	8319.6	8301.5	8305.2	8249.0	8190.9	8192.7
52.5°	9072.4	9106.9	9143.2	9094.2	9083.3	9019.8	8938.2	8905.5
55°	9952.1	10001.0	9959.3	9874.1	9788.9	9703.6	9596.6	9578.4
57.5°	11036.8	10953.2	10822.6	10661.2	10543.3	10423.7	10314.8	10269.5
60°	12545.7	12231.9	11996.1	11756.8	11606.2	11459.3	11316.0	11294.2
62.5°	14678.7	14136.4	13666.5	13171.4	12767.1	12451.4	12199.4	12128.6
65°	17352.2	16069.9	14958.0	13920.5	13019.2	12338.9	11910.9	11722.3
67.5°	18502.1	15970.1	14063.9	12591.0	11412.1	10588.7	10126.1	9895.8
70°	16258.5	13244.1	11170.8	9696.3	8622.6	7744.8	7325.8	7079.1
72.5°	11185.4	8424.9	6661.9	5437.7	4579.7	3845.2	3555.0	3533.2
75°	5022.3	3326.4	2292.6	1766.6	1487.2	1293.2	1233.3	1187.9
77.5°	1405.6	1039.3	926.8	867.0	808.9	741.9	716.4	721.8
80°	683.8	645.7	620.3	582.3	529.6	473.4	448.0	458.9
82.5°	453.4	448.0	464.4	437.1	360.9	306.5	257.6	235.8
85°	275.7	279.2	284.7	286.6	243.0	170.5	116.1	130.6
87.5°	108.8	125.1	136.0	141.5	132.4	81.6	65.3	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)