

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: P192554

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192554
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-06-LED-E1-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36171.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 333
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

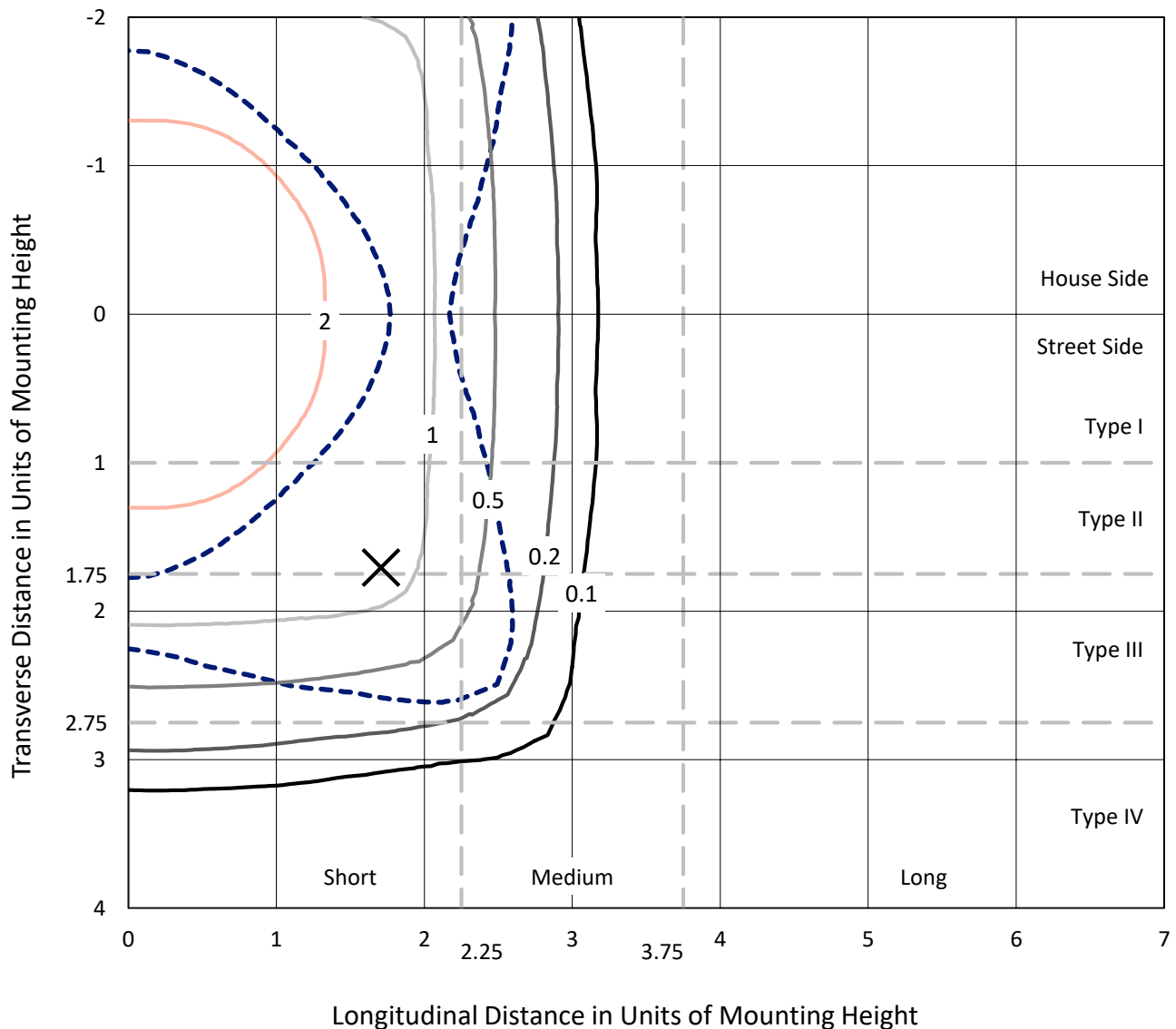


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

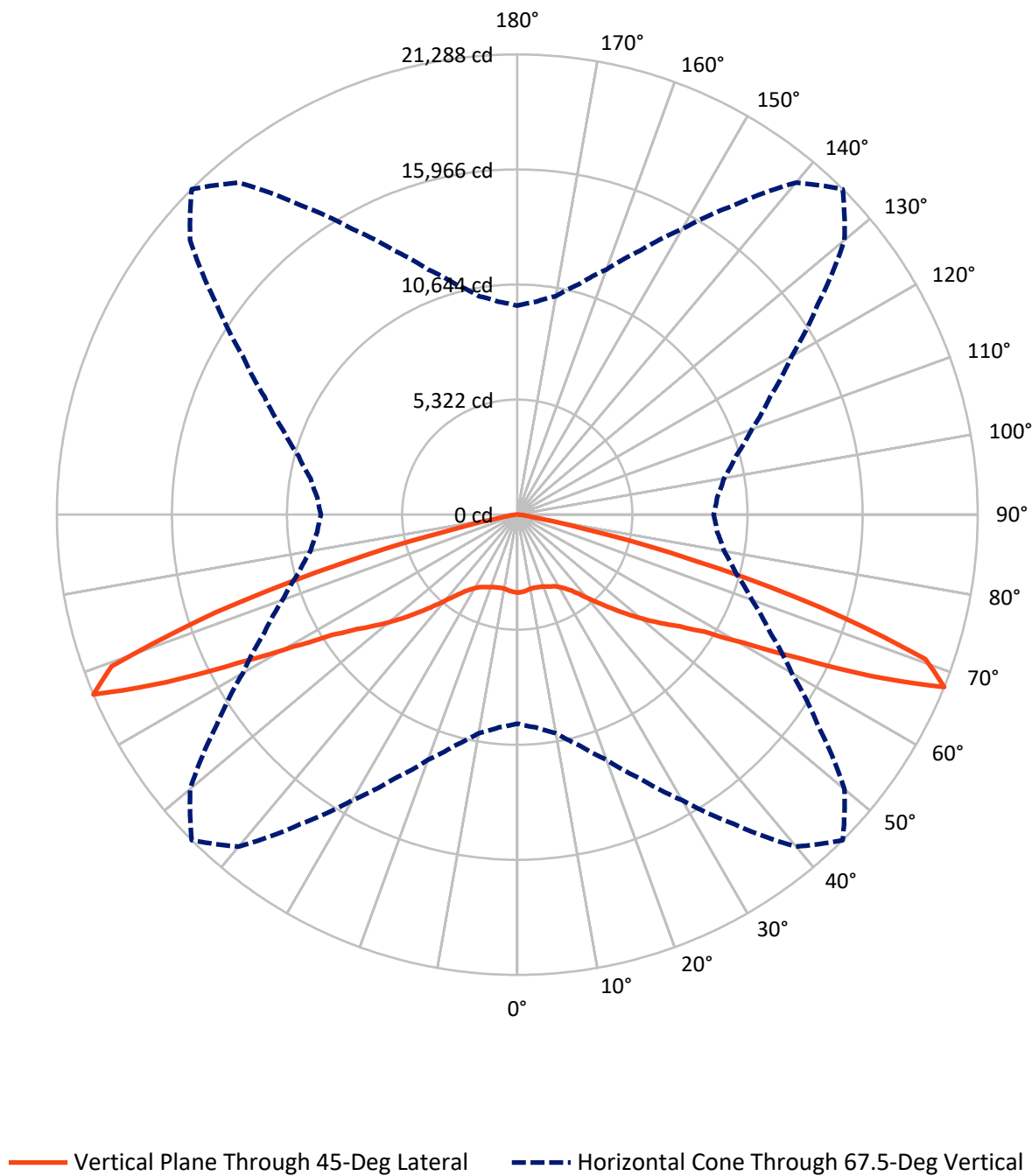


Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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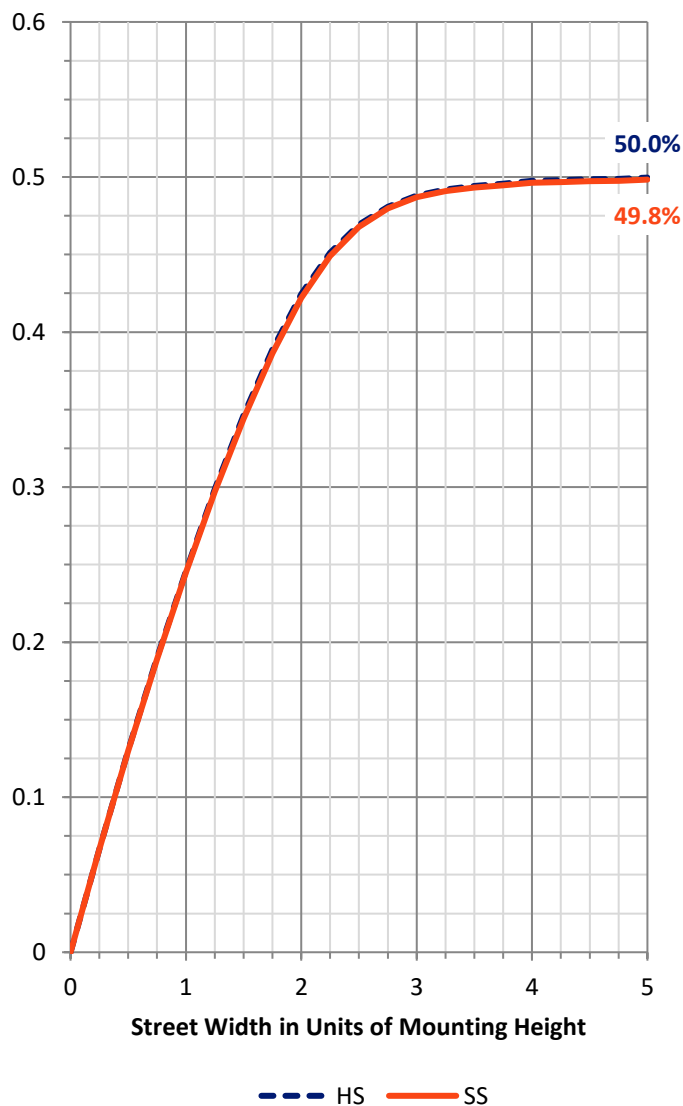
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18085.7	0.0	18085.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18085.7	0.0	18085.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	36171.4	0.0	36171.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	0.9
10°-20°	979.0	2.7
20°-30°	1664.3	4.6
30°-40°	2720.6	7.5
40°-50°	4856.8	13.4
50°-60°	8188.6	22.6
60°-70°	12707.5	35.1
70°-80°	4464.9	12.3
80°-90°	252.3	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°	36171.4	100.0
0°-180°	36171.4	100.0

Coefficient of Utilization



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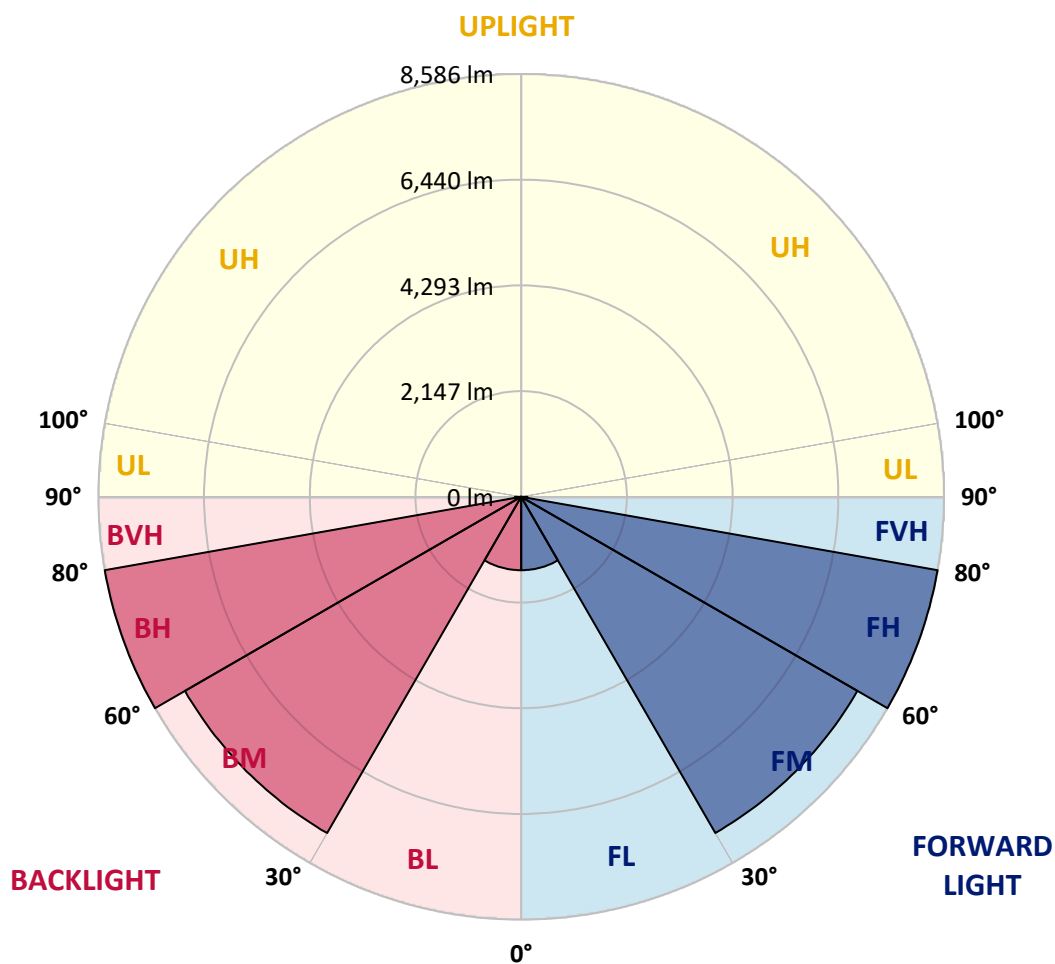
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1490.3	4.1			
FM	(30°-60°)	7883.0	21.8			
FH	(60°-80°)	8586.2	23.7			G4/12000
FVH	(80°-90°)	126.2	0.3			G2/225
BL	(0°-30°)	1490.3	4.1	B3/2500		
BM	(30°-60°)	7883.0	21.8	B4/8500		
BH	(60°-80°)	8586.2	23.7	B5		G4/12000
BVH	(80°-90°)	126.2	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°	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7
2.5°	3591.4	3594.6	3594.6	3594.6	3593.0	3593.0	3589.7	3593.0	3591.4	3586.3	3588.0
5°	3561.5	3564.7	3564.7	3563.1	3568.1	3566.3	3561.5	3564.7	3563.1	3559.6	3561.5
7.5°	3518.1	3523.2	3523.2	3521.4	3526.5	3524.8	3521.4	3523.2	3523.2	3518.1	3518.1
10°	3469.8	3473.3	3473.3	3471.6	3479.9	3479.9	3478.2	3483.1	3484.9	3479.9	3476.5
12.5°	3425.0	3429.9	3429.9	3436.6	3445.0	3448.2	3456.6	3463.2	3469.8	3468.2	3461.6
15°	3398.4	3401.7	3408.4	3416.6	3429.9	3441.6	3454.9	3469.8	3483.1	3486.6	3476.5
17.5°	3381.7	3386.7	3396.7	3408.4	3426.7	3446.6	3466.6	3486.6	3504.8	3511.5	3499.8
20°	3376.7	3380.1	3390.1	3410.0	3435.0	3464.9	3493.1	3516.5	3541.4	3549.8	3541.4
22.5°	3386.7	3393.4	3405.1	3428.3	3461.6	3499.8	3533.1	3564.7	3596.3	3611.2	3599.6
25°	3431.7	3438.3	3453.2	3483.1	3519.8	3559.6	3598.0	3634.6	3662.8	3677.7	3669.5
27.5°	3514.8	3523.2	3541.4	3571.3	3611.2	3654.5	3696.1	3726.1	3749.3	3754.3	3744.4
30°	3639.5	3657.9	3679.6	3712.7	3759.3	3795.8	3837.5	3864.2	3892.4	3892.4	3884.0
32.5°	3834.2	3852.5	3875.8	3907.3	3943.9	3983.9	4020.5	4043.8	4073.7	4075.4	4055.3
35°	4125.3	4133.6	4153.6	4173.4	4206.8	4241.8	4273.3	4288.3	4313.2	4314.8	4296.6
37.5°	4509.5	4511.2	4524.5	4531.2	4561.1	4599.4	4629.4	4639.2	4662.5	4659.3	4640.9
40°	4957.0	4965.3	4970.3	4980.2	5011.8	5048.5	5080.1	5085.0	5110.0	5105.0	5081.7
42.5°	5474.3	5477.6	5505.9	5520.9	5550.8	5569.2	5609.1	5614.1	5644.0	5630.6	5604.0
45°	6054.8	6084.7	6111.4	6141.4	6172.9	6194.6	6226.1	6219.5	6239.5	6219.5	6204.5
47.5°	6665.4	6687.0	6746.9	6793.4	6845.0	6863.2	6908.1	6888.2	6908.1	6879.9	6874.9
50°	7337.3	7375.6	7427.1	7480.4	7535.3	7565.2	7623.4	7598.6	7625.1	7598.6	7583.5
52.5°	7999.4	8009.4	8122.5	8200.7	8277.2	8312.1	8347.1	8335.4	8337.0	8335.4	8320.4
55°	8628.2	8651.4	8764.6	8871.0	9004.0	9102.3	9162.2	9155.5	9140.5	9125.6	9100.5
57.5°	9336.8	9360.0	9489.8	9621.3	9772.5	9912.3	10033.8	10158.5	10206.8	10220.0	10165.2
60°	10295.0	10293.2	10466.3	10625.9	10842.2	11050.1	11316.2	11587.4	11898.5	12043.1	11851.9
62.5°	11269.6	11309.5	11559.1	11841.8	12287.7	12721.8	13212.5	13694.9	14187.4	14588.2	14162.4
65°	11153.1	11306.2	11677.2	12317.7	13141.0	14119.1	15176.9	16296.6	17307.9	18003.2	17223.1
67.5°	9666.1	9884.0	10261.6	11040.1	12069.8	13480.3	15256.9	17470.9	20044.1	21288.4	19746.4
70°	7006.4	7252.5	7648.3	8408.6	9428.3	10769.0	12698.5	15356.7	18763.4	20017.6	18319.3
72.5°	3486.6	3619.6	3864.2	4348.2	5120.0	6207.9	7957.8	10512.8	13527.0	14678.0	13126.1
75°	1184.4	1245.9	1287.5	1445.5	1690.0	2117.6	2987.4	4596.0	7011.2	8405.2	6911.5
77.5°	683.6	685.4	713.6	741.9	783.5	830.1	946.5	1242.6	2149.1	3052.3	2224.0
80°	442.5	440.8	464.2	485.7	513.9	537.3	543.9	575.6	663.8	786.7	703.6
82.5°	229.6	257.9	309.4	337.7	390.9	400.9	387.6	376.0	397.6	412.6	422.5
85°	126.4	109.8	164.7	212.9	236.2	239.5	239.5	226.2	234.6	229.6	249.5
87.5°	58.2	53.2	64.9	104.8	111.5	94.8	99.8	88.2	63.3	61.5	69.8
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°	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7	3604.7
2.5°	3588.0	3589.7	3589.7	3594.6	3596.3	3599.6	3603.0	3604.7
5°	3559.6	3564.7	3561.5	3566.3	3566.3	3569.7	3569.7	3571.3
7.5°	3518.1	3523.2	3523.2	3523.2	3521.4	3526.5	3526.5	3526.5
10°	3474.9	3478.2	3476.5	3473.3	3469.8	3474.9	3473.3	3471.6
12.5°	3461.6	3453.2	3446.6	3443.3	3436.6	3438.3	3433.3	3433.3
15°	3469.8	3454.9	3443.3	3438.3	3431.7	3428.3	3425.0	3426.7
17.5°	3491.5	3473.3	3458.3	3450.0	3441.6	3436.6	3429.9	3431.7
20°	3529.7	3508.2	3486.6	3469.8	3454.9	3446.6	3441.6	3439.9
22.5°	3586.3	3554.7	3523.2	3498.2	3478.2	3466.6	3461.6	3458.3
25°	3651.2	3616.3	3579.7	3551.4	3531.5	3516.5	3506.4	3506.4
27.5°	3732.8	3704.4	3671.2	3637.9	3619.6	3604.7	3598.0	3594.6
30°	3869.1	3842.5	3815.9	3784.3	3761.0	3746.1	3734.4	3724.4
32.5°	4043.8	4022.2	4000.5	3977.2	3955.6	3935.6	3917.4	3909.1
35°	4289.9	4273.3	4258.4	4231.7	4223.4	4211.7	4201.8	4193.5
37.5°	4629.4	4622.6	4622.6	4594.4	4587.7	4582.8	4572.7	4574.3
40°	5075.1	5081.7	5073.5	5063.4	5058.4	5045.1	5045.1	5056.8
42.5°	5602.4	5607.4	5625.6	5609.1	5627.4	5610.7	5600.7	5609.1
45°	6214.5	6232.8	6269.4	6252.8	6264.5	6236.2	6201.2	6202.8
47.5°	6901.6	6918.2	6933.1	6921.5	6923.1	6876.6	6830.1	6818.4
50°	7615.2	7621.8	7630.1	7613.5	7616.8	7565.2	7512.0	7513.6
52.5°	8320.4	8352.0	8385.3	8340.5	8330.4	8272.2	8197.2	8167.3
55°	9127.2	9172.1	9133.8	9055.6	8977.5	8899.2	8801.2	8784.6
57.5°	10121.9	10045.4	9925.6	9777.6	9669.5	9559.6	9459.8	9418.2
60°	11505.9	11218.0	11001.9	10782.2	10644.2	10509.4	10378.1	10358.1
62.5°	13462.1	12964.7	12533.9	12079.7	11708.8	11419.3	11188.1	11123.2
65°	15913.9	14737.9	13718.3	12766.7	11940.1	11316.2	10923.6	10750.7
67.5°	16968.5	14646.4	12898.2	11547.5	10466.3	9711.1	9286.8	9075.6
70°	14910.9	12146.3	10245.0	8892.6	7907.8	7102.8	6718.6	6492.3
72.5°	10258.4	7726.6	6109.8	4986.9	4200.2	3526.5	3260.3	3240.3
75°	4606.1	3050.7	2102.5	1620.2	1364.0	1186.0	1131.2	1089.6
77.5°	1289.1	953.2	850.0	795.1	741.9	680.3	657.0	662.0
80°	627.1	592.1	568.9	533.9	485.7	434.2	410.9	420.8
82.5°	415.8	410.9	425.8	400.9	331.0	281.2	236.2	216.3
85°	252.8	256.2	261.1	262.8	222.9	156.3	106.4	119.7
87.5°	99.8	114.7	124.8	129.8	121.4	74.9	59.9	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)