

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: P192737

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34662.5 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 290
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



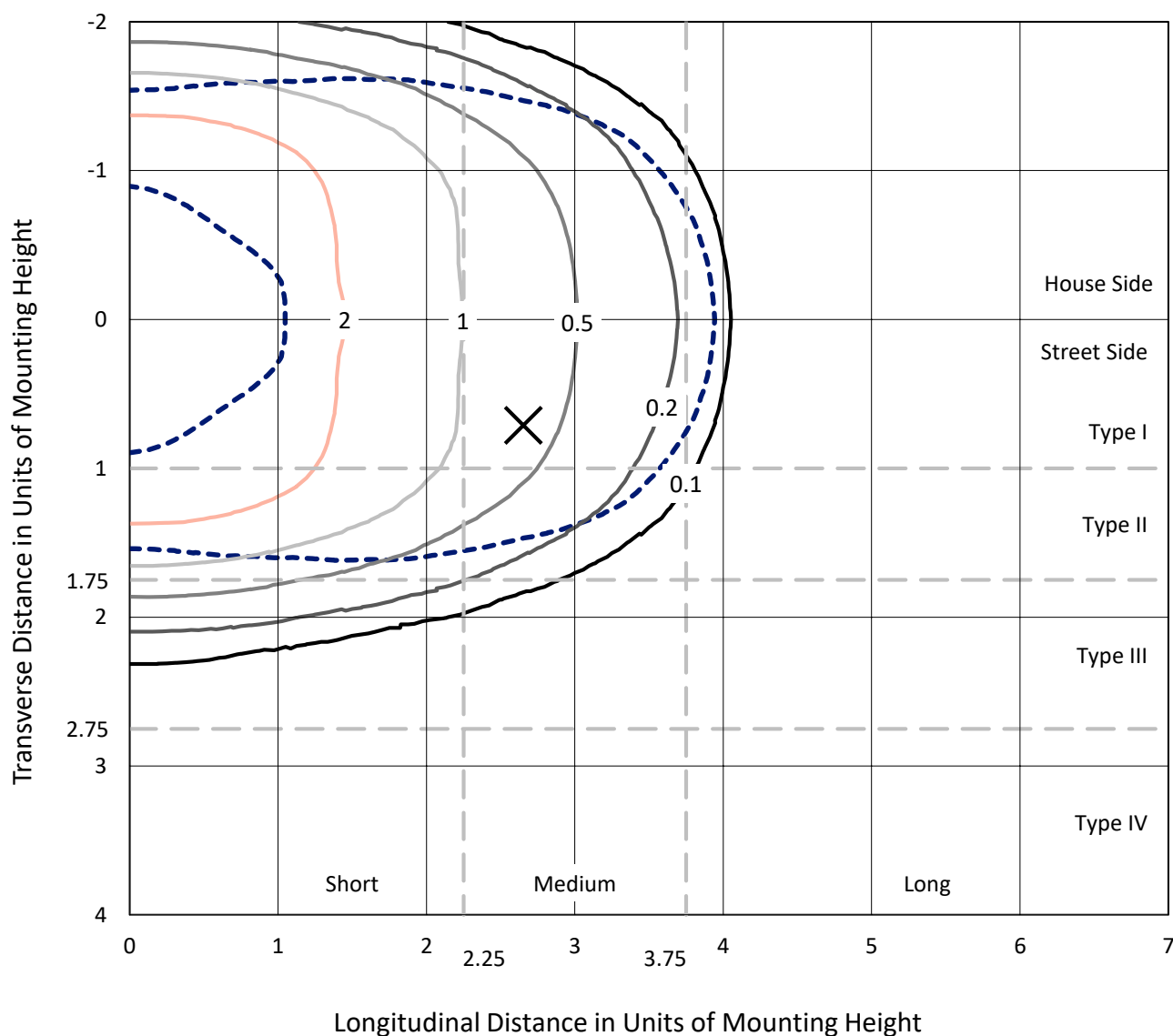
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

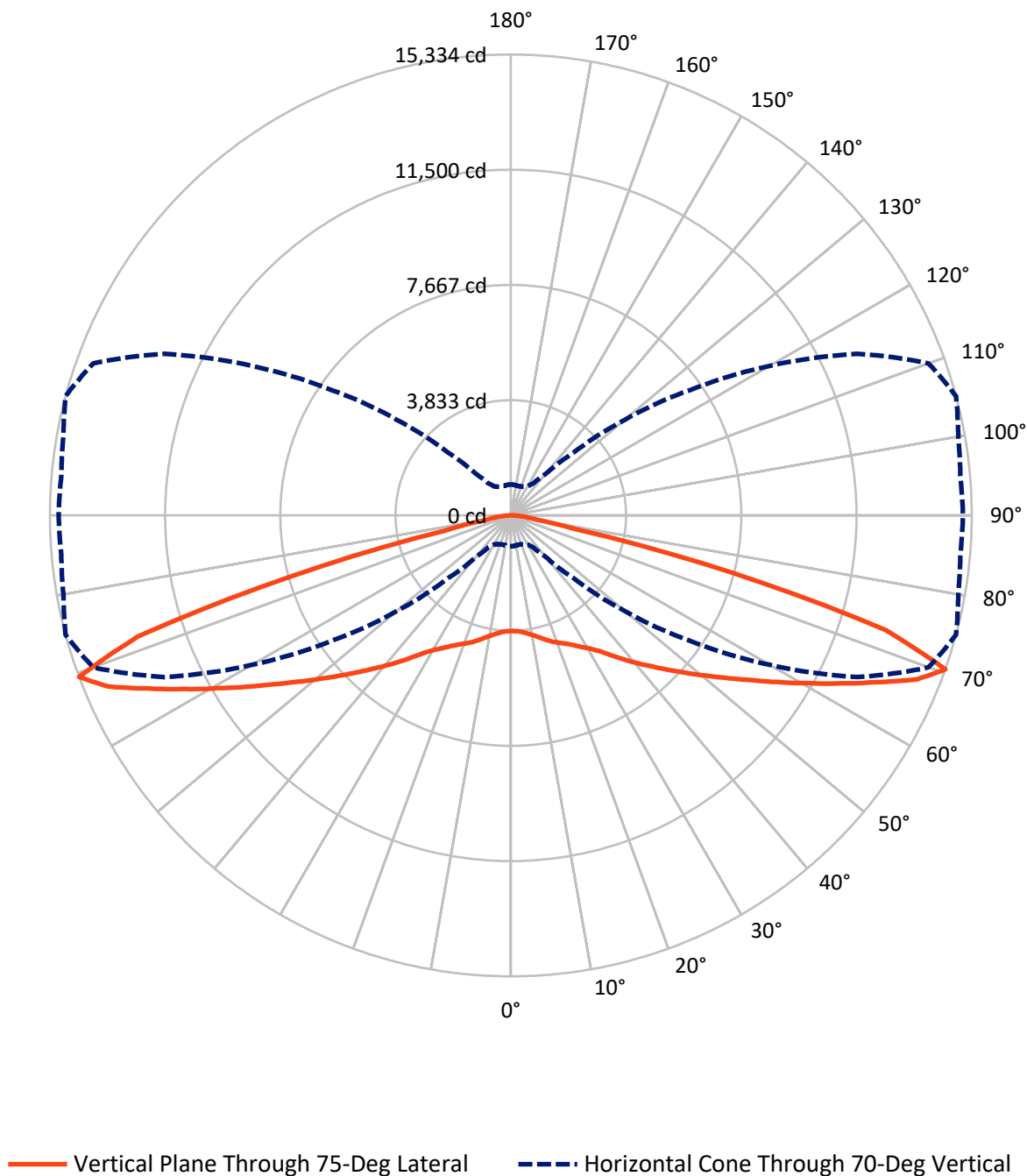


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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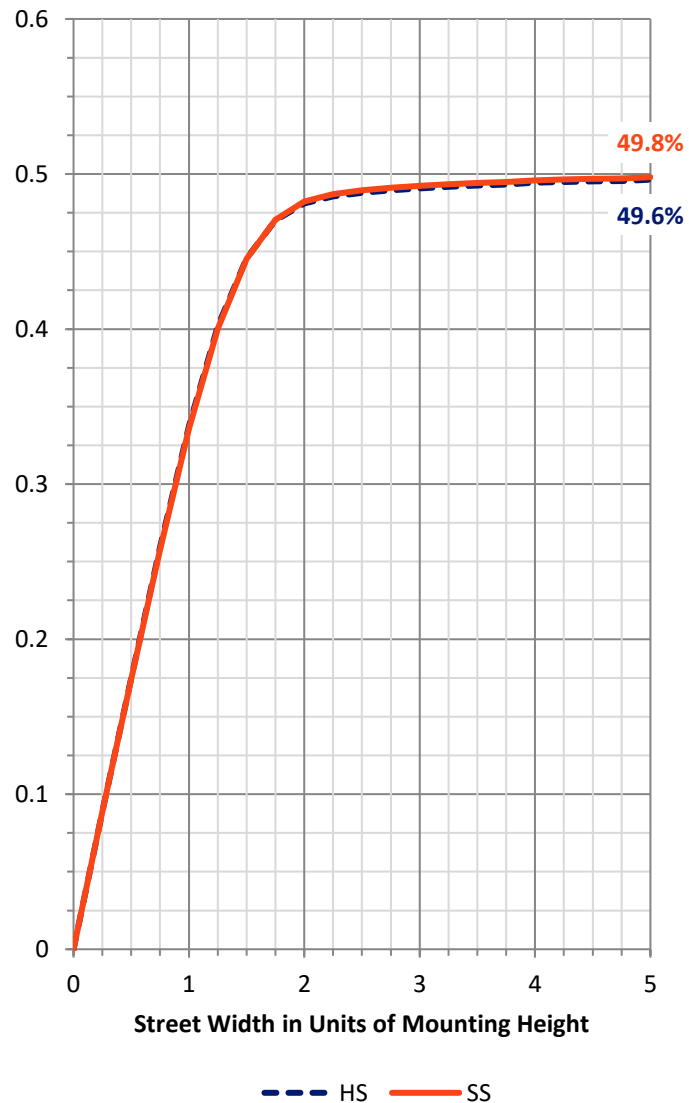
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17331.2	0.0	17331.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17331.2	0.0	17331.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	34662.5	0.0	34662.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	1.1
10°-20°	1145.8	3.3
20°-30°	2156.5	6.2
30°-40°	3818.8	11.0
40°-50°	6386.2	18.4
50°-60°	8899.2	25.7
60°-70°	8252.6	23.8
70°-80°	3288.9	9.5
80°-90°	345.7	1.0
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°	34662.5	100.0
0°-180°	34662.5	100.0

Coefficient of Utilization



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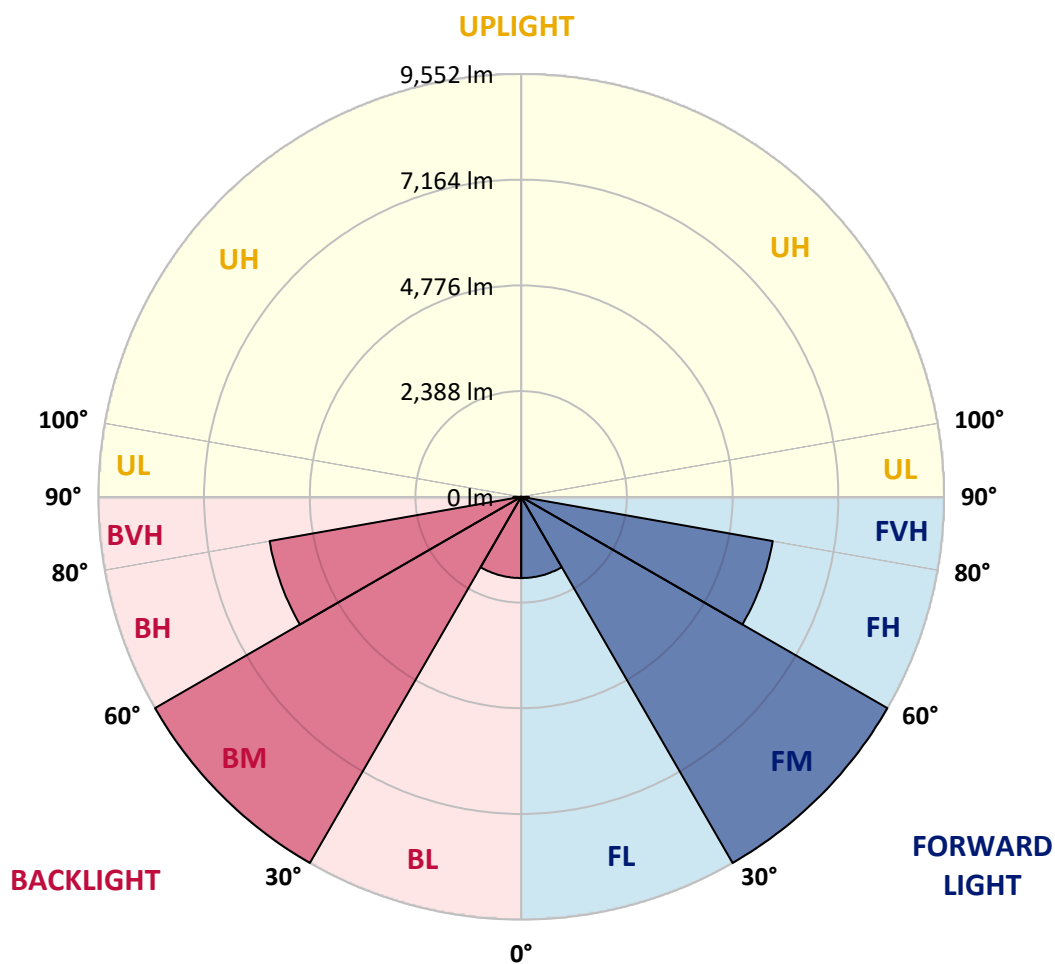
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.5	5.3			
FM	(30°-60°)	9552.1	27.6			
FH	(60°-80°)	5770.7	16.6			G3/7500
FVH	(80°-90°)	172.9	0.5			G2/225
BL	(0°-30°)	1835.5	5.3	B3/2500		
BM	(30°-60°)	9552.1	27.6	B5		
BH	(60°-80°)	5770.7	16.6	B5		G5
BVH	(80°-90°)	172.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9
2.5°	3838.3	3835.0	3838.3	3836.6	3839.9	3839.9	3843.2	3849.7	3849.7	3854.6	3853.0
5°	3800.7	3799.1	3804.0	3808.9	3813.8	3823.5	3833.4	3848.1	3859.6	3867.8	3876.0
7.5°	3727.0	3727.0	3733.5	3745.0	3756.5	3777.7	3800.7	3830.1	3859.6	3884.1	3905.5
10°	3666.3	3669.6	3677.7	3697.5	3717.1	3749.9	3781.0	3823.5	3864.5	3905.5	3938.2
12.5°	3630.2	3635.2	3650.0	3679.5	3712.2	3756.5	3804.0	3858.0	3903.9	3953.0	3985.8
15°	3641.7	3645.0	3666.3	3702.4	3745.0	3800.7	3864.5	3928.4	3982.5	4035.0	4079.2
17.5°	3705.6	3710.6	3735.1	3776.1	3820.4	3885.8	3954.6	4026.7	4093.8	4152.8	4206.9
20°	3820.4	3825.1	3856.3	3900.5	3953.0	4020.2	4088.9	4164.3	4239.7	4302.0	4362.5
22.5°	3982.5	3990.7	4020.2	4064.5	4123.3	4195.4	4277.4	4357.6	4429.7	4487.1	4541.2
25°	4195.4	4213.5	4241.3	4290.5	4352.7	4418.2	4506.7	4588.7	4657.4	4711.5	4750.8
27.5°	4496.9	4521.4	4542.8	4590.3	4650.8	4713.1	4801.6	4873.7	4939.2	4991.6	5021.1
30°	4896.6	4921.1	4942.5	4988.3	5044.1	5103.1	5186.5	5250.5	5291.4	5332.4	5330.8
32.5°	5381.6	5407.7	5415.9	5465.0	5522.4	5586.3	5661.7	5697.7	5730.4	5735.3	5705.8
35°	5923.8	5936.8	5969.6	6035.2	6100.7	6153.2	6225.1	6243.2	6243.2	6218.6	6153.2
37.5°	6518.4	6526.6	6572.5	6646.2	6713.4	6767.4	6816.5	6852.6	6834.6	6782.2	6672.5
40°	7170.4	7185.2	7250.8	7316.2	7391.6	7442.4	7494.8	7501.4	7483.3	7406.3	7257.2
42.5°	7792.9	7806.0	7871.6	7974.9	8073.0	8143.5	8192.7	8202.5	8145.2	8074.7	7889.6
45°	8328.7	8363.0	8448.3	8569.4	8712.0	8812.0	8879.1	8907.0	8856.1	8764.4	8549.9
47.5°	8753.0	8787.4	8908.6	9052.7	9229.6	9391.8	9503.3	9562.3	9549.1	9480.3	9246.1
50°	9064.2	9096.9	9228.0	9404.9	9611.4	9812.9	10002.9	10143.8	10192.9	10161.7	9947.2
52.5°	9100.2	9154.3	9308.4	9545.9	9814.5	10089.8	10360.1	10599.2	10761.4	10786.0	10627.1
55°	8597.3	8651.3	8864.3	9216.6	9616.4	10065.2	10497.6	10900.7	11220.1	11383.9	11300.3
57.5°	7411.3	7508.0	7732.4	8145.2	8733.3	9404.9	10094.7	10810.5	11461.0	11895.0	11978.6
60°	5679.7	5794.3	6020.4	6459.5	7114.8	7915.9	8836.5	9894.7	11043.2	12019.5	12602.7
62.5°	3643.4	3751.5	3989.0	4370.7	4904.7	5773.0	6760.9	8017.5	9560.6	11102.2	12491.4
65°	1872.4	1931.4	2055.9	2286.9	2703.1	3351.7	4238.0	5491.3	7255.6	9157.6	11166.1
67.5°	1186.1	1197.5	1225.4	1258.1	1364.6	1589.0	2001.8	2783.3	4234.8	6218.6	8569.4
70°	1025.5	1025.5	1012.4	1007.5	1020.6	1051.7	1115.6	1297.5	1787.3	2952.0	4942.5
72.5°	938.6	928.8	906.0	888.0	884.7	884.7	897.8	925.5	1004.2	1202.4	1934.8
75°	865.0	837.2	806.0	784.7	776.5	768.3	766.7	771.6	788.0	819.1	923.9
77.5°	774.8	738.8	702.7	681.4	671.6	660.2	650.4	638.9	630.8	640.6	686.3
80°	666.7	625.8	597.9	584.9	575.0	558.7	537.3	517.7	499.7	496.4	524.2
82.5°	537.3	489.8	491.4	496.4	478.3	455.4	432.4	411.2	380.1	363.8	380.1
85°	434.1	409.5	398.0	429.2	402.9	368.6	332.5	294.9	245.8	206.4	224.4
87.5°	168.7	168.7	252.3	388.3	349.0	285.0	244.0	208.0	129.5	100.0	101.6
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°	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9
2.5°	3851.4	3854.6	3853.0	3851.4	3851.4	3849.7	3851.4	3851.4
5°	3880.9	3889.1	3889.1	3892.4	3892.4	3894.0	3895.6	3894.0
7.5°	3925.1	3939.9	3949.7	3961.2	3962.9	3964.5	3967.7	3964.5
10°	3969.4	3998.9	4020.2	4041.5	4051.4	4054.6	4057.9	4057.9
12.5°	4025.1	4066.1	4103.7	4141.4	4159.4	4169.3	4169.3	4175.8
15°	4116.8	4157.8	4202.0	4252.8	4283.9	4300.3	4305.3	4305.3
17.5°	4246.3	4282.3	4320.0	4369.1	4408.4	4429.7	4434.7	4432.9
20°	4396.9	4431.3	4452.7	4483.8	4518.2	4542.8	4549.3	4549.3
22.5°	4569.0	4588.7	4591.9	4601.8	4629.6	4662.3	4677.1	4680.3
25°	4759.0	4763.9	4750.8	4750.8	4768.8	4800.0	4814.7	4816.3
27.5°	5004.7	4980.1	4947.4	4935.9	4947.4	4983.5	5001.5	5008.0
30°	5311.1	5252.1	5176.7	5135.8	5129.2	5176.7	5209.5	5214.4
32.5°	5661.7	5576.5	5476.5	5393.0	5371.7	5401.2	5440.4	5438.8
35°	6077.8	5976.2	5854.9	5748.4	5699.3	5728.8	5784.5	5791.1
37.5°	6557.7	6425.1	6285.8	6151.6	6074.5	6082.7	6141.7	6161.3
40°	7093.4	6921.5	6746.1	6565.9	6456.2	6435.0	6506.9	6518.4
42.5°	7666.8	7445.7	7224.6	7001.7	6860.8	6828.0	6911.6	6906.8
45°	8277.9	7996.1	7737.3	7491.6	7324.4	7275.2	7344.1	7344.1
47.5°	8934.7	8587.4	8279.5	8001.0	7819.1	7748.7	7814.2	7819.1
50°	9630.9	9262.5	8900.4	8590.7	8372.9	8282.8	8367.9	8381.1
52.5°	10324.0	9965.2	9599.9	9246.1	8982.3	8872.5	8970.8	9013.5
55°	11026.8	10674.6	10325.6	9980.0	9667.0	9537.7	9642.4	9696.5
57.5°	11768.9	11442.9	11110.3	10761.4	10459.9	10258.5	10369.9	10441.9
60°	12638.8	12360.3	12014.5	11629.7	11324.9	11120.2	11184.1	11247.9
62.5°	13326.8	13434.9	13141.7	12696.2	12304.6	12042.4	12104.8	12171.9
65°	12994.3	14103.4	14363.9	13913.3	13371.0	12963.2	12937.0	12971.4
67.5°	10861.4	13015.6	14586.6	15015.8	14562.1	13995.2	13890.3	13941.2
70°	7265.4	9948.8	12720.7	14784.9	15333.7	15114.2	15010.9	15042.0
72.5°	3489.4	5794.3	8630.1	11374.1	13045.1	13811.8	14057.6	14177.1
75°	1276.1	2300.0	4159.4	6267.7	7566.9	8759.6	9537.7	9855.5
77.5°	769.9	928.8	1328.6	2000.2	2265.6	2535.9	2431.1	2483.6
80°	570.2	643.9	729.0	819.1	848.6	848.6	815.8	789.6
82.5°	399.7	447.2	488.2	537.3	550.4	525.9	432.4	344.0
85°	257.2	278.5	296.5	327.7	319.5	304.8	204.8	181.8
87.5°	118.0	134.3	140.8	155.5	149.0	142.5	101.6	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)