

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: P194146

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194146
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-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40489 lumens
Efficiency: N/A
Efficacy: 121.2 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): 334
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

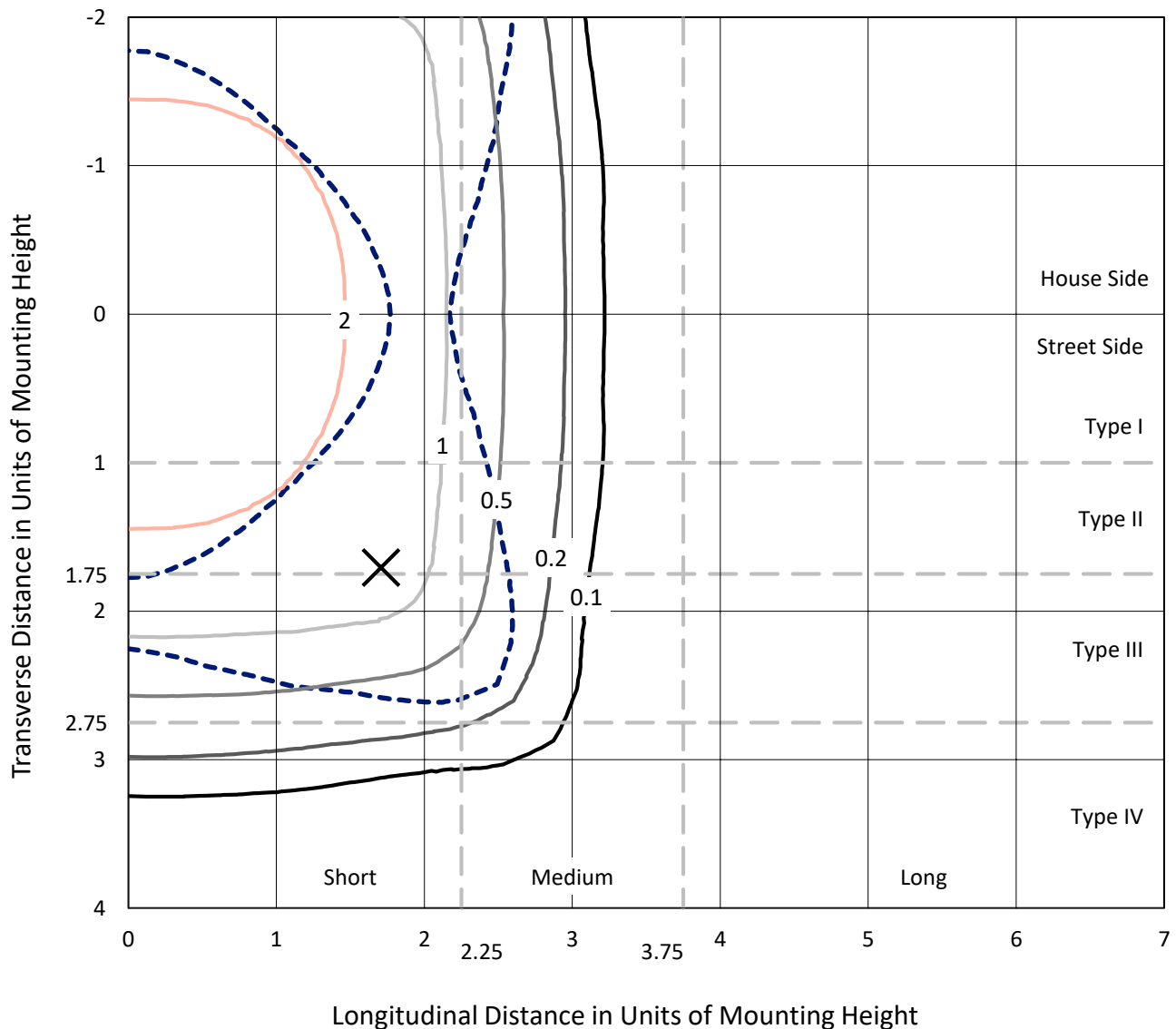


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

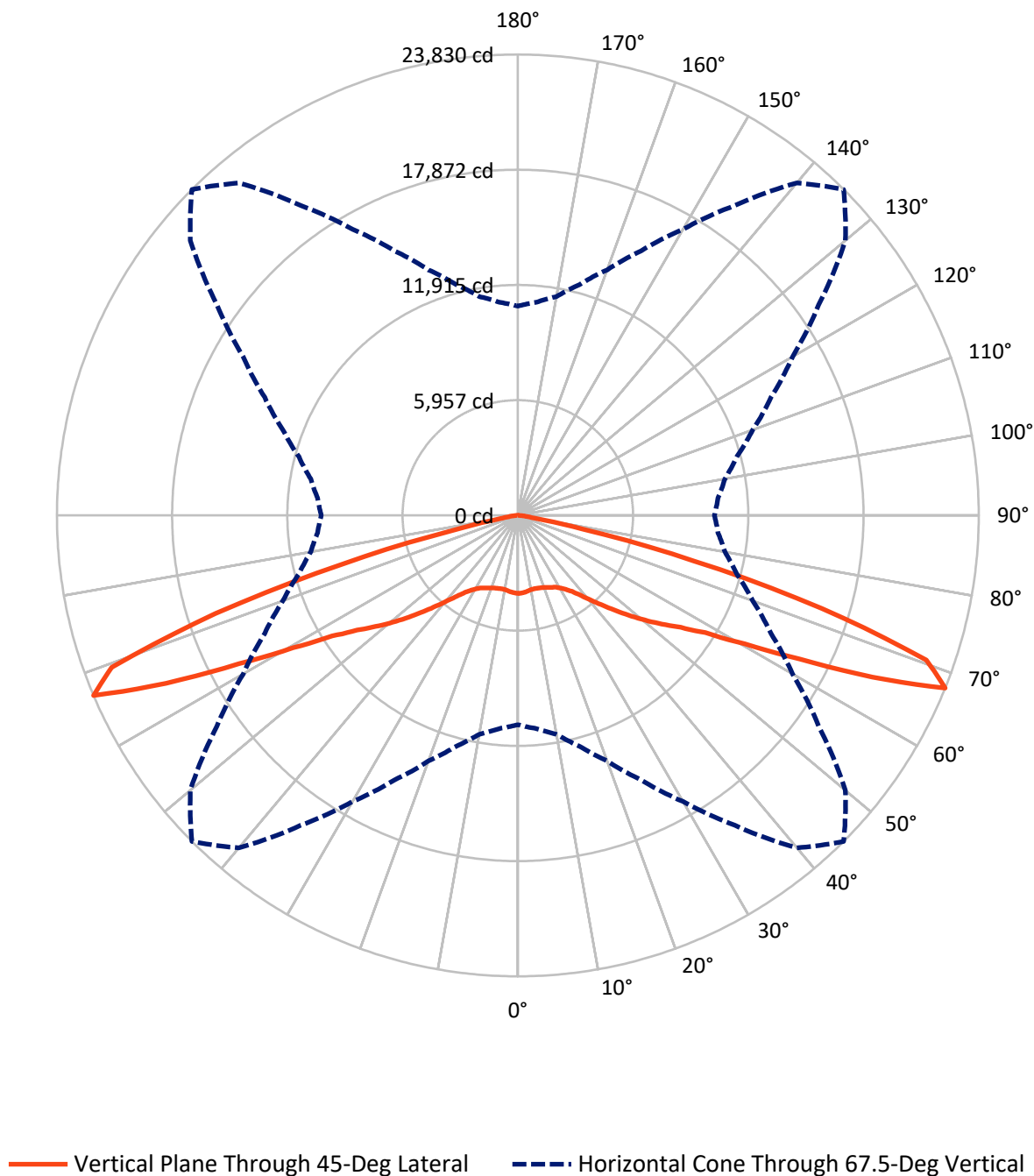


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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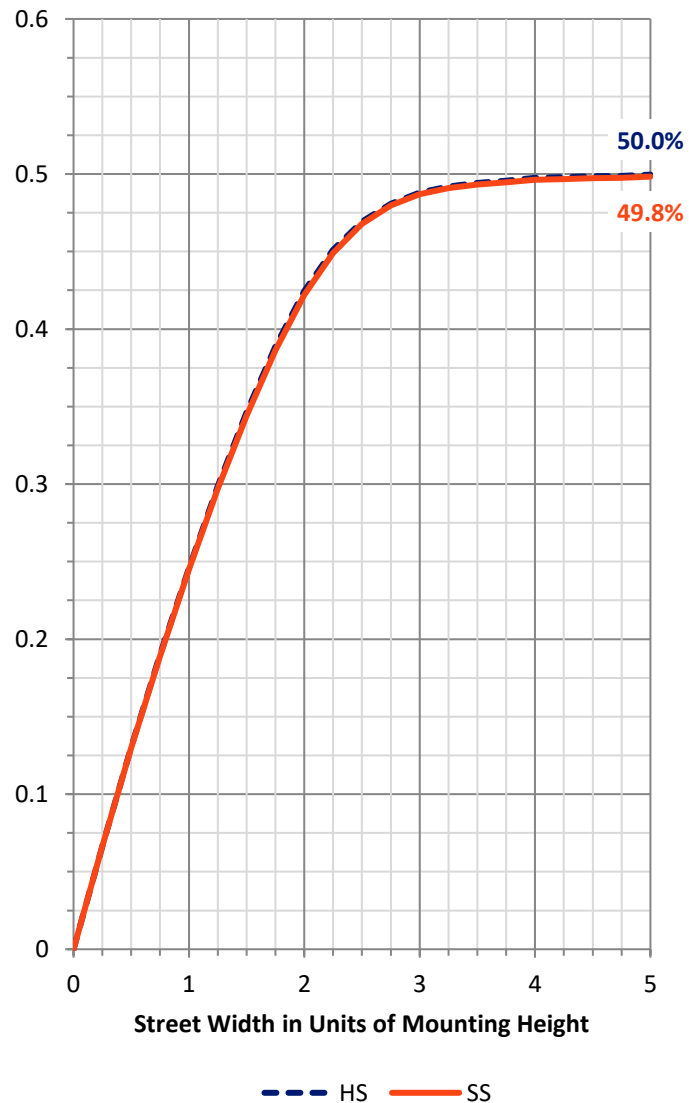
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20244.5	0.0	20244.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20244.5	0.0	20244.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40489.0	0.0	40489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	0.9
10°-20°	1095.9	2.7
20°-30°	1862.9	4.6
30°-40°	3045.3	7.5
40°-50°	5436.5	13.4
50°-60°	9166.1	22.6
60°-70°	14224.4	35.1
70°-80°	4997.8	12.3
80°-90°	282.4	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°	40489.0	100.0
0°-180°	40489.0	100.0

Coefficient of Utilization



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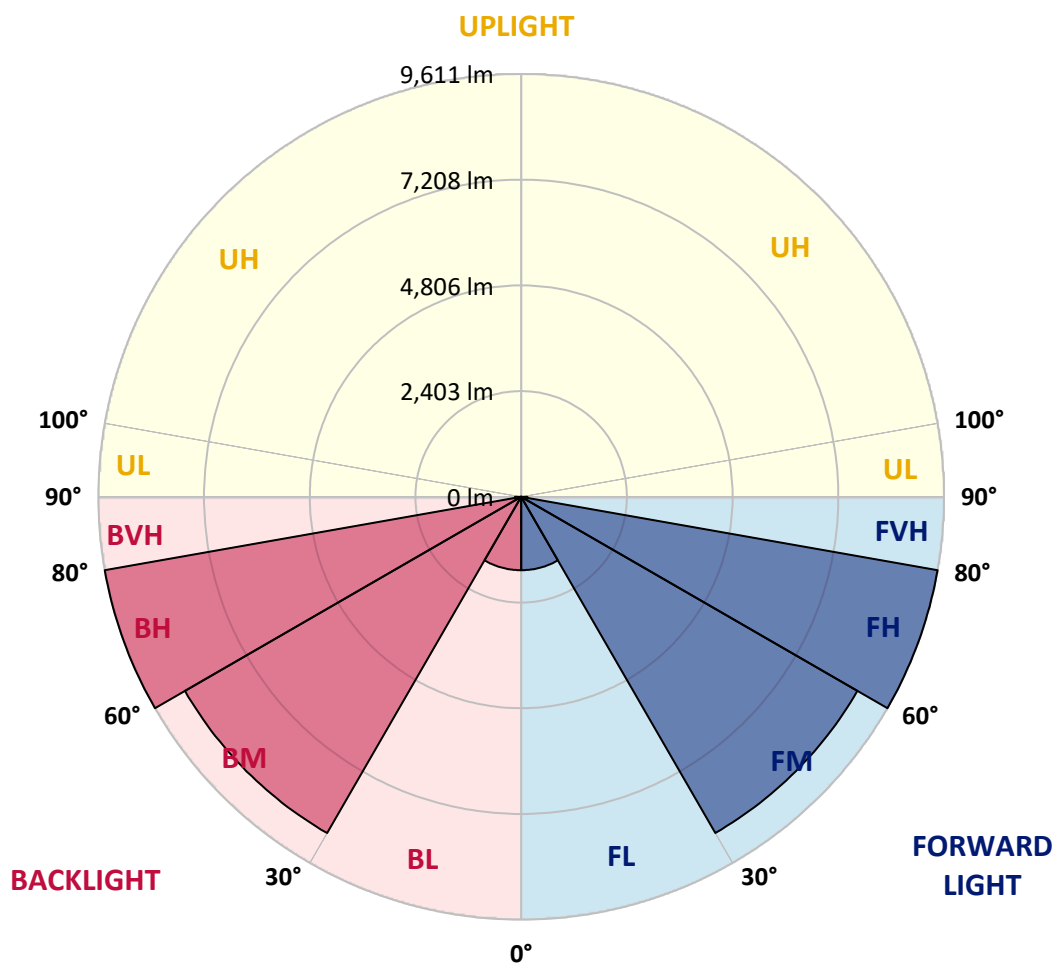
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1668.2	4.1			
FM	(30°-60°)	8824.0	21.8			
FH	(60°-80°)	9611.1	23.7			G4/12000
FVH	(80°-90°)	141.2	0.3			G2/225
BL	(0°-30°)	1668.2	4.1	B3/2500		
BM	(30°-60°)	8824.0	21.8	B5		
BH	(60°-80°)	9611.1	23.7	B5		G4/12000
BVH	(80°-90°)	141.2	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°	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9
2.5°	4020.0	4023.7	4023.7	4023.7	4021.9	4021.9	4018.1	4021.9	4020.0	4014.4	4016.3
5°	3986.5	3990.2	3990.2	3988.4	3993.9	3992.1	3986.5	3990.2	3988.4	3984.6	3986.5
7.5°	3938.1	3943.7	3943.7	3941.8	3947.4	3945.5	3941.8	3943.7	3943.7	3938.1	3938.1
10°	3884.1	3887.8	3887.8	3885.9	3895.3	3895.3	3893.4	3899.0	3900.8	3895.3	3891.5
12.5°	3833.8	3839.4	3839.4	3846.8	3856.2	3859.9	3869.2	3876.6	3884.1	3882.2	3874.8
15°	3804.0	3807.7	3815.2	3824.5	3839.4	3852.4	3867.3	3884.1	3899.0	3902.7	3891.5
17.5°	3785.4	3791.0	3802.2	3815.2	3835.7	3858.0	3880.4	3902.7	3923.2	3930.6	3917.6
20°	3779.8	3783.5	3794.7	3817.0	3845.0	3878.5	3910.1	3936.2	3964.1	3973.5	3964.1
22.5°	3791.0	3798.4	3811.5	3837.5	3874.8	3917.6	3954.8	3990.2	4025.6	4042.3	4029.3
25°	3841.3	3848.7	3865.5	3899.0	3939.9	3984.6	4027.5	4068.4	4100.1	4116.8	4107.5
27.5°	3934.4	3943.7	3964.1	3997.7	4042.3	4090.8	4137.3	4170.8	4196.9	4202.5	4191.3
30°	4074.0	4094.5	4118.7	4155.9	4208.1	4249.0	4295.6	4325.4	4357.0	4357.0	4347.7
32.5°	4291.9	4312.3	4338.4	4373.8	4414.7	4459.4	4500.4	4526.5	4560.0	4561.8	4539.5
35°	4617.7	4627.0	4649.4	4671.7	4708.9	4748.0	4783.4	4800.2	4828.1	4830.0	4809.5
37.5°	5047.8	5049.7	5064.6	5072.0	5105.5	5148.4	5181.9	5193.0	5219.1	5215.4	5194.9
40°	5548.7	5558.0	5563.6	5574.8	5610.1	5651.1	5686.5	5692.1	5720.0	5714.4	5688.3
42.5°	6127.8	6131.5	6163.1	6179.9	6213.4	6233.9	6278.6	6284.2	6317.7	6302.8	6273.0
45°	6777.6	6811.1	6840.9	6874.4	6909.8	6934.0	6969.4	6961.9	6984.3	6961.9	6945.2
47.5°	7460.9	7485.1	7552.2	7604.3	7662.0	7682.5	7732.8	7710.4	7732.8	7701.1	7695.5
50°	8213.2	8256.0	8313.7	8373.3	8434.7	8468.3	8533.4	8505.5	8535.3	8505.5	8488.7
52.5°	8954.2	8965.4	9092.0	9179.5	9265.2	9304.3	9343.4	9330.4	9332.2	9330.4	9313.6
55°	9658.1	9684.1	9810.7	9929.9	10078.9	10188.7	10255.8	10248.3	10231.6	10214.8	10186.9
57.5°	10451.3	10477.3	10622.6	10769.7	10939.1	11095.5	11231.4	11371.1	11425.1	11440.0	11378.5
60°	11523.8	11521.9	11715.5	11894.3	12136.4	12369.1	12667.0	12970.5	13318.7	13480.7	13266.6
62.5°	12614.9	12659.6	12938.9	13255.4	13754.4	14240.4	14789.7	15329.6	15880.8	16329.5	15852.9
65°	12484.5	12655.8	13071.1	13787.9	14709.6	15804.4	16988.7	18241.8	19373.8	20152.2	19278.9
67.5°	10819.9	11063.9	11486.5	12357.9	13510.5	15089.4	17078.0	19556.3	22436.8	23829.6	22103.5
70°	7842.6	8118.2	8561.4	9412.3	10553.7	12054.4	14214.3	17189.8	21003.1	22407.0	20505.9
72.5°	3902.7	4051.7	4325.4	4867.2	5731.2	6948.9	8907.7	11767.7	15141.6	16430.1	14692.8
75°	1325.7	1394.6	1441.2	1618.1	1891.8	2370.3	3344.1	5144.6	7848.2	9408.6	7736.5
77.5°	765.3	767.1	798.8	830.4	877.0	929.1	1059.5	1390.9	2405.7	3416.7	2489.5
80°	495.3	493.4	519.5	543.7	575.4	601.4	608.9	644.2	742.9	880.7	787.6
82.5°	257.0	288.6	346.3	378.0	437.6	448.7	433.8	420.8	445.0	461.8	472.9
85°	141.5	122.9	184.3	238.3	264.4	268.1	268.1	253.2	262.5	257.0	279.3
87.5°	65.2	59.6	72.6	117.3	124.8	106.1	111.7	98.7	70.8	68.9	78.2
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°	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9	4034.9
2.5°	4016.3	4018.1	4018.1	4023.7	4025.6	4029.3	4033.0	4034.9
5°	3984.6	3990.2	3986.5	3992.1	3992.1	3995.8	3995.8	3997.7
7.5°	3938.1	3943.7	3943.7	3943.7	3941.8	3947.4	3947.4	3947.4
10°	3889.7	3893.4	3891.5	3887.8	3884.1	3889.7	3887.8	3885.9
12.5°	3874.8	3865.5	3858.0	3854.3	3846.8	3848.7	3843.1	3843.1
15°	3884.1	3867.3	3854.3	3848.7	3841.3	3837.5	3833.8	3835.7
17.5°	3908.3	3887.8	3871.0	3861.7	3852.4	3846.8	3839.4	3841.3
20°	3951.1	3926.9	3902.7	3884.1	3867.3	3858.0	3852.4	3850.6
22.5°	4014.4	3979.0	3943.7	3915.7	3893.4	3880.4	3874.8	3871.0
25°	4087.0	4047.9	4007.0	3975.3	3953.0	3936.2	3925.0	3925.0
27.5°	4178.3	4146.6	4109.4	4072.1	4051.7	4034.9	4027.5	4023.7
30°	4331.0	4301.2	4271.4	4236.0	4209.9	4193.2	4180.1	4169.0
32.5°	4526.5	4502.3	4478.0	4452.0	4427.8	4405.4	4385.0	4375.6
35°	4802.0	4783.4	4766.7	4736.9	4727.6	4714.5	4703.3	4694.0
37.5°	5181.9	5174.4	5174.4	5142.8	5135.3	5129.7	5118.6	5120.4
40°	5680.9	5688.3	5679.0	5667.9	5662.3	5647.4	5647.4	5660.4
42.5°	6271.1	6276.7	6297.2	6278.6	6299.1	6280.4	6269.3	6278.6
45°	6956.3	6976.8	7017.8	6999.2	7012.2	6980.5	6941.4	6943.3
47.5°	7725.3	7744.0	7760.7	7747.7	7749.5	7697.4	7645.3	7632.2
50°	8524.1	8531.6	8540.9	8522.3	8526.0	8468.3	8408.7	8410.5
52.5°	9313.6	9349.0	9386.2	9335.9	9324.8	9259.6	9175.8	9142.3
55°	10216.7	10266.9	10224.1	10136.6	10049.1	9961.6	9851.7	9833.1
57.5°	11330.1	11244.5	11110.4	10944.7	10823.7	10700.8	10589.1	10542.5
60°	12879.3	12557.2	12315.1	12069.3	11914.8	11764.0	11616.9	11594.5
62.5°	15069.0	14512.2	14030.0	13521.7	13106.4	12782.5	12523.6	12451.0
65°	17813.5	16497.1	15355.7	14290.7	13365.3	12667.0	12227.6	12033.9
67.5°	18994.0	16394.7	14437.8	12925.8	11715.5	10870.2	10395.4	10158.9
70°	16690.7	13596.1	11467.9	9954.1	8851.8	7950.6	7520.5	7267.3
72.5°	11482.8	8648.9	6839.0	5582.2	4701.5	3947.4	3649.5	3627.1
75°	5155.8	3414.9	2353.5	1813.6	1526.8	1327.6	1266.1	1219.6
77.5°	1443.0	1066.9	951.5	890.0	830.4	761.5	735.5	741.1
80°	702.0	662.9	636.8	597.7	543.7	486.0	459.9	471.1
82.5°	465.5	459.9	476.7	448.7	370.5	314.7	264.4	242.1
85°	283.0	286.7	292.3	294.2	249.5	175.0	119.2	134.1
87.5°	111.7	128.5	139.6	145.2	135.9	83.8	67.0	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)