

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: P269601

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269601  
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-09-LED-E1-5MQ-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 48567.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 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): 501  
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

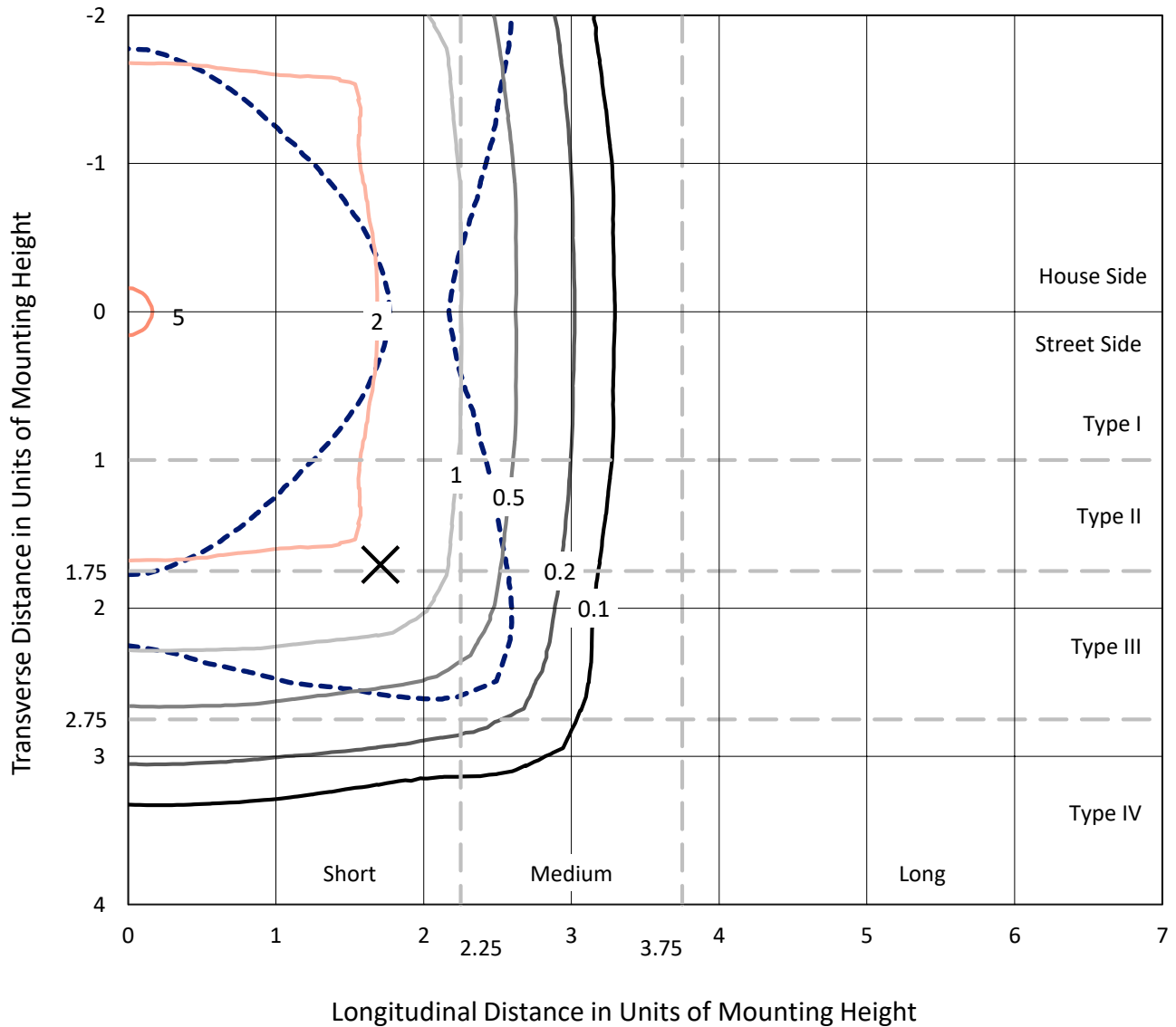


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### Iso-Footcandle Lines of Horizontal Illumination

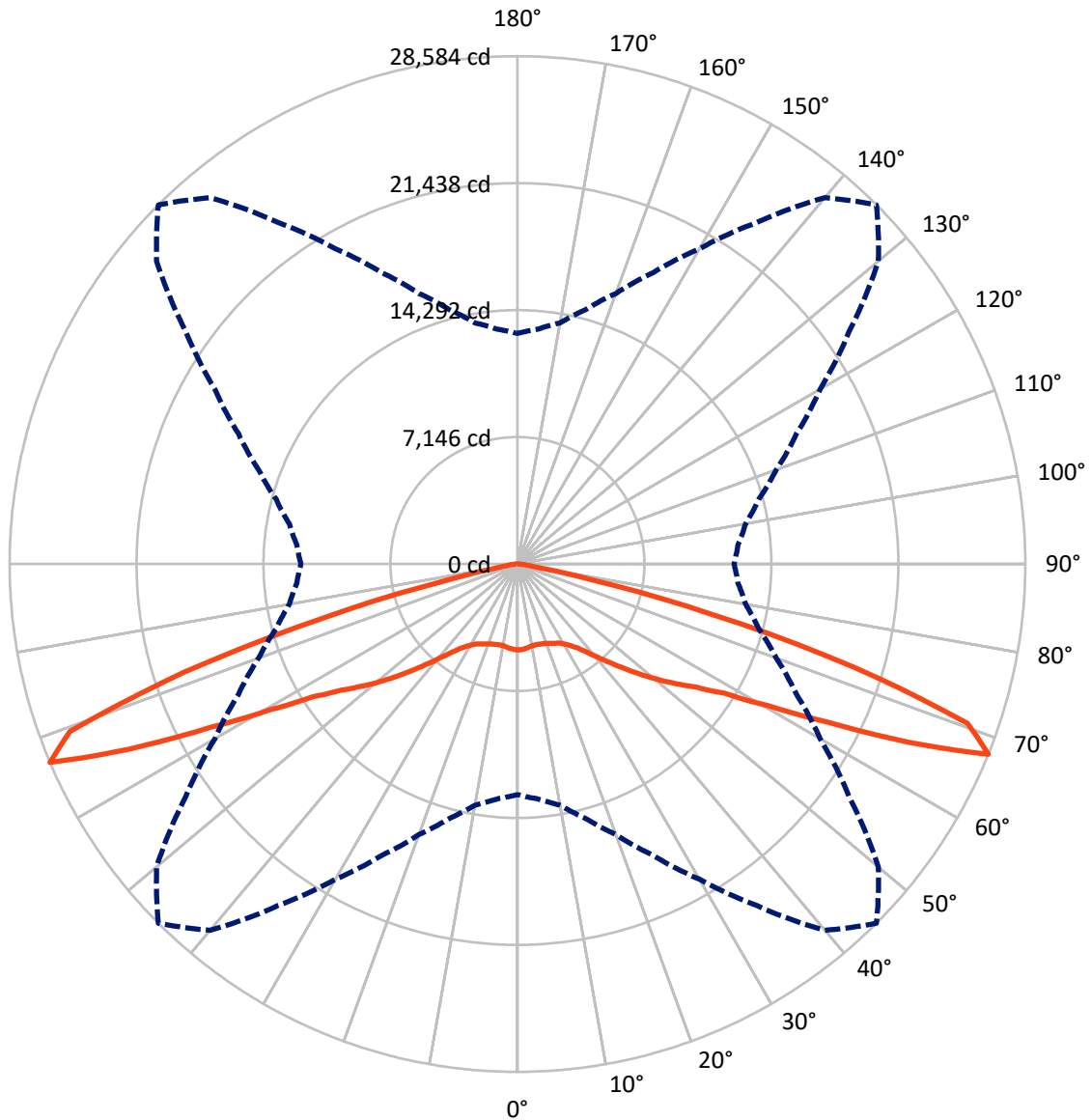
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24283.8	0.0	24283.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24283.8	0.0	24283.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48567.6	0.0	48567.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.0	0.9
10°-20°	1314.5	2.7
20°-30°	2234.7	4.6
30°-40°	3653.0	7.5
40°-50°	6521.2	13.4
50°-60°	10995.0	22.6
60°-70°	17062.5	35.1
70°-80°	5995.0	12.3
80°-90°	338.8	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°	48567.6	100.0
0°-180°	48567.6	100.0



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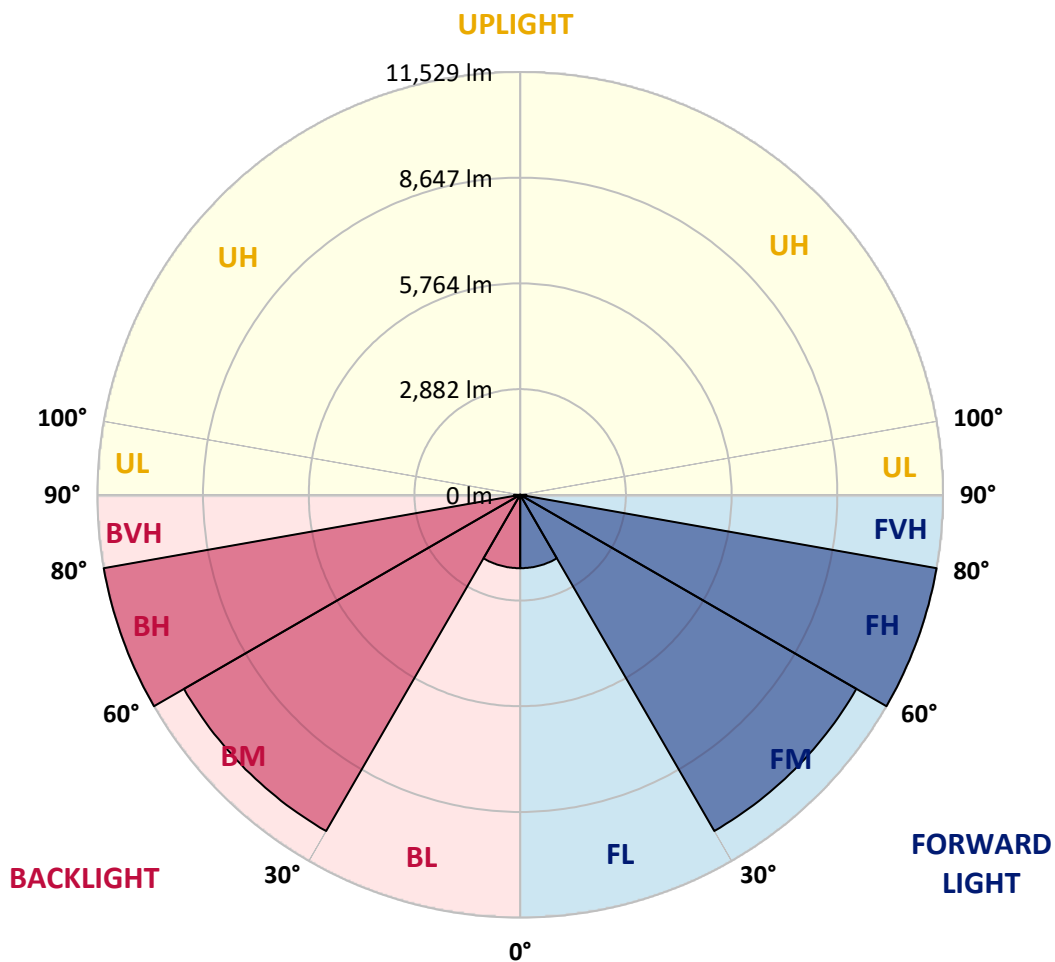
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.1	4.1			
FM	(30°-60°)	10584.6	21.8			
FH	(60°-80°)	11528.8	23.7			G4/12000
FVH	(80°-90°)	169.4	0.3			G2/225
BL	(0°-30°)	2001.1	4.1	B3/2500		
BM	(30°-60°)	10584.6	21.8	B5		
BH	(60°-80°)	11528.8	23.7	B5		G4/12000
BVH	(80°-90°)	169.4	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°	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0
2.5°	4822.1	4826.6	4826.6	4826.6	4824.3	4824.3	4819.9	4824.3	4822.1	4815.5	4817.6
5°	4781.9	4786.3	4786.3	4784.2	4790.8	4788.5	4781.9	4786.3	4784.2	4779.6	4781.9
7.5°	4723.8	4730.6	4730.6	4728.3	4735.0	4732.8	4728.3	4730.6	4730.6	4723.8	4723.8
10°	4659.1	4663.6	4663.6	4661.2	4672.4	4672.4	4670.2	4676.9	4679.1	4672.4	4668.0
12.5°	4598.8	4605.4	4605.4	4614.5	4625.6	4630.0	4641.3	4650.2	4659.1	4656.9	4647.9
15°	4563.0	4567.5	4576.4	4587.6	4605.4	4621.2	4638.9	4659.1	4676.9	4681.3	4668.0
17.5°	4540.8	4547.4	4560.8	4576.4	4600.9	4627.8	4654.6	4681.3	4706.0	4714.9	4699.3
20°	4533.9	4538.4	4551.8	4578.7	4612.2	4652.3	4690.3	4721.6	4755.1	4766.2	4755.1
22.5°	4547.4	4556.4	4572.0	4603.3	4647.9	4699.3	4743.9	4786.3	4828.7	4849.0	4833.3
25°	4607.6	4616.6	4636.7	4676.9	4726.1	4779.6	4831.1	4880.2	4918.1	4938.3	4927.1
27.5°	4719.3	4730.6	4755.1	4795.3	4849.0	4907.0	4962.7	5003.0	5034.3	5041.0	5027.5
30°	4886.9	4911.5	4940.5	4985.1	5047.7	5096.9	5152.7	5188.4	5226.3	5226.3	5215.2
32.5°	5148.1	5172.8	5204.1	5246.6	5295.6	5349.1	5398.4	5429.6	5469.8	5472.0	5445.3
35°	5539.0	5550.2	5576.9	5603.8	5648.5	5695.4	5737.8	5758.0	5791.5	5793.7	5769.2
37.5°	6054.9	6057.2	6075.1	6084.0	6124.3	6175.6	6215.8	6229.1	6260.5	6255.9	6231.5
40°	6655.8	6667.0	6673.7	6687.1	6729.6	6778.6	6821.1	6827.7	6861.3	6854.5	6823.3
42.5°	7350.4	7354.9	7392.8	7413.0	7453.1	7477.8	7531.3	7537.9	7578.2	7560.3	7524.7
45°	8129.9	8170.2	8205.8	8246.0	8288.5	8317.4	8359.9	8351.1	8377.9	8351.1	8330.9
47.5°	8949.5	8978.6	9059.0	9121.6	9190.7	9215.4	9275.7	9248.9	9275.7	9237.7	9231.1
50°	9851.9	9903.3	9972.5	10043.9	10117.7	10157.9	10236.0	10202.6	10238.3	10202.6	10182.5
52.5°	10740.9	10754.2	10906.1	11011.2	11113.8	11160.7	11207.7	11192.1	11194.3	11192.1	11172.0
55°	11585.1	11616.3	11768.2	11911.2	12089.8	12221.6	12302.1	12293.1	12273.1	12252.9	12219.5
57.5°	12536.6	12567.8	12742.1	12918.4	13121.7	13309.4	13472.4	13640.0	13704.7	13722.6	13648.8
60°	13823.1	13820.9	14053.2	14267.5	14557.9	14837.0	15194.4	15558.5	15976.1	16170.5	15913.7
62.5°	15131.9	15185.5	15520.5	15900.2	16498.8	17081.7	17740.5	18388.3	19049.4	19587.7	19016.0
65°	14975.6	15181.0	15679.0	16539.0	17644.6	18957.8	20378.3	21881.5	23239.4	24173.0	23125.5
67.5°	12978.8	13271.4	13778.5	14823.7	16206.2	18100.2	20485.6	23458.2	26913.5	28584.2	26513.7
70°	9407.5	9737.9	10269.6	11290.3	12659.5	14459.6	17050.5	20619.5	25193.8	26877.7	24597.4
72.5°	4681.3	4860.1	5188.4	5838.4	6874.6	8335.4	10685.0	14115.6	18162.7	19708.4	17624.4
75°	1590.2	1672.9	1728.7	1940.9	2269.2	2843.2	4011.3	6171.1	9414.1	11285.9	9280.1
77.5°	918.0	920.3	958.1	996.1	1051.9	1114.4	1270.8	1668.4	2885.6	4098.4	2986.1
80°	594.0	591.9	623.2	652.2	690.2	721.3	730.3	772.8	891.2	1056.4	944.7
82.5°	308.2	346.1	415.5	453.5	524.9	538.3	520.4	504.8	533.9	554.0	567.3
85°	169.7	147.4	221.2	285.9	317.1	321.7	321.7	303.7	314.9	308.2	335.0
87.5°	78.2	71.4	87.0	140.8	149.7	127.3	133.9	118.3	84.9	82.6	93.9
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°	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0
2.5°	4817.6	4819.9	4819.9	4826.6	4828.7	4833.3	4837.7	4840.0
5°	4779.6	4786.3	4781.9	4788.5	4788.5	4793.0	4793.0	4795.3
7.5°	4723.8	4730.6	4730.6	4730.6	4728.3	4735.0	4735.0	4735.0
10°	4665.7	4670.2	4668.0	4663.6	4659.1	4665.7	4663.6	4661.2
12.5°	4647.9	4636.7	4627.8	4623.3	4614.5	4616.6	4609.9	4609.9
15°	4659.1	4638.9	4623.3	4616.6	4607.6	4603.3	4598.8	4600.9
17.5°	4688.1	4663.6	4643.3	4632.3	4621.2	4614.5	4605.4	4607.6
20°	4739.5	4710.4	4681.3	4659.1	4638.9	4627.8	4621.2	4618.8
22.5°	4815.5	4773.0	4730.6	4697.0	4670.2	4654.6	4647.9	4643.3
25°	4902.5	4855.6	4806.6	4768.6	4741.8	4721.6	4708.1	4708.1
27.5°	5012.0	4973.9	4929.3	4884.7	4860.1	4840.0	4831.1	4826.6
30°	5195.1	5159.3	5123.7	5081.3	5049.9	5029.8	5014.2	5000.8
32.5°	5429.6	5400.6	5371.5	5340.2	5311.1	5284.4	5259.8	5248.6
35°	5760.1	5737.8	5717.7	5682.0	5670.8	5655.2	5641.7	5630.7
37.5°	6215.8	6206.8	6206.8	6168.9	6159.9	6153.3	6139.8	6142.2
40°	6814.4	6823.3	6812.1	6798.7	6792.1	6774.2	6774.2	6789.7
42.5°	7522.3	7529.1	7553.7	7531.3	7556.0	7533.5	7520.2	7531.3
45°	8344.4	8368.9	8417.9	8395.6	8411.3	8373.3	8326.4	8328.6
47.5°	9266.7	9289.1	9309.1	9293.5	9295.8	9233.3	9170.6	9155.0
50°	10224.9	10233.9	10245.0	10222.7	10227.2	10157.9	10086.3	10088.7
52.5°	11172.0	11214.4	11258.9	11198.7	11185.3	11107.2	11006.7	10966.4
55°	12255.1	12315.5	12264.1	12159.1	12054.1	11949.2	11817.5	11795.0
57.5°	13590.7	13488.1	13327.3	13128.5	12983.3	12835.8	12701.9	12646.0
60°	15449.1	15062.6	14772.3	14477.4	14292.2	14111.1	13934.8	13907.9
62.5°	18075.7	17407.8	16829.3	16219.5	15721.5	15332.9	15022.4	14935.3
65°	21367.8	19788.8	18419.6	17142.0	16032.1	15194.4	14667.3	14435.0
67.5°	22783.8	19665.9	17318.5	15504.8	14053.2	13039.1	12469.6	12185.9
70°	20021.0	16308.9	13756.0	11940.2	10618.0	9536.9	9021.0	8717.3
72.5°	13773.9	10374.5	8203.6	6696.0	5639.6	4735.0	4377.6	4350.9
75°	6184.6	4096.2	2823.2	2175.4	1831.5	1592.4	1518.8	1462.9
77.5°	1730.9	1279.7	1141.2	1067.6	996.1	913.4	882.2	889.0
80°	842.0	795.1	763.9	716.9	652.2	582.9	551.6	565.0
82.5°	558.3	551.6	571.9	538.3	444.5	377.5	317.1	290.3
85°	339.5	344.0	350.7	352.9	299.2	209.9	142.9	160.7
87.5°	133.9	154.1	167.5	174.2	163.0	100.5	80.4	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)