

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: P191608

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191608  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 50006 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

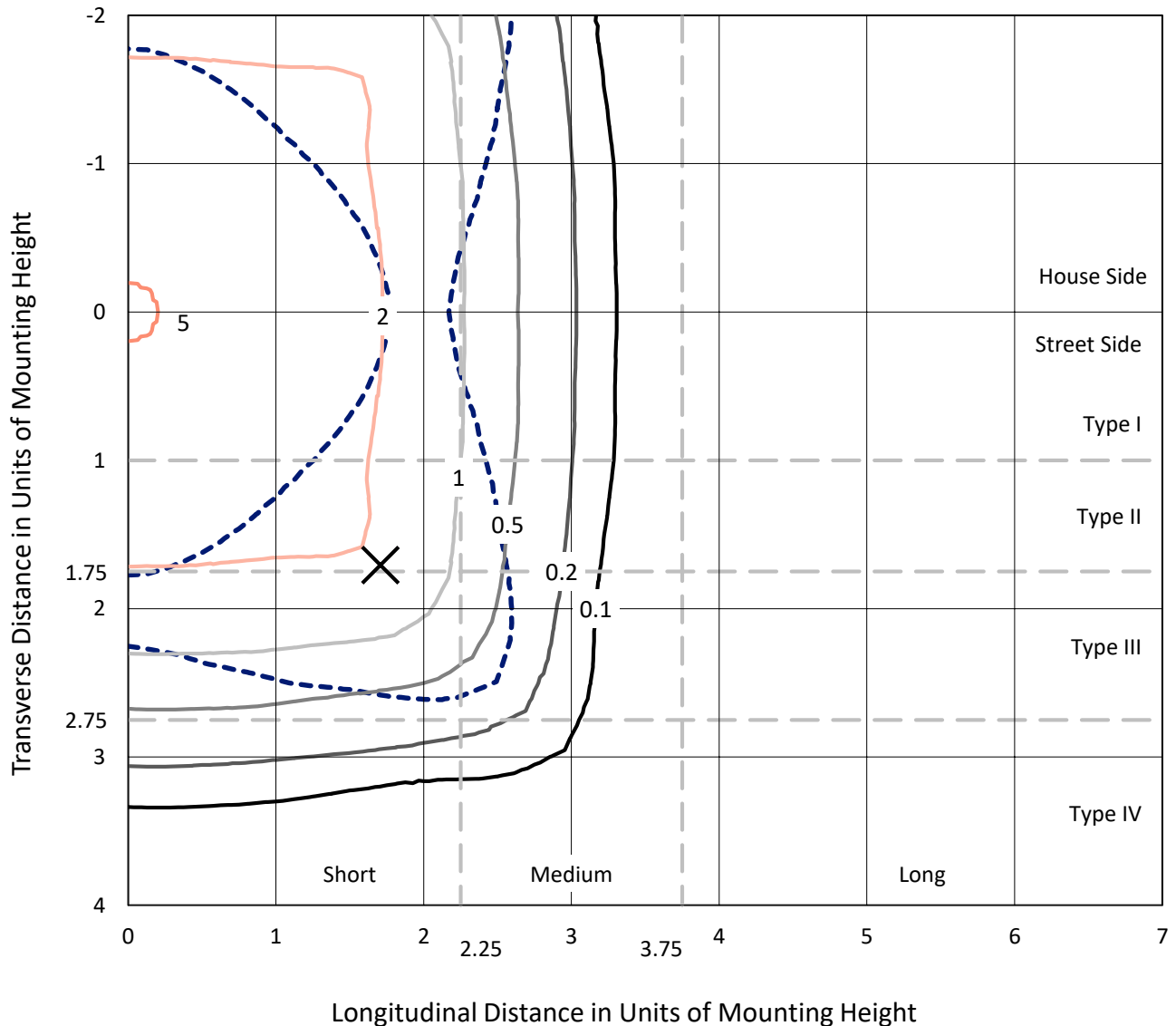
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

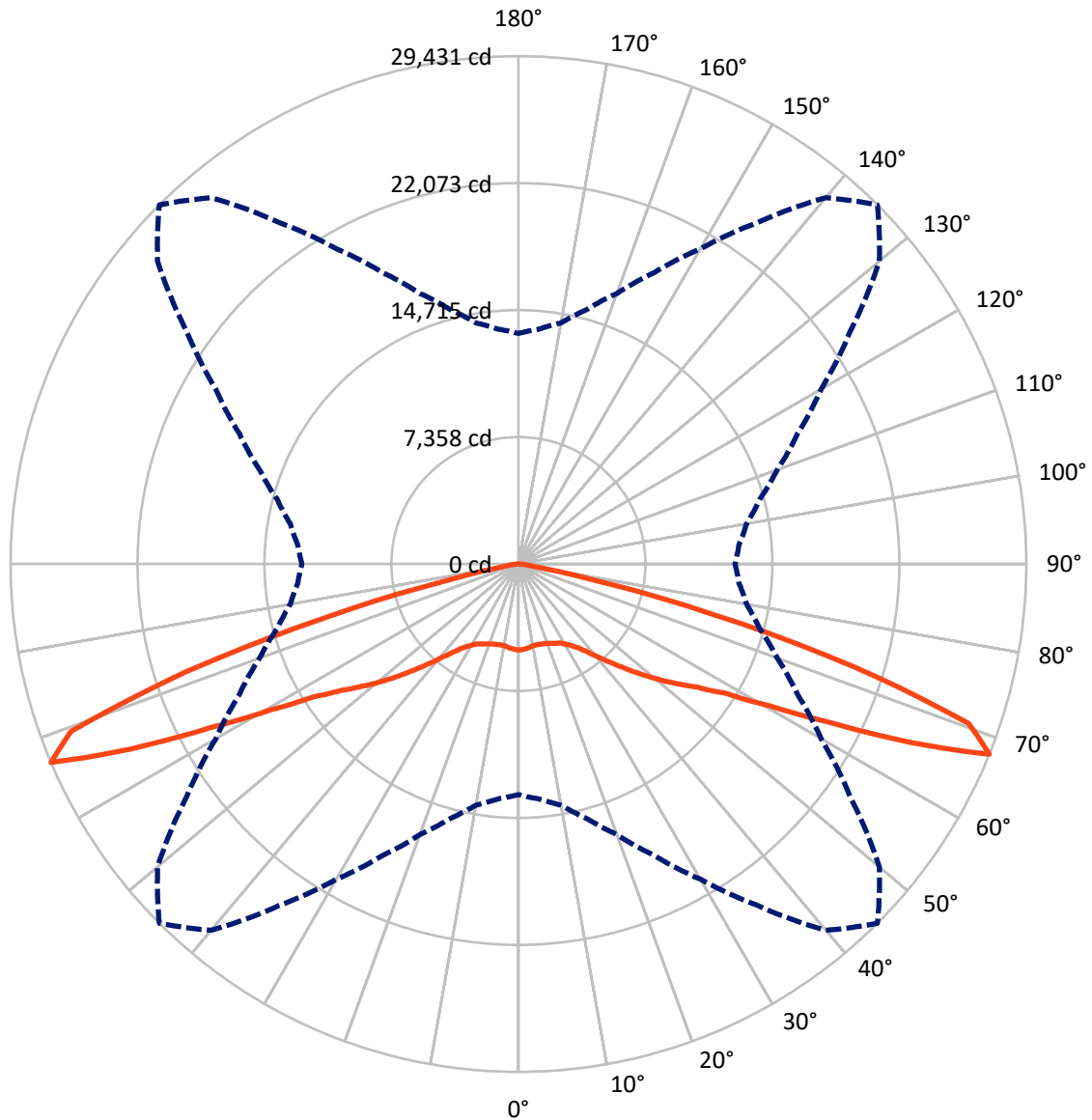


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Full Cutoff

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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	25003.0	0.0	25003.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25003.0	0.0	25003.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50006.0	0.0	50006.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.4	0.9
10°-20°	1353.4	2.7
20°-30°	2300.8	4.6
30°-40°	3761.2	7.5
40°-50°	6714.3	13.4
50°-60°	11320.6	22.6
60°-70°	17567.8	35.1
70°-80°	6172.6	12.3
80°-90°	348.8	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°	50006.0	100.0
0°-180°	50006.0	100.0



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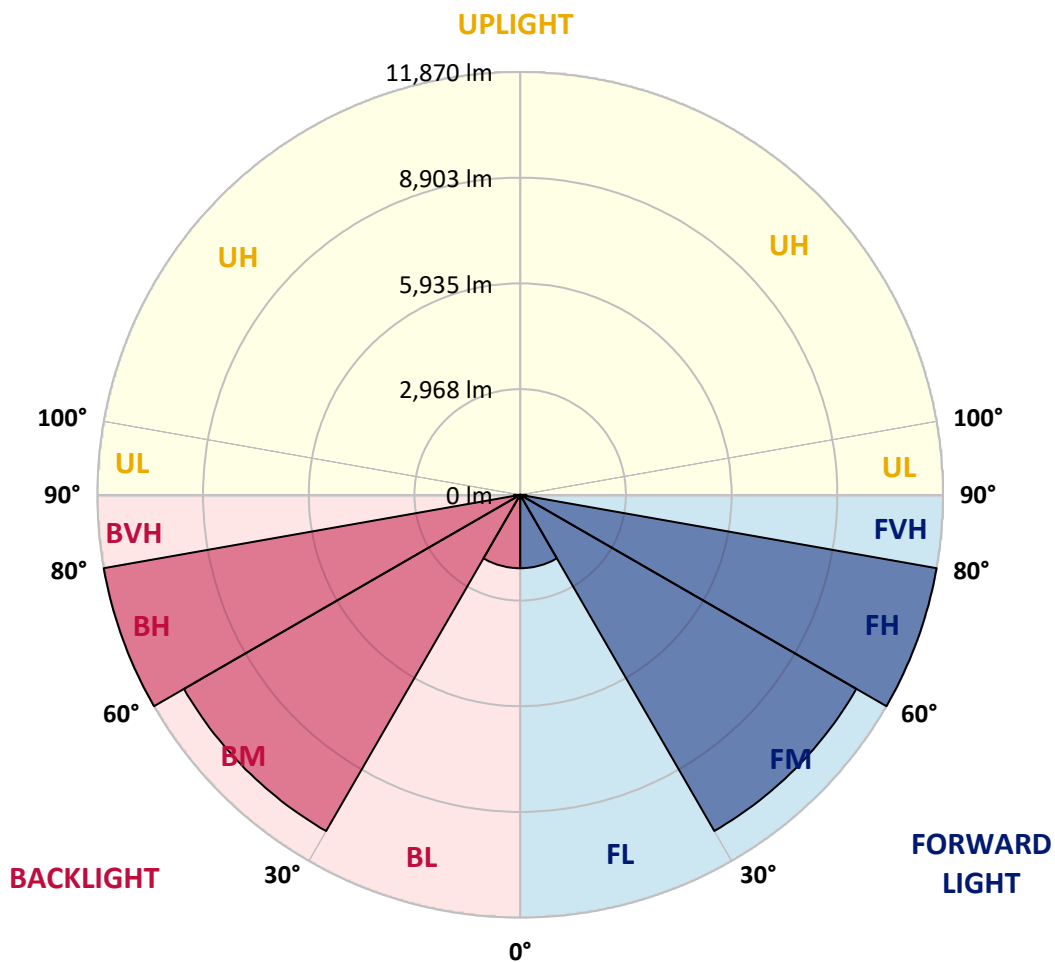
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.3	4.1			
FM (30°-60°)	10898.0	21.8			
FH (60°-80°)	11870.2	23.7			G4/12000
FVH (80°-90°)	174.4	0.3			G2/225
BL (0°-30°)	2060.3	4.1	B3/2500		
BM (30°-60°)	10898.0	21.8	B5		
BH (60°-80°)	11870.2	23.7	B5		G4/12000
BVH (80°-90°)	174.4	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°	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3
2.5°	4964.9	4969.5	4969.5	4969.5	4967.2	4967.2	4962.6	4967.2	4964.9	4958.0	4960.3
5°	4923.5	4928.1	4928.1	4925.8	4932.7	4930.4	4923.5	4928.1	4925.8	4921.2	4923.5
7.5°	4863.7	4870.6	4870.6	4868.3	4875.2	4872.9	4868.3	4870.6	4870.6	4863.7	4863.7
10°	4797.0	4801.6	4801.6	4799.3	4810.8	4810.8	4808.5	4815.4	4817.7	4810.8	4806.2
12.5°	4734.9	4741.8	4741.8	4751.0	4762.5	4767.1	4778.6	4787.8	4797.0	4794.7	4785.5
15°	4698.2	4702.8	4712.0	4723.5	4741.8	4757.9	4776.3	4797.0	4815.4	4820.0	4806.2
17.5°	4675.2	4682.1	4695.9	4712.0	4737.2	4764.8	4792.4	4820.0	4845.3	4854.5	4838.4
20°	4668.3	4672.9	4686.7	4714.3	4748.7	4790.1	4829.2	4861.4	4895.9	4907.4	4895.9
22.5°	4682.1	4691.3	4707.4	4739.5	4785.5	4838.4	4884.4	4928.1	4971.8	4992.5	4976.4
25°	4744.1	4753.3	4774.0	4815.4	4866.0	4921.2	4974.1	5024.7	5063.8	5084.5	5073.0
27.5°	4859.1	4870.6	4895.9	4937.3	4992.5	5052.3	5109.8	5151.2	5183.4	5190.3	5176.5
30°	5031.6	5056.9	5086.8	5132.8	5197.2	5247.8	5305.3	5342.1	5381.1	5381.1	5369.6
32.5°	5300.7	5326.0	5358.1	5401.8	5452.4	5507.6	5558.2	5590.4	5631.8	5634.1	5606.5
35°	5703.1	5714.6	5742.2	5769.8	5815.8	5864.1	5907.8	5928.5	5963.0	5965.3	5940.0
37.5°	6234.3	6236.6	6255.0	6264.2	6305.6	6358.5	6399.9	6413.7	6445.9	6441.3	6416.0
40°	6852.9	6864.4	6871.3	6885.1	6928.8	6979.4	7023.1	7030.0	7064.5	7057.6	7025.4
42.5°	7568.1	7572.7	7611.8	7632.5	7673.9	7699.2	7754.4	7761.3	7802.7	7784.3	7747.5
45°	8370.7	8412.1	8448.9	8490.3	8533.9	8563.8	8607.5	8598.3	8625.9	8598.3	8577.6
47.5°	9214.6	9244.5	9327.3	9391.7	9463.0	9488.3	9550.4	9522.8	9550.4	9511.3	9504.4
50°	10143.7	10196.6	10267.9	10341.5	10417.3	10458.7	10539.2	10504.7	10541.5	10504.7	10484.0
52.5°	11058.9	11072.7	11229.1	11337.2	11443.0	11491.3	11539.6	11523.5	11525.8	11523.5	11502.8
55°	11928.2	11960.4	12116.8	12264.0	12447.9	12583.6	12666.4	12657.2	12636.5	12615.8	12581.3
57.5°	12907.9	12940.0	13119.4	13301.1	13510.4	13703.5	13871.4	14043.9	14110.6	14129.0	14053.1
60°	14232.4	14230.1	14469.3	14690.1	14989.0	15276.5	15644.4	16019.3	16449.3	16649.4	16384.9
62.5°	15580.0	15635.2	15980.2	16371.1	16987.4	17587.6	18266.0	18932.9	19613.6	20167.8	19579.1
65°	15419.1	15630.6	16143.4	17028.8	18167.1	19519.3	20981.9	22529.5	23927.7	24888.9	23810.4
67.5°	13363.2	13664.4	14186.4	15262.7	16686.2	18636.2	21092.3	24153.1	27710.6	29430.7	27299.0
70°	9686.1	10026.4	10573.7	11624.7	13034.3	14887.8	17555.4	21230.2	25939.9	27673.8	25325.9
72.5°	4820.0	5004.0	5342.1	6011.2	7078.3	8582.2	11001.5	14533.7	18700.6	20292.0	18146.4
75°	1637.3	1722.4	1779.9	1998.4	2336.4	2927.4	4130.1	6353.9	9693.0	11620.1	9555.0
77.5°	945.1	947.4	986.5	1025.6	1083.1	1147.5	1308.5	1717.8	2971.1	4219.8	3074.6
80°	611.7	609.4	641.6	671.5	710.6	742.8	752.0	795.7	917.6	1087.7	972.7
82.5°	317.3	356.4	427.7	466.8	540.4	554.2	535.8	519.7	549.6	570.3	584.1
85°	174.8	151.8	227.7	294.4	326.5	331.1	331.1	312.8	324.2	317.3	344.9
87.5°	80.5	73.6	89.7	144.9	154.1	131.1	138.0	121.9	87.4	85.1	96.6
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°	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3	4983.3
2.5°	4960.3	4962.6	4962.6	4969.5	4971.8	4976.4	4981.0	4983.3
5°	4921.2	4928.1	4923.5	4930.4	4930.4	4935.0	4935.0	4937.3
7.5°	4863.7	4870.6	4870.6	4870.6	4868.3	4875.2	4875.2	4875.2
10°	4803.9	4808.5	4806.2	4801.6	4797.0	4803.9	4801.6	4799.3
12.5°	4785.5	4774.0	4764.8	4760.2	4751.0	4753.3	4746.4	4746.4
15°	4797.0	4776.3	4760.2	4753.3	4744.1	4739.5	4734.9	4737.2
17.5°	4826.9	4801.6	4780.9	4769.4	4757.9	4751.0	4741.8	4744.1
20°	4879.8	4849.9	4820.0	4797.0	4776.3	4764.8	4757.9	4755.6
22.5°	4958.0	4914.3	4870.6	4836.1	4808.5	4792.4	4785.5	4780.9
25°	5047.7	4999.4	4948.8	4909.7	4882.1	4861.4	4847.6	4847.6
27.5°	5160.4	5121.3	5075.3	5029.3	5004.0	4983.3	4974.1	4969.5
30°	5349.0	5312.2	5275.4	5231.7	5199.5	5178.8	5162.7	5148.9
32.5°	5590.4	5560.5	5530.6	5498.4	5468.5	5440.9	5415.6	5404.1
35°	5930.8	5907.8	5887.1	5850.3	5838.8	5822.7	5808.9	5797.4
37.5°	6399.9	6390.7	6390.7	6351.6	6342.4	6335.5	6321.7	6324.0
40°	7016.2	7025.4	7013.9	7000.1	6993.2	6974.8	6974.8	6990.9
42.5°	7745.2	7752.1	7777.4	7754.4	7779.7	7756.7	7742.9	7754.4
45°	8591.4	8616.7	8667.3	8644.3	8660.4	8621.3	8573.0	8575.3
47.5°	9541.2	9564.2	9584.9	9568.8	9571.1	9506.7	9442.3	9426.2
50°	10527.7	10536.9	10548.4	10525.4	10530.0	10458.7	10385.2	10387.5
52.5°	11502.8	11546.5	11592.5	11530.4	11516.6	11436.1	11332.6	11291.2
55°	12618.1	12680.2	12627.3	12519.2	12411.1	12303.0	12167.4	12144.4
57.5°	13993.3	13887.5	13721.9	13517.3	13367.8	13216.0	13078.0	13020.5
60°	15906.6	15508.7	15209.8	14906.2	14715.4	14529.1	14347.4	14319.8
62.5°	18610.9	17923.4	17327.7	16699.9	16187.1	15787.0	15467.3	15377.7
65°	22000.6	20374.8	18965.1	17649.7	16506.8	15644.4	15101.7	14862.5
67.5°	23458.6	20248.3	17831.4	15964.1	14469.3	13425.3	12838.9	12546.8
70°	20613.9	16791.9	14163.5	12293.8	10932.5	9819.4	9288.2	8975.5
72.5°	14181.8	10681.8	8446.6	6894.3	5806.6	4875.2	4507.3	4479.7
75°	6367.7	4217.5	2906.7	2239.8	1885.7	1639.6	1563.8	1506.3
77.5°	1782.2	1317.7	1175.1	1099.2	1025.6	940.6	908.4	915.3
80°	867.0	818.7	786.5	738.2	671.5	600.2	568.0	581.8
82.5°	574.9	568.0	588.7	554.2	457.6	388.6	326.5	299.0
85°	349.5	354.1	361.0	363.3	308.2	216.2	147.2	165.6
87.5°	138.0	158.7	172.5	179.4	167.9	103.5	82.8	85.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)