

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: P193405

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-5NQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38875 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 448  
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

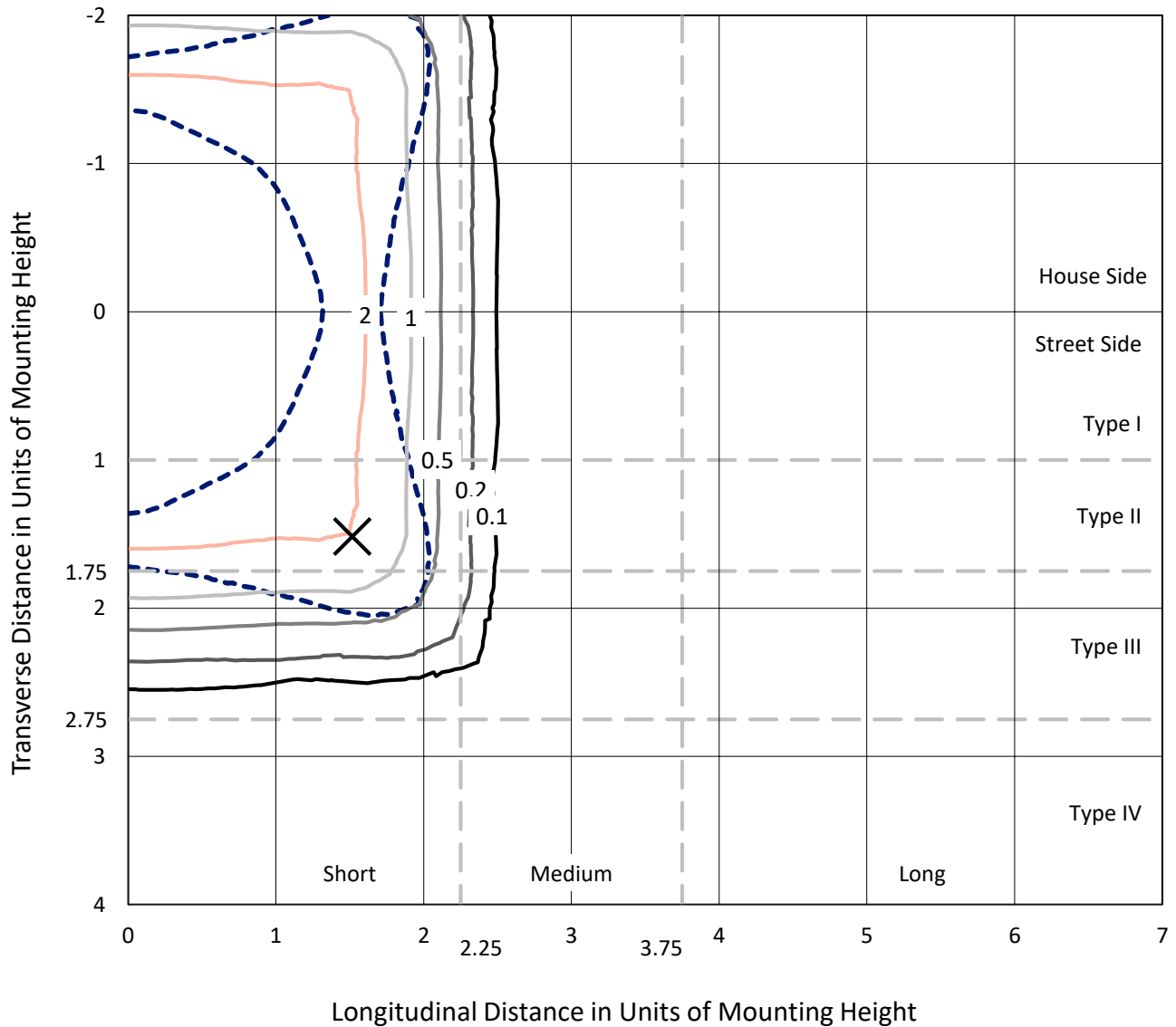


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

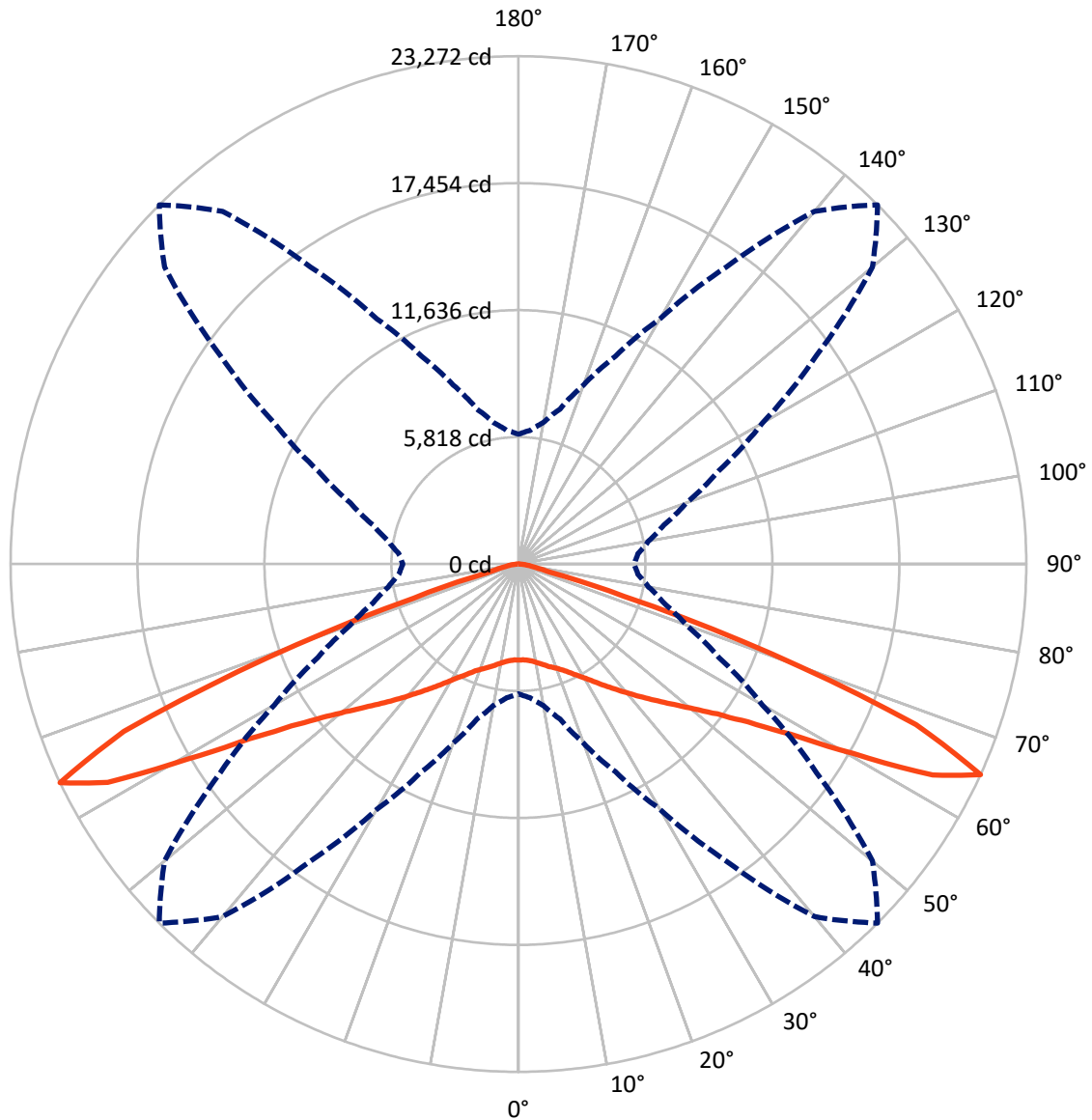


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19437.5	0.0	19437.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19437.5	0.0	19437.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38875.0	0.0	38875.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.7	1.1
10°-20°	1375.0	3.5
20°-30°	2571.0	6.6
30°-40°	4348.3	11.2
40°-50°	7110.0	18.3
50°-60°	11306.0	29.1
60°-70°	10219.9	26.3
70°-80°	1293.4	3.3
80°-90°	222.5	0.6
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°	38875.0	100.0
0°-180°	38875.0	100.0



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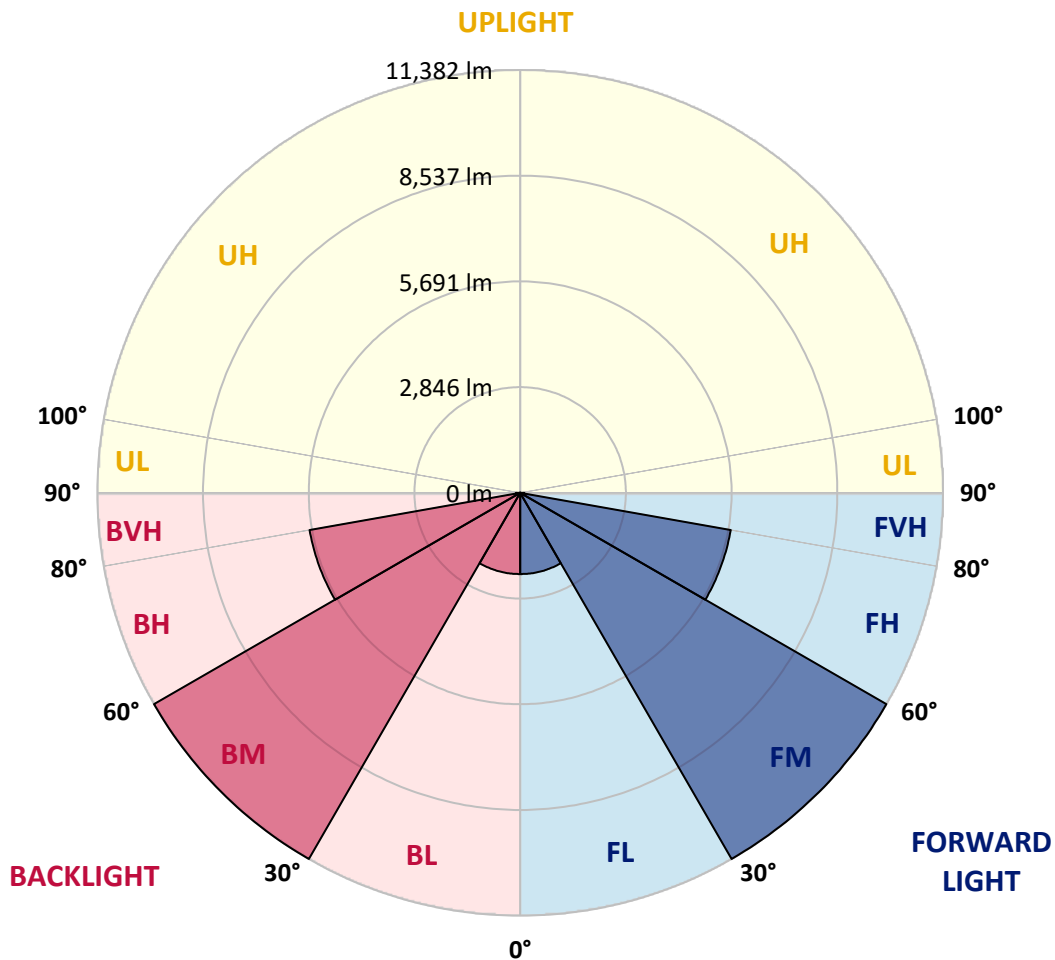
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.4	5.6			
FM (30°-60°)	11382.2	29.3			
FH (60°-80°)	5756.6	14.8			G3/7500
FVH (80°-90°)	111.2	0.3			G2/225
BL (0°-30°)	2187.4	5.6	B3/2500		
BM (30°-60°)	11382.2	29.3	B5		
BH (60°-80°)	5756.6	14.8	B5		G3/7500
BVH (80°-90°)	111.2	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7
2.5°	4402.4	4406.0	4409.7	4406.0	4409.7	4404.2	4400.5	4406.0	4400.5	4395.1	4398.7
5°	4440.6	4442.4	4442.4	4437.0	4442.4	4438.8	4433.3	4440.6	4435.1	4429.7	4433.3
7.5°	4504.3	4511.6	4506.1	4500.7	4504.3	4500.7	4497.0	4498.9	4497.0	4491.6	4493.4
10°	4589.9	4595.4	4591.7	4589.9	4593.5	4591.7	4588.1	4586.3	4588.1	4582.6	4582.6
12.5°	4693.7	4691.9	4690.0	4691.9	4697.3	4697.3	4695.5	4697.3	4701.0	4702.8	4699.1
15°	4795.6	4799.3	4799.3	4799.3	4810.2	4819.3	4824.8	4828.4	4835.7	4837.5	4830.2
17.5°	4923.1	4923.1	4921.3	4923.1	4934.0	4948.6	4954.0	4961.3	4968.6	4974.1	4965.0
20°	5065.1	5068.7	5068.7	5072.4	5086.9	5103.3	5103.3	5107.0	5103.3	5107.0	5101.5
22.5°	5238.1	5249.0	5249.0	5250.8	5265.4	5285.4	5279.9	5285.4	5276.3	5283.6	5276.3
25°	5463.8	5480.2	5476.6	5476.6	5487.5	5500.2	5502.1	5513.0	5511.2	5520.3	5514.8
27.5°	5718.7	5744.2	5751.5	5749.7	5756.9	5769.7	5773.3	5786.1	5778.8	5786.1	5782.4
30°	6024.6	6035.5	6050.1	6055.5	6064.6	6077.4	6077.4	6079.2	6070.1	6081.0	6086.5
32.5°	6341.4	6361.4	6376.0	6408.7	6425.1	6434.2	6432.4	6436.1	6426.9	6441.5	6452.4
35°	6760.1	6774.7	6798.4	6823.9	6845.7	6843.9	6838.4	6840.2	6840.2	6853.0	6863.9
37.5°	7264.5	7268.1	7299.0	7335.5	7346.4	7335.5	7302.7	7295.4	7279.0	7295.4	7313.6
40°	7797.9	7810.7	7872.6	7896.2	7901.7	7881.7	7834.3	7807.0	7770.6	7790.6	7816.1
42.5°	8356.9	8382.3	8438.8	8480.7	8498.9	8486.1	8420.6	8378.7	8331.4	8342.3	8367.8
45°	8975.9	9006.8	9086.9	9127.0	9161.6	9141.6	9077.8	9014.1	8939.5	8944.9	8985.0
47.5°	9667.7	9698.7	9802.5	9869.8	9888.0	9884.4	9813.4	9726.0	9624.0	9620.4	9655.0
50°	10443.3	10474.3	10603.6	10707.3	10760.1	10754.7	10670.9	10547.1	10423.3	10425.1	10468.8
52.5°	11200.7	11239.0	11373.7	11552.1	11655.9	11730.5	11679.6	11563.0	11411.9	11415.6	11455.6
55°	11910.8	11974.5	12129.3	12371.4	12564.4	12773.8	12833.9	12830.2	12739.2	12764.7	12804.7
57.5°	12254.9	12349.6	12588.1	12970.4	13363.7	13789.7	14150.2	14419.7	14534.4	14707.3	14667.3
60°	11603.1	11754.2	12105.6	12668.2	13445.6	14334.1	15286.3	16216.7	17010.5	17609.5	17265.4
62.5°	9500.2	9696.9	10122.9	10843.9	12020.0	13442.0	15264.5	17463.8	19859.8	21305.4	20273.1
65°	5944.5	6148.4	6581.7	7353.7	8730.1	10498.0	12970.4	16615.4	21092.4	23271.7	21170.7
67.5°	2317.7	2428.8	2663.6	3157.0	4191.2	5764.2	8245.8	12382.3	17736.9	19646.8	17407.4
70°	1161.6	1172.5	1216.2	1307.2	1529.4	1986.3	3022.3	5740.6	10172.1	12285.8	9806.1
72.5°	839.3	841.1	863.0	903.0	974.1	1076.0	1272.6	1756.9	3308.1	5056.0	3100.6
75°	642.7	650.0	662.7	684.6	722.8	773.8	844.8	1012.3	1254.4	1454.7	1223.5
77.5°	495.2	509.8	518.9	538.9	562.6	597.2	617.2	680.9	792.0	833.9	821.1
80°	376.9	389.6	409.6	426.0	442.4	458.8	451.5	480.7	538.9	573.5	555.3
82.5°	240.3	254.9	313.2	327.7	335.0	345.9	333.2	335.0	360.5	382.3	360.5
85°	154.8	163.9	198.5	216.7	218.5	225.8	220.3	207.6	207.6	189.3	213.0
87.5°	71.0	72.8	89.2	105.6	109.2	98.3	96.5	92.9	74.6	71.0	76.5
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°	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7
2.5°	4396.9	4400.5	4402.4	4407.8	4409.7	4409.7	4411.5	4415.1
5°	4431.5	4437.0	4438.8	4446.1	4447.9	4446.1	4449.7	4451.5
7.5°	4493.4	4502.5	4506.1	4513.4	4508.0	4515.2	4517.1	4517.1
10°	4584.4	4593.5	4595.4	4602.6	4599.0	4602.6	4602.6	4599.0
12.5°	4704.6	4706.4	4701.0	4706.4	4699.1	4702.8	4697.3	4693.7
15°	4837.5	4832.0	4819.3	4819.3	4808.4	4810.2	4808.4	4806.6
17.5°	4966.8	4955.9	4946.7	4943.1	4934.0	4932.2	4926.7	4926.7
20°	5108.8	5103.3	5097.9	5090.6	5081.5	5072.4	5070.6	5074.2
22.5°	5279.9	5278.1	5278.1	5274.5	5261.7	5252.6	5247.2	5247.2
25°	5509.3	5492.9	5492.9	5491.1	5485.7	5480.2	5469.3	5474.7
27.5°	5767.9	5758.8	5766.0	5764.2	5758.8	5758.8	5751.5	5751.5
30°	6086.5	6082.8	6093.8	6084.7	6066.5	6064.6	6057.4	6048.2
32.5°	6454.3	6450.6	6467.0	6456.1	6426.9	6410.6	6396.0	6388.7
35°	6863.9	6865.7	6885.8	6878.5	6845.7	6834.8	6809.3	6805.6
37.5°	7311.8	7340.9	7375.5	7382.8	7355.5	7348.2	7320.9	7306.3
40°	7838.0	7876.2	7929.0	7941.7	7912.6	7907.1	7868.9	7848.9
42.5°	8398.7	8464.3	8529.8	8540.7	8511.6	8482.5	8446.1	8431.5
45°	9025.0	9103.3	9188.9	9210.7	9167.0	9132.5	9085.1	9085.1
47.5°	9727.8	9826.1	9922.6	9982.7	9942.7	9906.2	9849.8	9813.4
50°	10558.0	10692.8	10818.4	10880.3	10816.6	10747.4	10649.1	10616.3
52.5°	11599.5	11745.1	11854.4	11821.6	11723.3	11626.8	11519.3	11475.7
55°	12928.5	12977.7	12977.7	12853.9	12657.3	12495.2	12325.9	12269.5
57.5°	14590.8	14401.5	14110.2	13740.6	13276.3	12872.1	12599.0	12469.7
60°	16544.4	15634.1	14605.4	13594.9	12764.7	12080.1	11674.1	11488.4
62.5°	17846.2	15464.7	13403.7	11781.5	10587.2	9762.4	9201.6	8983.2
65°	16679.1	12897.6	10137.5	8196.6	6894.9	6055.5	5500.2	5296.3
67.5°	12216.7	8081.9	5398.3	3868.9	2834.8	2261.3	2033.7	1939.0
70°	5483.8	2845.7	1744.2	1361.9	1174.3	1077.8	1036.0	1021.4
72.5°	1653.2	1196.2	1008.6	910.3	835.7	788.3	753.8	750.1
75°	997.7	830.2	737.4	679.1	631.8	593.5	575.3	569.9
77.5°	697.3	609.9	566.2	524.4	487.9	458.8	442.4	429.7
80°	489.8	447.9	427.9	404.2	380.5	353.2	329.5	318.6
82.5°	327.7	318.6	318.6	304.1	284.0	258.5	211.2	200.3
85°	211.2	209.4	213.0	207.6	193.0	165.7	136.5	129.3
87.5°	98.3	100.1	111.1	109.2	105.6	87.4	69.2	65.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)