

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: P191646

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191646  
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-08-LED-E1-5NQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39757 lumens  
Efficiency: N/A  
Efficacy: 119.0 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): 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

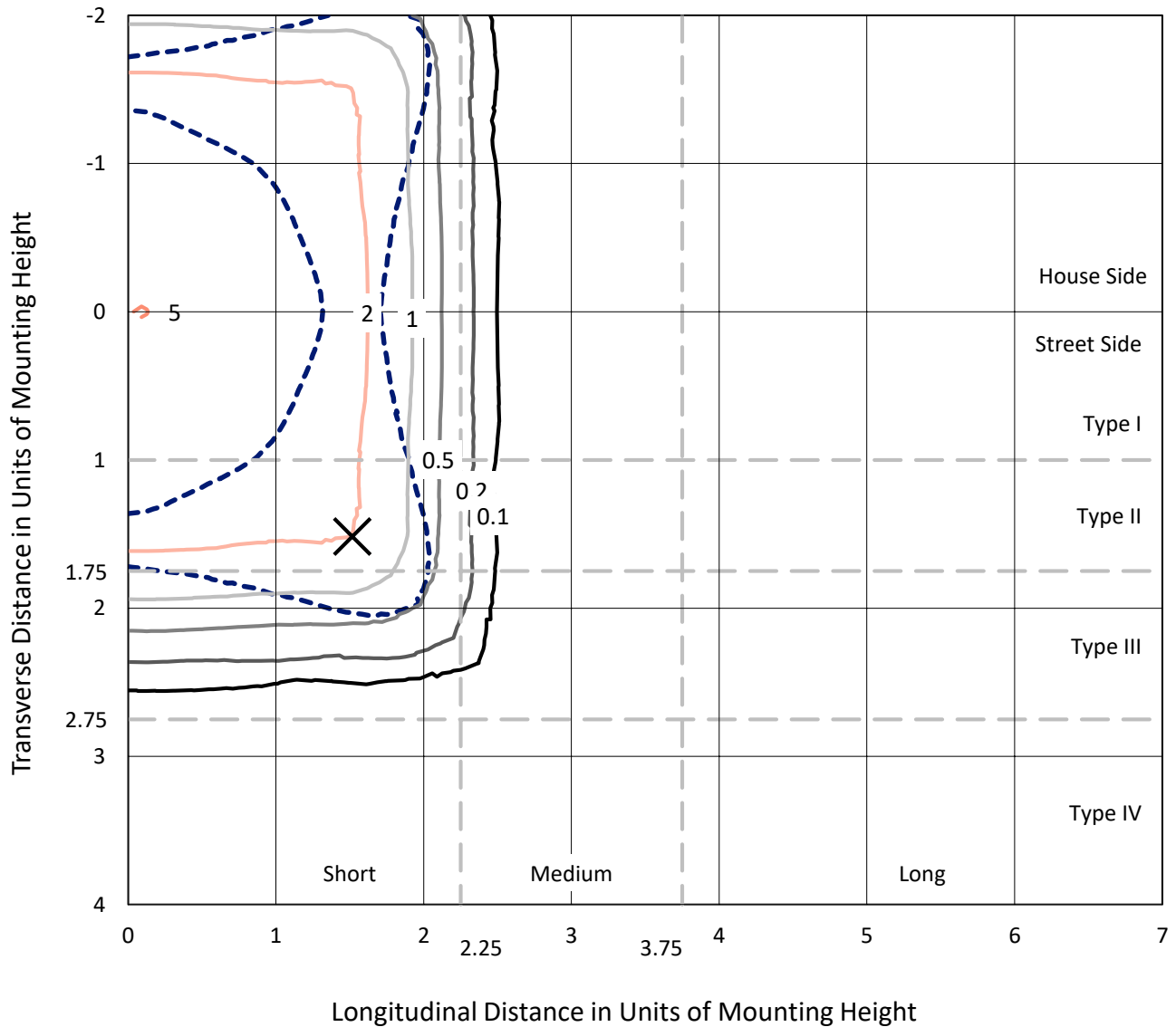


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

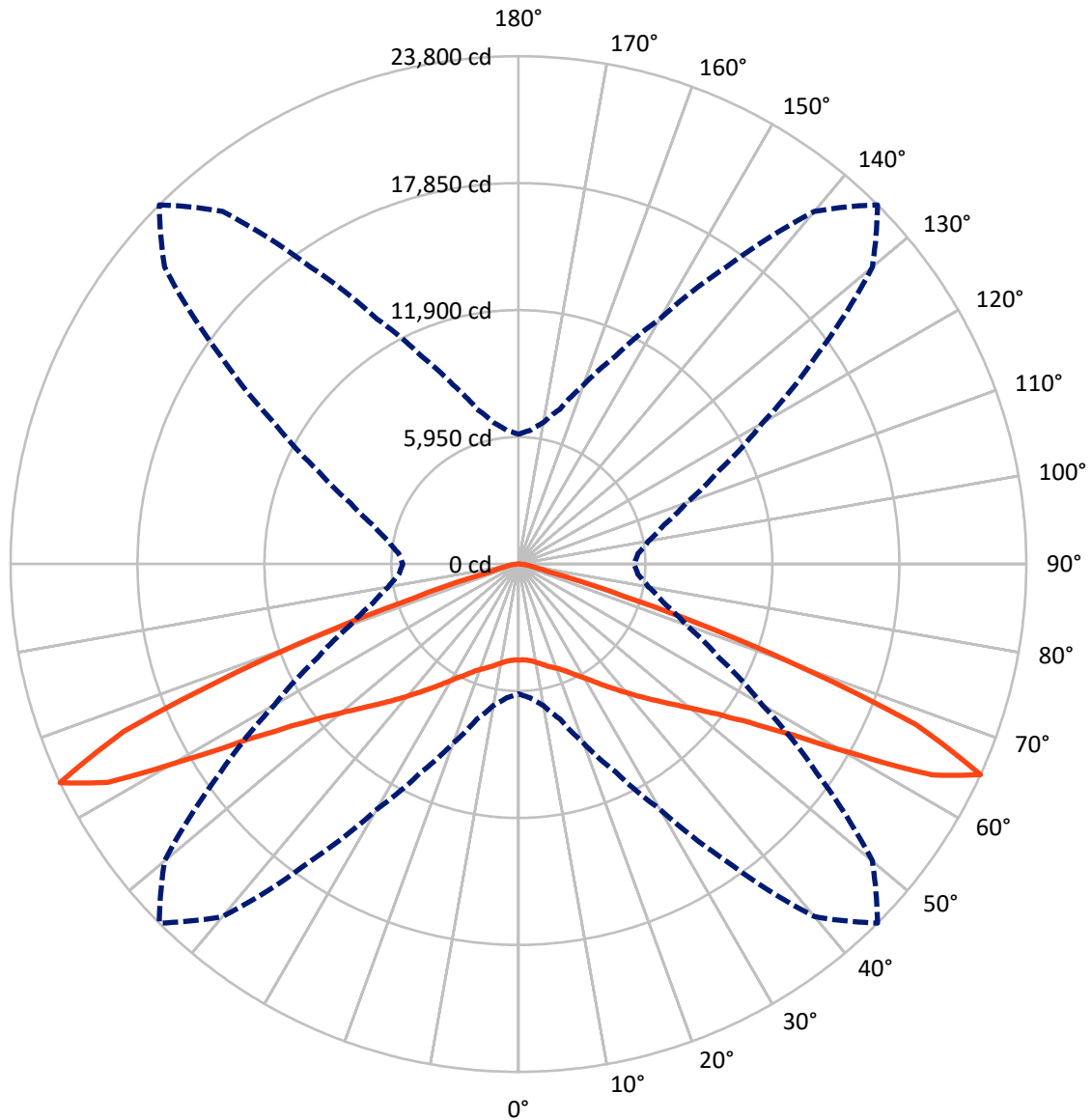


Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - Full Cutoff

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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	19878.5	0.0	19878.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19878.5	0.0	19878.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39757.0	0.0	39757.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.5	1.1
10°-20°	1406.2	3.5
20°-30°	2629.4	6.6
30°-40°	4447.0	11.2
40°-50°	7271.3	18.3
50°-60°	11562.6	29.1
60°-70°	10451.8	26.3
70°-80°	1322.7	3.3
80°-90°	227.5	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°	39757.0	100.0
0°-180°	39757.0	100.0



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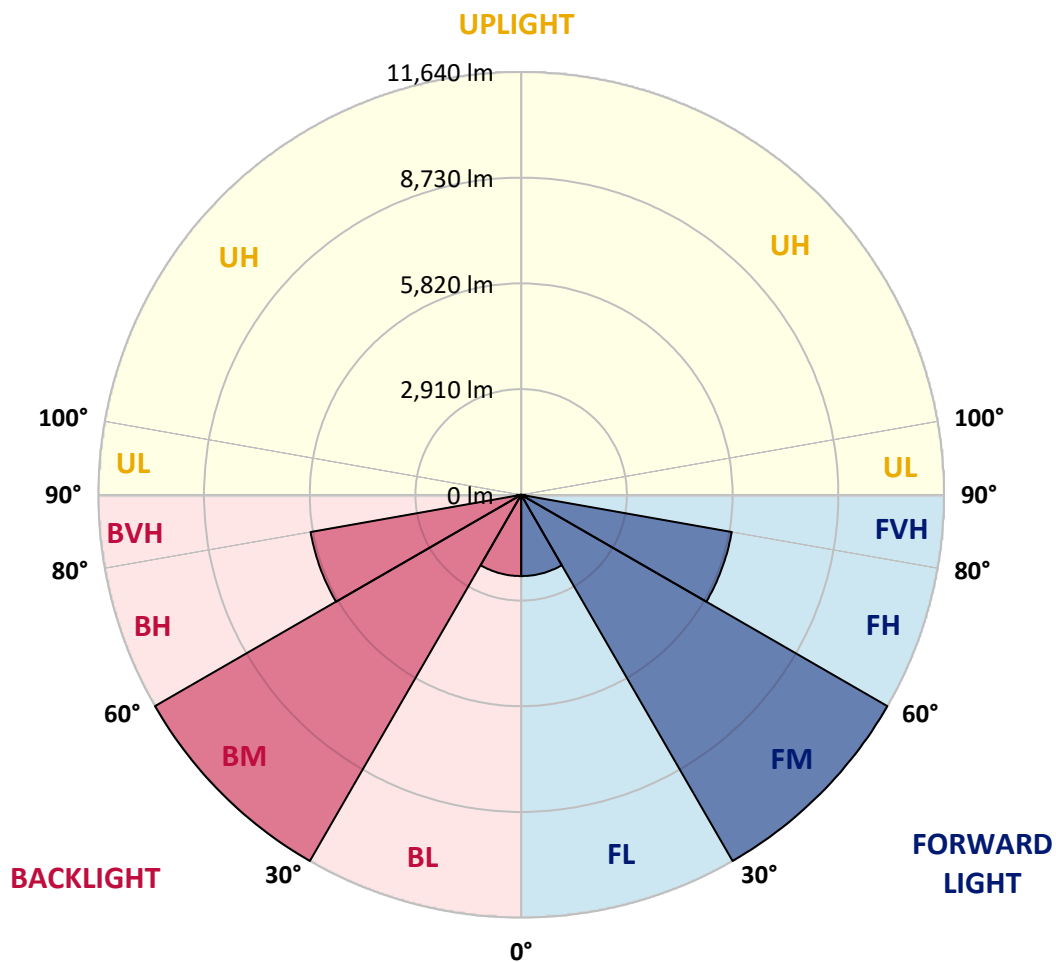
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.0	5.6			
FM (30°-60°)	11640.4	29.3			
FH (60°-80°)	5887.3	14.8			G3/7500
FVH (80°-90°)	113.8	0.3			G2/225
BL (0°-30°)	2237.0	5.6	B3/2500		
BM (30°-60°)	11640.4	29.3	B5		
BH (60°-80°)	5887.3	14.8	B5		G3/7500
BVH (80°-90°)	113.8	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°	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5
2.5°	4502.2	4506.0	4509.7	4506.0	4509.7	4504.1	4500.4	4506.0	4500.4	4494.8	4498.5
5°	4541.4	4543.2	4543.2	4537.6	4543.2	4539.5	4533.9	4541.4	4535.8	4530.2	4533.9
7.5°	4606.5	4614.0	4608.4	4602.8	4606.5	4602.8	4599.1	4600.9	4599.1	4593.5	4595.3
10°	4694.0	4699.6	4695.9	4694.0	4697.8	4695.9	4692.2	4690.3	4692.2	4686.6	4686.6
12.5°	4800.2	4798.3	4796.4	4798.3	4803.9	4803.9	4802.0	4803.9	4807.6	4809.5	4805.8
15°	4904.4	4908.2	4908.2	4908.2	4919.3	4928.6	4934.2	4938.0	4945.4	4947.3	4939.8
17.5°	5034.8	5034.8	5032.9	5034.8	5045.9	5060.8	5066.4	5073.9	5081.3	5086.9	5077.6
20°	5180.0	5183.7	5183.7	5187.5	5202.4	5219.1	5219.1	5222.8	5219.1	5222.8	5217.2
22.5°	5356.9	5368.1	5368.1	5369.9	5384.8	5405.3	5399.7	5405.3	5396.0	5403.4	5396.0
25°	5587.8	5604.5	5600.8	5600.8	5612.0	5625.0	5626.9	5638.1	5636.2	5645.5	5639.9
27.5°	5848.5	5874.5	5882.0	5880.1	5887.6	5900.6	5904.3	5917.3	5909.9	5917.3	5913.6
30°	6161.3	6172.4	6187.3	6192.9	6202.2	6215.3	6215.3	6217.1	6207.8	6219.0	6224.6
32.5°	6485.3	6505.7	6520.6	6554.1	6570.9	6580.2	6578.3	6582.1	6572.8	6587.7	6598.8
35°	6913.5	6928.4	6952.6	6978.7	7001.0	6999.2	6993.6	6995.4	6995.4	7008.5	7019.6
37.5°	7429.3	7433.0	7464.6	7501.9	7513.1	7501.9	7468.4	7460.9	7444.2	7460.9	7479.5
40°	7974.8	7987.9	8051.2	8075.4	8081.0	8060.5	8012.1	7984.1	7946.9	7967.4	7993.4
42.5°	8546.5	8572.5	8630.2	8673.1	8691.7	8678.7	8611.6	8568.8	8520.4	8531.6	8557.6
45°	9179.5	9211.2	9293.1	9334.1	9369.4	9349.0	9283.8	9218.6	9142.3	9147.9	9188.8
47.5°	9887.1	9918.7	10024.9	10093.8	10112.4	10108.6	10036.0	9946.7	9842.4	9838.7	9874.0
50°	10680.3	10711.9	10844.1	10950.3	11004.3	10998.7	10913.0	10786.4	10659.8	10661.7	10706.3
52.5°	11454.9	11494.0	11631.7	11814.2	11920.3	11996.7	11944.6	11825.4	11670.8	11674.6	11715.5
55°	12181.0	12246.2	12404.5	12652.1	12849.5	13063.6	13125.0	13121.3	13028.2	13054.3	13095.3
57.5°	12532.9	12629.8	12873.7	13264.7	13666.9	14102.6	14471.3	14746.8	14864.1	15041.0	15000.1
60°	11866.4	12020.9	12380.3	12955.6	13750.7	14659.3	15633.1	16584.6	17396.4	18009.0	17657.1
62.5°	9715.8	9916.9	10352.6	11089.9	12292.7	13746.9	15610.8	17860.0	20310.4	21788.8	20733.1
65°	6079.3	6287.9	6731.0	7520.5	8928.2	10736.1	13264.7	16992.4	21571.0	23799.7	21651.0
67.5°	2370.3	2483.9	2724.1	3228.7	4286.3	5895.0	8432.9	12663.3	18139.3	20092.5	17802.3
70°	1187.9	1199.1	1243.8	1336.9	1564.1	2031.4	3090.9	5870.8	10402.8	12564.6	10028.6
72.5°	858.4	860.2	882.6	923.5	996.2	1100.4	1301.5	1796.8	3383.2	5170.7	3170.9
75°	657.3	664.7	677.8	700.1	739.2	791.3	864.0	1035.3	1282.9	1487.7	1251.2
77.5°	506.5	521.4	530.7	551.1	575.3	610.7	631.2	696.4	810.0	852.8	839.7
80°	385.4	398.5	418.9	435.7	452.5	469.2	461.8	491.6	551.1	586.5	567.9
82.5°	245.8	260.7	320.3	335.2	342.6	353.8	340.7	342.6	368.7	391.0	368.7
85°	158.3	167.6	203.0	221.6	223.4	230.9	225.3	212.3	212.3	193.6	217.9
87.5°	72.6	74.5	91.2	108.0	111.7	100.5	98.7	95.0	76.3	72.6	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°	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5	4498.5
2.5°	4496.7	4500.4	4502.2	4507.8	4509.7	4509.7	4511.6	4515.3
5°	4532.0	4537.6	4539.5	4546.9	4548.8	4546.9	4550.7	4552.5
7.5°	4595.3	4604.7	4608.4	4615.8	4610.2	4617.7	4619.6	4619.6
10°	4688.4	4697.8	4699.6	4707.1	4703.3	4707.1	4707.1	4703.3
12.5°	4811.3	4813.2	4807.6	4813.2	4805.8	4809.5	4803.9	4800.2
15°	4947.3	4941.7	4928.6	4928.6	4917.5	4919.3	4917.5	4915.6
17.5°	5079.5	5068.3	5059.0	5055.3	5045.9	5044.1	5038.5	5038.5
20°	5224.7	5219.1	5213.5	5206.1	5196.8	5187.5	5185.6	5189.3
22.5°	5399.7	5397.9	5397.9	5394.1	5381.1	5371.8	5366.2	5366.2
25°	5634.3	5617.6	5617.6	5615.7	5610.1	5604.5	5593.4	5599.0
27.5°	5898.7	5889.4	5896.9	5895.0	5889.4	5889.4	5882.0	5882.0
30°	6224.6	6220.9	6232.0	6222.7	6204.1	6202.2	6194.8	6185.5
32.5°	6600.7	6597.0	6613.7	6602.6	6572.8	6556.0	6541.1	6533.7
35°	7019.6	7021.5	7042.0	7034.5	7001.0	6989.8	6963.8	6960.1
37.5°	7477.7	7507.5	7542.9	7550.3	7522.4	7514.9	7487.0	7472.1
40°	8015.8	8054.9	8108.9	8121.9	8092.1	8086.5	8047.4	8027.0
42.5°	8589.3	8656.3	8723.3	8734.5	8704.7	8674.9	8637.7	8622.8
45°	9229.8	9309.9	9397.4	9419.7	9375.0	9339.7	9291.2	9291.2
47.5°	9948.5	10049.1	10147.8	10209.2	10168.2	10131.0	10073.3	10036.0
50°	10797.6	10935.4	11063.8	11127.1	11062.0	10991.2	10890.7	10857.2
52.5°	11862.6	12011.6	12123.3	12089.8	11989.2	11890.6	11780.7	11736.0
55°	13221.9	13272.1	13272.1	13145.5	12944.4	12778.7	12605.6	12547.8
57.5°	14921.8	14728.2	14430.3	14052.3	13577.5	13164.1	12884.9	12752.7
60°	16919.7	15988.8	14936.7	13903.3	13054.3	12354.2	11939.0	11749.0
62.5°	18251.1	15815.6	13707.8	12048.8	10827.4	9983.9	9410.4	9187.0
65°	17057.5	13190.2	10367.5	8382.6	7051.3	6192.9	5625.0	5416.5
67.5°	12493.8	8265.3	5520.7	3956.7	2899.1	2312.6	2079.8	1983.0
70°	5608.3	2910.3	1783.8	1392.8	1201.0	1102.3	1059.5	1044.6
72.5°	1690.7	1223.3	1031.5	931.0	854.6	806.2	770.9	767.1
75°	1020.4	849.1	754.1	694.5	646.1	607.0	588.4	582.8
77.5°	713.1	623.8	579.1	536.2	499.0	469.2	452.5	439.4
80°	500.9	458.0	437.6	413.4	389.2	361.2	337.0	325.8
82.5°	335.2	325.8	325.8	310.9	290.5	264.4	216.0	204.8
85°	216.0	214.1	217.9	212.3	197.4	169.4	139.6	132.2
87.5°	100.5	102.4	113.6	111.7	108.0	89.4	70.8	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)