

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: P269368

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269368  
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-06-LED-E1-5NQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 34999.6 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

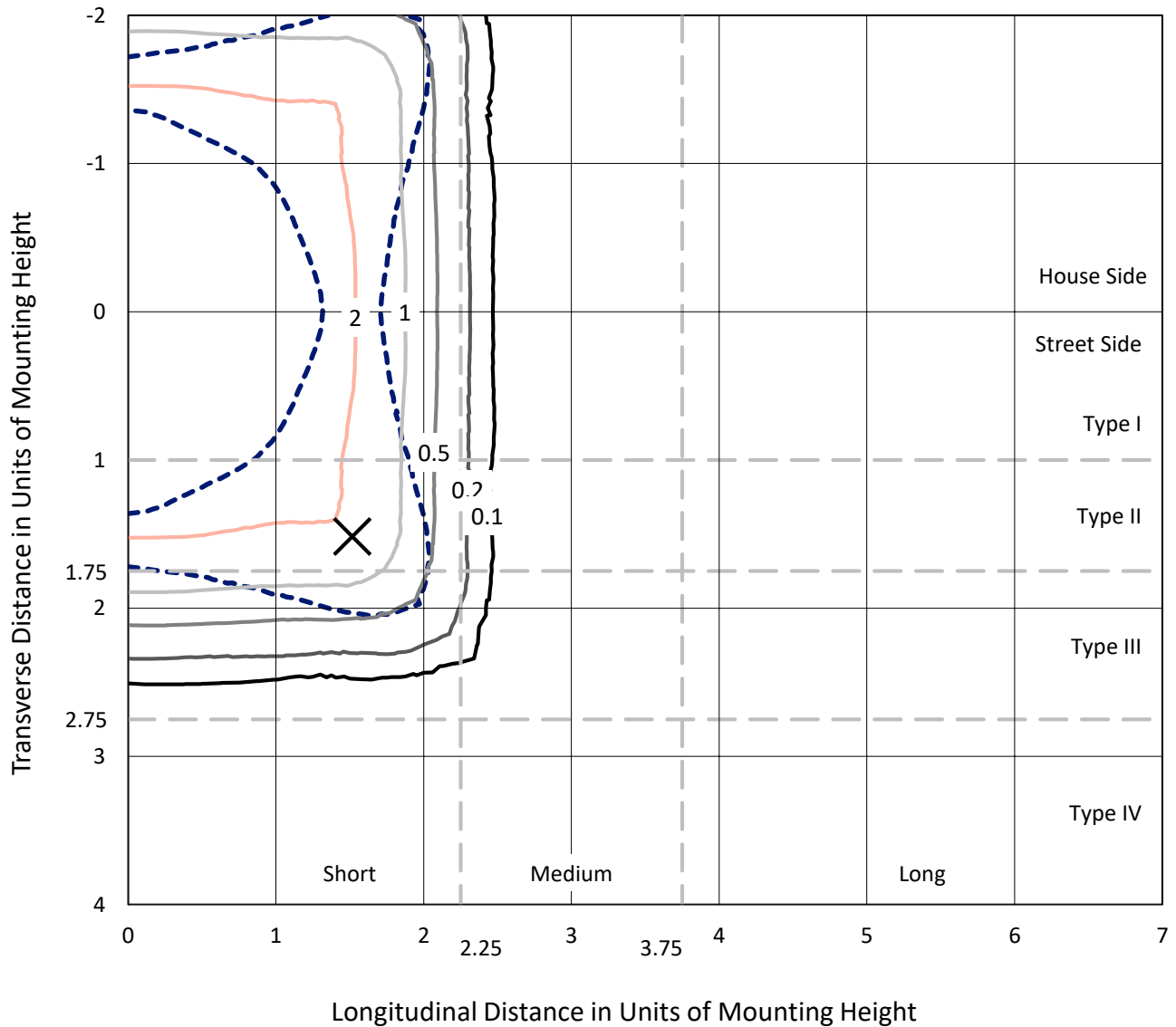


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

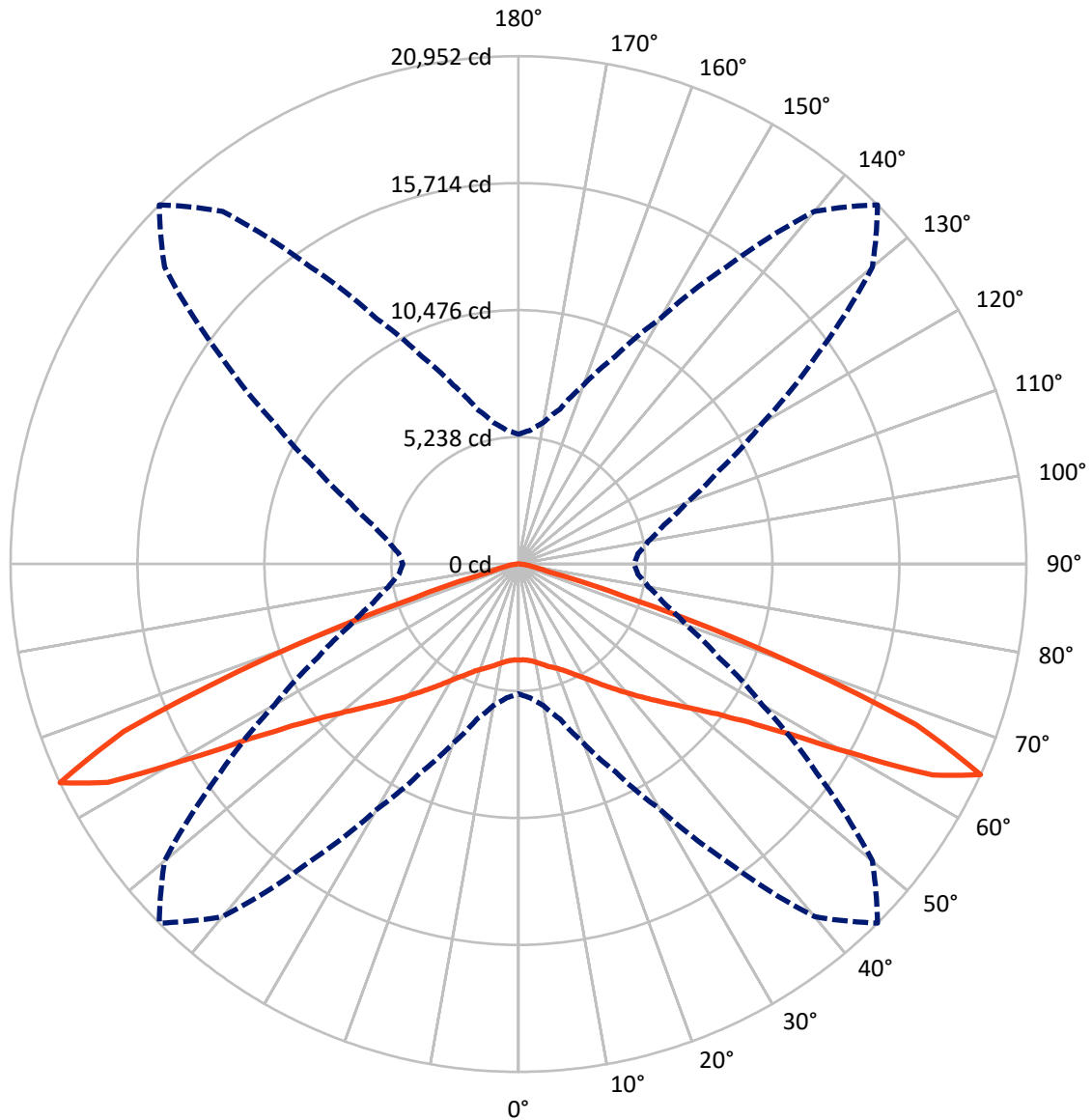


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Full Cutoff

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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	17499.8	0.0	17499.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17499.8	0.0	17499.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34999.6	0.0	34999.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.0	1.1
10°-20°	1238.0	3.5
20°-30°	2314.7	6.6
30°-40°	3914.9	11.2
40°-50°	6401.2	18.3
50°-60°	10179.0	29.1
60°-70°	9201.1	26.3
70°-80°	1164.4	3.3
80°-90°	200.3	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°	34999.6	100.0
0°-180°	34999.6	100.0



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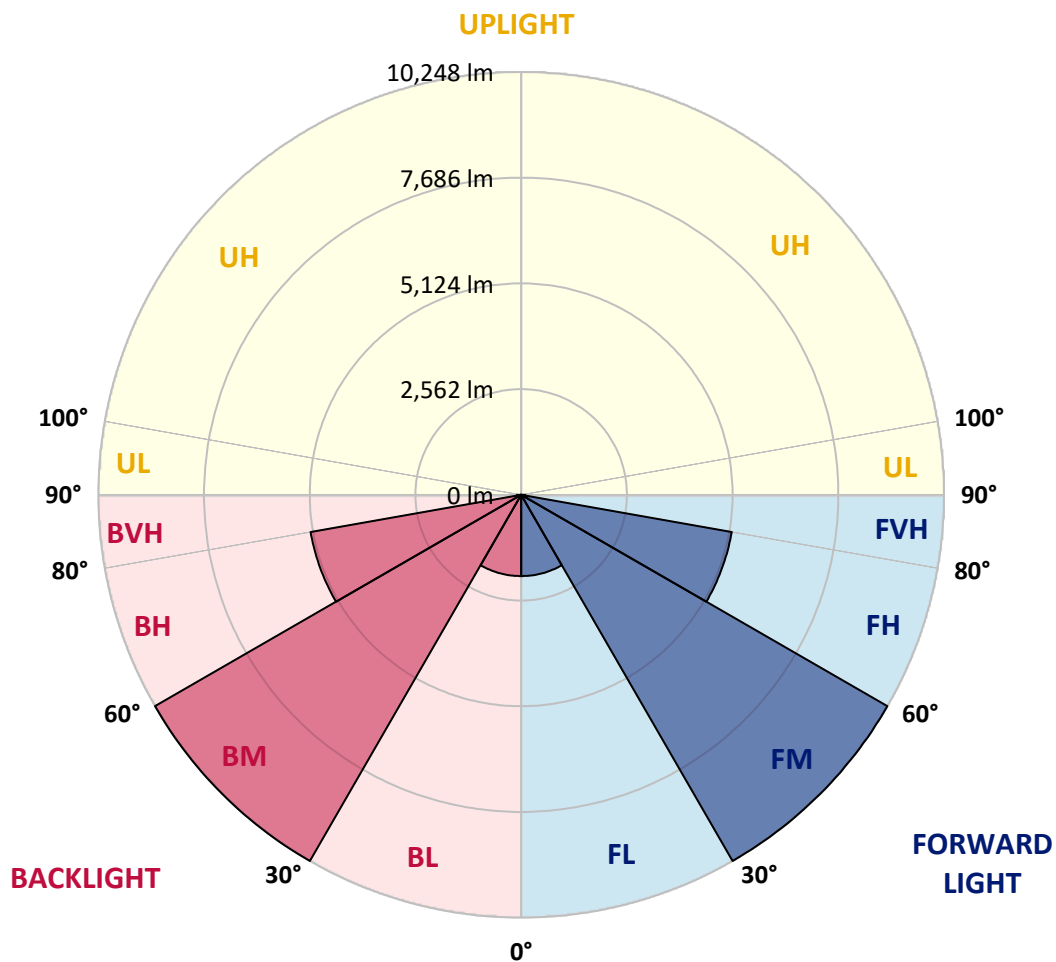
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.3	5.6			
FM	(30°-60°)	10247.5	29.3			
FH	(60°-80°)	5182.8	14.8			G3/7500
FVH	(80°-90°)	100.2	0.3			G2/225
BL	(0°-30°)	1969.3	5.6	B3/2500		
BM	(30°-60°)	10247.5	29.3	B5		
BH	(60°-80°)	5182.8	14.8	B5		G3/7500
BVH	(80°-90°)	100.2	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°	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2
2.5°	3963.5	3966.7	3970.1	3966.7	3970.1	3965.2	3961.9	3966.7	3961.9	3956.9	3960.2
5°	3997.9	3999.6	3999.6	3994.7	3999.6	3996.3	3991.3	3997.9	3993.1	3988.0	3991.3
7.5°	4055.3	4061.9	4056.9	4052.1	4055.3	4052.1	4048.8	4050.4	4048.8	4043.8	4045.4
10°	4132.4	4137.2	4134.0	4132.4	4135.5	4134.0	4130.6	4129.1	4130.6	4125.7	4125.7
12.5°	4225.7	4224.1	4222.6	4224.1	4229.0	4229.0	4227.5	4229.0	4232.4	4234.0	4230.7
15°	4317.6	4320.8	4320.8	4320.8	4330.6	4338.9	4343.8	4347.1	4353.6	4355.3	4348.8
17.5°	4432.2	4432.2	4430.7	4432.2	4442.2	4455.2	4460.2	4466.7	4473.3	4478.2	4470.0
20°	4560.2	4563.4	4563.4	4566.8	4579.7	4594.7	4594.7	4597.9	4594.7	4597.9	4592.9
22.5°	4715.9	4725.8	4725.8	4727.4	4740.4	4758.5	4753.7	4758.5	4750.2	4756.9	4750.2
25°	4919.2	4933.9	4930.5	4930.5	4940.5	4951.9	4953.6	4963.3	4961.8	4970.0	4965.0
27.5°	5148.6	5171.5	5178.1	5176.6	5183.0	5194.4	5197.9	5209.4	5202.8	5209.4	5205.9
30°	5424.0	5433.8	5447.0	5451.9	5460.1	5471.5	5471.5	5473.2	5465.0	5474.8	5479.8
32.5°	5709.2	5727.2	5740.3	5769.9	5784.6	5792.8	5791.2	5794.4	5786.3	5799.4	5809.2
35°	6086.2	6099.3	6120.6	6143.6	6163.4	6161.7	6156.8	6158.3	6158.3	6169.7	6179.7
37.5°	6540.3	6543.6	6571.5	6604.2	6614.0	6604.2	6574.6	6568.1	6553.3	6568.1	6584.5
40°	7020.6	7032.0	7087.7	7109.0	7113.9	7095.9	7053.3	7028.8	6996.0	7014.0	7037.0
42.5°	7523.8	7546.8	7597.5	7635.2	7651.7	7640.2	7581.2	7543.4	7500.8	7510.6	7533.6
45°	8081.2	8109.0	8181.0	8217.2	8248.2	8230.2	8172.9	8115.5	8048.4	8053.2	8089.2
47.5°	8703.9	8731.9	8825.3	8885.9	8902.4	8899.0	8835.1	8756.4	8664.6	8661.4	8692.4
50°	9402.3	9430.1	9546.5	9639.9	9687.5	9682.6	9607.2	9495.8	9384.2	9385.9	9425.1
52.5°	10084.2	10118.6	10239.9	10400.4	10493.9	10561.2	10515.3	10410.4	10274.4	10277.6	10313.6
55°	10723.4	10780.7	10920.2	11138.2	11311.8	11500.5	11554.4	11551.2	11469.3	11492.1	11528.3
57.5°	11033.3	11118.5	11333.1	11677.4	12031.4	12415.0	12739.7	12982.1	13085.5	13241.1	13205.2
60°	10446.4	10582.5	10898.9	11405.3	12105.2	12905.2	13762.5	14600.1	15314.8	15854.0	15544.2
62.5°	8553.2	8730.2	9113.8	9762.9	10821.8	12102.0	13742.8	15722.9	17880.0	19181.5	18252.1
65°	5351.9	5535.4	5925.6	6620.6	7859.8	9451.4	11677.4	14959.0	18989.7	20951.8	19060.2
67.5°	2086.7	2186.7	2398.0	2842.2	3773.4	5189.6	7423.9	11148.0	15968.8	17688.3	15672.1
70°	1045.7	1055.6	1094.9	1176.9	1376.9	1788.3	2721.1	5168.3	9158.0	11061.1	8828.5
72.5°	755.7	757.4	776.9	813.1	876.9	968.7	1145.8	1581.7	2978.4	4552.0	2791.6
75°	578.6	585.2	596.7	616.3	650.7	696.6	760.5	911.4	1129.3	1309.6	1101.5
77.5°	445.9	458.9	467.2	485.2	506.6	537.6	555.7	613.1	713.1	750.8	739.2
80°	339.3	350.8	368.8	383.5	398.3	413.1	406.6	432.8	485.2	516.3	499.9
82.5°	216.4	229.4	282.0	295.1	301.7	311.4	299.9	301.7	324.6	344.2	324.6
85°	139.3	147.5	178.7	195.0	196.6	203.2	198.3	186.8	186.8	170.5	191.8
87.5°	63.9	65.5	80.3	95.1	98.4	88.6	86.9	83.6	67.3	63.9	68.8
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°	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2	3960.2
2.5°	3958.7	3961.9	3963.5	3968.4	3970.1	3970.1	3971.6	3975.0
5°	3989.7	3994.7	3996.3	4002.8	4004.5	4002.8	4006.1	4007.8
7.5°	4045.4	4053.6	4056.9	4063.6	4058.6	4065.1	4066.7	4066.7
10°	4127.4	4135.5	4137.2	4143.8	4140.6	4143.8	4143.8	4140.6
12.5°	4235.6	4237.2	4232.4	4237.2	4230.7	4234.0	4229.0	4225.7
15°	4355.3	4350.3	4338.9	4338.9	4329.0	4330.6	4329.0	4327.3
17.5°	4471.7	4461.8	4453.5	4450.4	4442.2	4440.5	4435.7	4435.7
20°	4599.5	4594.7	4589.7	4583.2	4574.9	4566.8	4565.0	4568.4
22.5°	4753.7	4751.9	4751.9	4748.7	4737.2	4728.9	4724.0	4724.0
25°	4960.1	4945.3	4945.3	4943.7	4938.8	4933.9	4924.1	4929.0
27.5°	5192.9	5184.7	5191.2	5189.6	5184.7	5184.7	5178.1	5178.1
30°	5479.8	5476.4	5486.3	5478.1	5461.8	5460.1	5453.5	5445.3
32.5°	5810.9	5807.5	5822.4	5812.6	5786.3	5771.5	5758.3	5751.8
35°	6179.7	6181.2	6199.4	6192.7	6163.4	6153.4	6130.6	6127.2
37.5°	6582.9	6609.1	6640.4	6646.7	6622.2	6615.7	6591.0	6578.0
40°	7056.6	7091.0	7138.7	7150.1	7123.7	7118.9	7084.5	7066.4
42.5°	7561.5	7620.5	7679.5	7689.3	7663.1	7636.9	7604.2	7590.9
45°	8125.3	8195.9	8272.9	8292.6	8253.2	8222.0	8179.4	8179.4
47.5°	8758.0	8846.6	8933.5	8987.5	8951.5	8918.7	8867.9	8835.1
50°	9505.5	9626.9	9740.0	9795.7	9738.3	9676.1	9587.5	9558.0
52.5°	10443.2	10574.3	10672.7	10643.1	10554.5	10467.7	10371.0	10331.6
55°	11639.7	11684.0	11684.0	11572.5	11395.4	11249.7	11097.1	11046.4
57.5°	13136.3	12965.7	12703.6	12370.7	11952.8	11588.9	11343.1	11226.7
60°	14895.1	14075.5	13149.4	12239.6	11492.1	10875.9	10510.3	10343.2
62.5°	16067.2	13923.1	12067.6	10607.0	9531.7	8789.1	8284.3	8087.6
65°	15016.3	11611.9	9126.9	7379.5	6207.5	5451.9	4951.9	4768.4
67.5°	10998.8	7276.2	4860.1	3483.3	2552.2	2035.9	1830.9	1745.8
70°	4937.2	2562.1	1570.3	1226.0	1057.2	970.3	932.7	919.5
72.5°	1488.3	1077.0	908.0	819.6	752.4	709.8	678.6	675.3
75°	898.2	747.5	663.8	611.3	568.7	534.4	518.0	513.0
77.5°	627.7	549.1	509.8	472.1	439.4	413.1	398.3	386.8
80°	441.0	403.2	385.3	364.0	342.6	318.0	296.7	286.9
82.5°	295.1	286.9	286.9	273.8	255.7	232.8	190.1	180.3
85°	190.1	188.6	191.8	186.8	173.7	149.2	123.0	116.4
87.5°	88.6	90.2	100.0	98.4	95.1	78.7	62.3	59.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)