

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: P269607

Luminaire Tested: **GLEON-AF-09-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269607  
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-09-LED-E1-5NQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 38531 lumens  
Efficiency: N/A  
Efficacy: 103.0 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 - G3

Input Watts (W): 374  
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

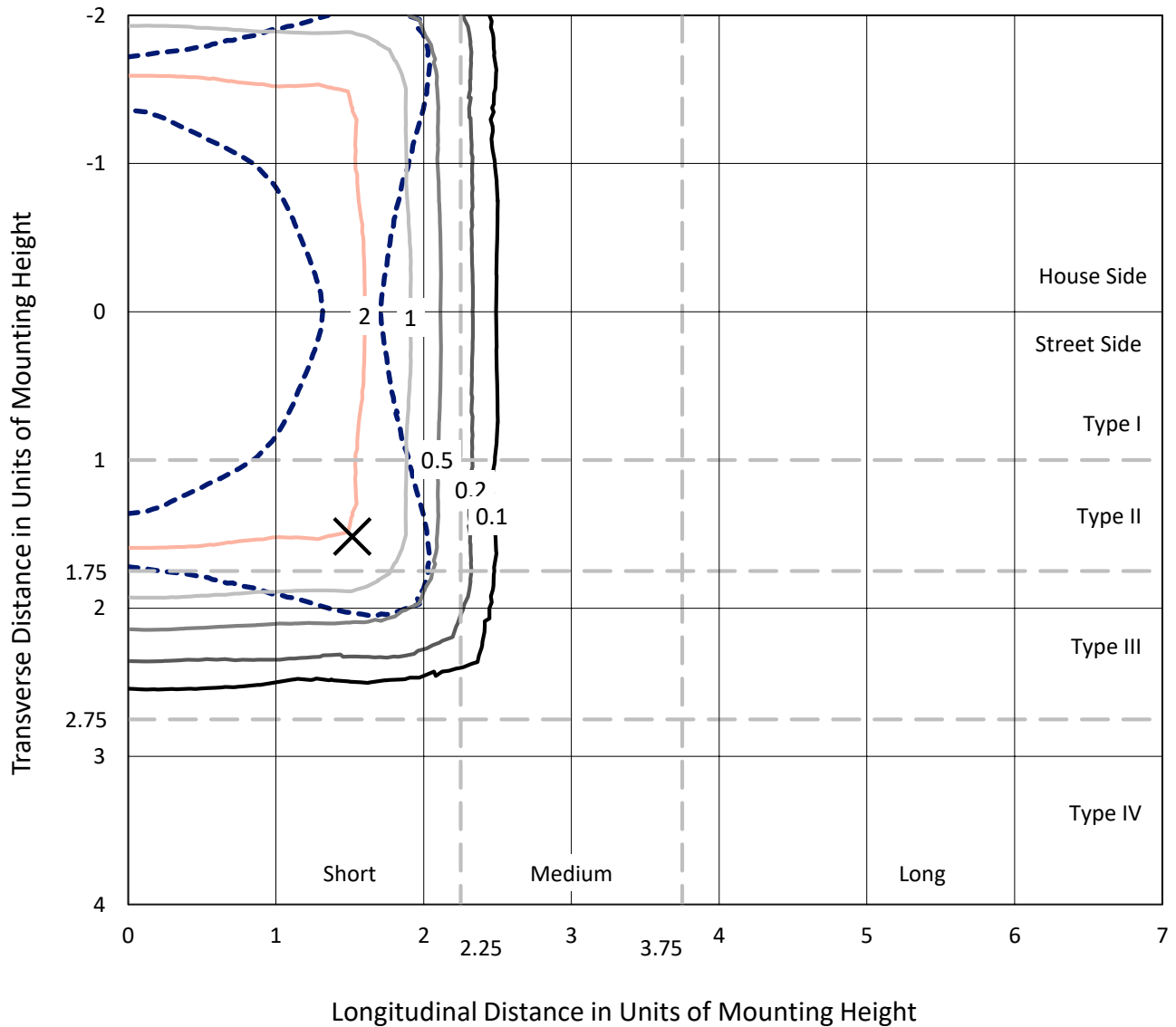


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

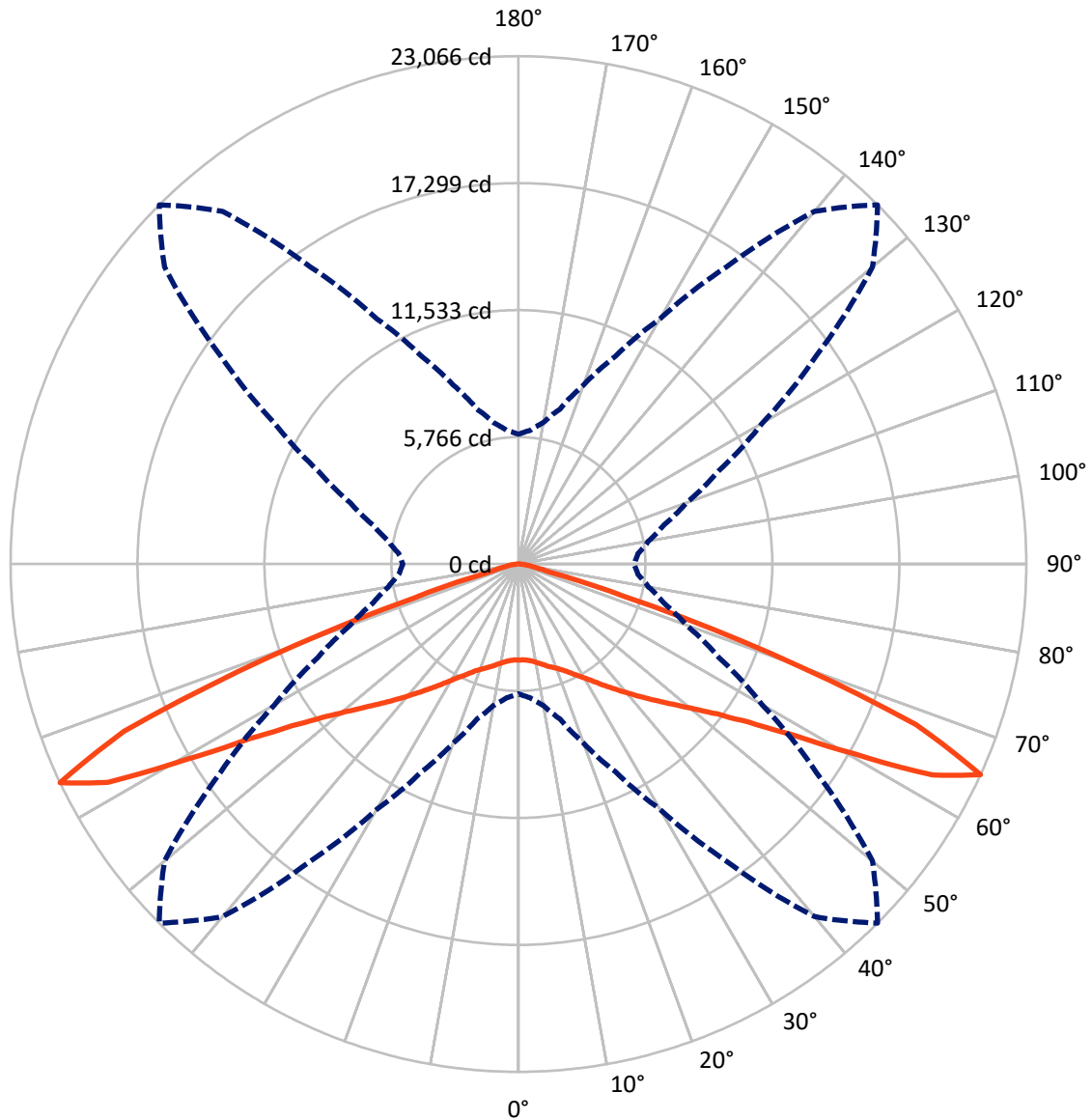


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Full Cutoff

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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	19265.5	0.0	19265.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19265.5	0.0	19265.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38531.0	0.0	38531.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.9	1.1
10°-20°	1362.9	3.5
20°-30°	2548.3	6.6
30°-40°	4309.9	11.2
40°-50°	7047.1	18.3
50°-60°	11206.0	29.1
60°-70°	10129.5	26.3
70°-80°	1281.9	3.3
80°-90°	220.5	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°	38531.0	100.0
0°-180°	38531.0	100.0



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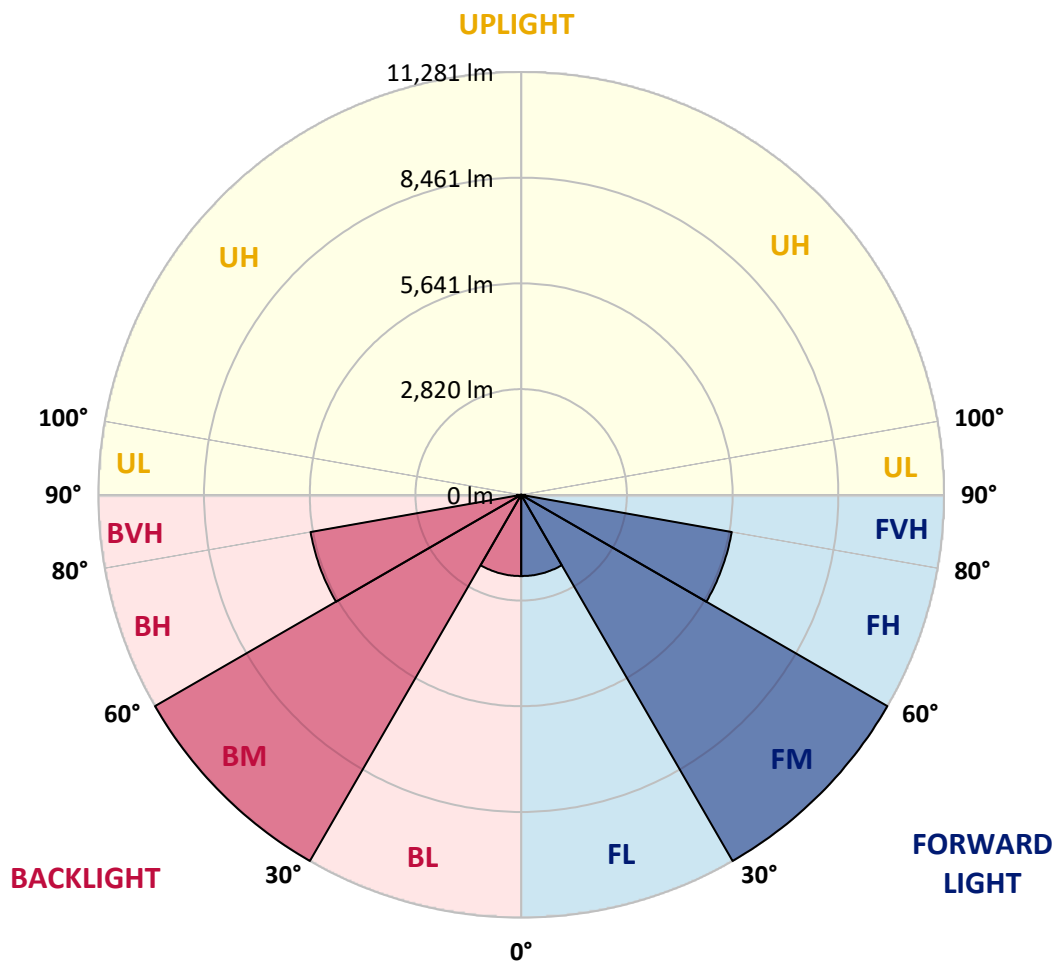
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.0	5.6			
FM (30°-60°)	11281.5	29.3			
FH (60°-80°)	5705.7	14.8			G3/7500
FVH (80°-90°)	110.3	0.3			G2/225
BL (0°-30°)	2168.0	5.6	B3/2500		
BM (30°-60°)	11281.5	29.3	B5		
BH (60°-80°)	5705.7	14.8	B5		G3/7500
BVH (80°-90°)	110.3	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°	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8
2.5°	4363.3	4367.0	4370.7	4367.0	4370.7	4365.3	4361.6	4367.0	4361.6	4356.2	4359.8
5°	4401.3	4403.1	4403.1	4397.7	4403.1	4399.4	4394.1	4401.3	4395.9	4390.5	4394.1
7.5°	4464.4	4471.8	4466.3	4460.9	4464.4	4460.9	4457.2	4459.0	4457.2	4451.8	4453.6
10°	4549.2	4554.6	4551.2	4549.2	4552.9	4551.2	4547.5	4545.7	4547.5	4542.1	4542.1
12.5°	4652.1	4650.3	4648.5	4650.3	4655.7	4655.7	4653.9	4655.7	4659.4	4661.1	4657.5
15°	4753.2	4756.9	4756.9	4756.9	4767.7	4776.6	4782.0	4785.7	4792.8	4794.8	4787.4
17.5°	4879.6	4879.6	4877.6	4879.6	4890.4	4904.7	4910.1	4917.4	4924.6	4930.1	4921.1
20°	5020.3	5024.0	5024.0	5027.5	5041.9	5058.1	5058.1	5061.8	5058.1	5061.8	5056.4
22.5°	5191.8	5202.5	5202.5	5204.3	5218.8	5238.6	5233.2	5238.6	5229.7	5236.8	5229.7
25°	5415.4	5431.7	5428.1	5428.1	5438.9	5451.5	5453.4	5464.2	5462.4	5471.3	5465.9
27.5°	5668.1	5693.4	5700.6	5698.8	5706.0	5718.6	5722.3	5734.9	5727.7	5734.9	5731.2
30°	5971.3	5982.2	5996.5	6001.9	6011.0	6023.7	6023.7	6025.4	6016.4	6027.2	6032.6
32.5°	6285.4	6305.2	6319.5	6352.1	6368.3	6377.2	6375.5	6379.1	6370.2	6384.6	6395.4
35°	6700.3	6714.7	6738.1	6763.5	6785.1	6783.3	6777.9	6779.7	6779.7	6792.4	6803.1
37.5°	7200.2	7203.8	7234.5	7270.5	7281.4	7270.5	7238.1	7230.8	7214.6	7230.8	7249.0
40°	7728.8	7741.6	7802.9	7826.4	7831.8	7811.9	7764.9	7737.9	7701.9	7721.7	7747.0
42.5°	8282.9	8308.2	8364.1	8405.6	8423.6	8411.0	8346.1	8304.6	8257.6	8268.4	8293.7
45°	8896.5	8927.1	9006.5	9046.2	9080.4	9060.7	8997.6	8934.4	8860.3	8865.8	8905.4
47.5°	9582.2	9612.9	9715.7	9782.5	9800.6	9796.9	9726.6	9639.9	9538.9	9535.2	9569.6
50°	10350.9	10381.6	10509.7	10612.5	10664.9	10659.5	10576.5	10453.8	10331.0	10332.8	10376.2
52.5°	11101.7	11139.5	11273.1	11449.8	11552.7	11626.8	11576.2	11460.8	11311.0	11314.5	11354.2
55°	11805.3	11868.5	12021.9	12262.0	12453.3	12660.7	12720.3	12716.6	12626.4	12651.6	12691.4
57.5°	12146.4	12240.2	12476.6	12855.6	13245.4	13667.7	14025.0	14292.0	14405.8	14577.2	14537.5
60°	11500.5	11650.2	11998.5	12556.1	13326.6	14207.2	15151.1	16073.2	16860.0	17453.7	17112.6
62.5°	9416.2	9611.1	10033.3	10748.0	11913.7	13323.0	15129.3	17309.4	19684.1	21116.8	20093.6
65°	5891.9	6094.0	6523.4	7288.6	8652.8	10405.1	12855.6	16468.4	20905.7	23065.8	20983.4
67.5°	2297.1	2407.3	2640.1	3129.1	4154.1	5713.2	8172.8	12272.7	17580.0	19473.0	17253.3
70°	1151.3	1162.1	1205.4	1295.6	1515.8	1968.7	2995.6	5689.8	10082.0	12177.2	9719.3
72.5°	831.9	833.6	855.4	895.0	965.5	1066.5	1261.4	1741.5	3278.9	5011.3	3073.1
75°	637.0	644.3	656.9	678.5	716.4	767.0	837.3	1003.3	1243.3	1441.8	1212.6
77.5°	490.8	505.2	514.3	534.1	557.6	592.0	611.7	674.8	784.9	826.5	813.9
80°	373.5	386.2	406.0	422.3	438.6	454.7	447.5	476.5	534.1	568.4	550.4
82.5°	238.2	252.7	310.4	324.7	332.1	342.9	330.2	332.1	357.3	378.9	357.3
85°	153.4	162.5	196.6	214.8	216.5	223.8	218.4	205.7	205.7	187.7	211.1
87.5°	70.3	72.1	88.5	104.7	108.2	97.5	95.6	92.0	74.0	70.3	75.7
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°	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8	4359.8
2.5°	4357.9	4361.6	4363.3	4368.8	4370.7	4370.7	4372.4	4376.1
5°	4392.4	4397.7	4399.4	4406.7	4408.5	4406.7	4410.3	4412.1
7.5°	4453.6	4462.7	4466.3	4473.5	4468.1	4475.3	4477.2	4477.2
10°	4543.8	4552.9	4554.6	4562.0	4558.3	4562.0	4562.0	4558.3
12.5°	4662.9	4664.8	4659.4	4664.8	4657.5	4661.1	4655.7	4652.1
15°	4794.8	4789.4	4776.6	4776.6	4765.8	4767.7	4765.8	4764.0
17.5°	4922.8	4912.0	4902.9	4899.4	4890.4	4888.5	4883.1	4883.1
20°	5063.6	5058.1	5052.7	5045.5	5036.4	5027.5	5025.7	5029.3
22.5°	5233.2	5231.4	5231.4	5227.7	5215.2	5206.1	5200.7	5200.7
25°	5460.5	5444.4	5444.4	5442.6	5437.1	5431.7	5420.9	5426.3
27.5°	5716.9	5707.8	5715.0	5713.2	5707.8	5707.8	5700.6	5700.6
30°	6032.6	6029.1	6039.8	6030.9	6012.7	6011.0	6003.7	5994.7
32.5°	6397.1	6393.5	6409.8	6398.9	6370.2	6353.8	6339.3	6332.2
35°	6803.1	6805.0	6824.9	6817.5	6785.1	6774.3	6749.1	6745.5
37.5°	7247.0	7275.9	7310.2	7317.5	7290.5	7283.2	7256.1	7241.6
40°	7768.6	7806.5	7858.8	7871.5	7842.7	7837.3	7799.3	7779.4
42.5°	8324.5	8389.5	8454.4	8465.2	8436.3	8407.3	8371.3	8356.9
45°	8945.2	9022.8	9107.6	9129.3	9085.9	9051.6	9004.7	9004.7
47.5°	9641.8	9739.2	9834.9	9894.4	9854.6	9818.6	9762.6	9726.6
50°	10464.6	10598.2	10722.7	10784.1	10720.8	10652.3	10554.8	10522.3
52.5°	11496.8	11641.1	11749.4	11717.0	11619.5	11523.8	11417.4	11374.1
55°	12814.1	12862.9	12862.9	12740.1	12545.3	12384.7	12216.8	12160.9
57.5°	14461.8	14274.0	13985.4	13618.9	13158.8	12758.2	12487.5	12359.4
60°	16398.0	15495.8	14476.1	13474.5	12651.6	11973.1	11570.8	11386.7
62.5°	17688.3	15327.9	13285.2	11677.2	10493.6	9676.1	9120.2	8903.7
65°	16531.5	12783.5	10047.7	8124.1	6833.9	6001.9	5451.5	5249.4
67.5°	12108.6	8010.5	5350.6	3834.7	2809.7	2241.2	2015.6	1921.8
70°	5435.4	2820.5	1728.8	1349.9	1163.9	1068.4	1026.9	1012.4
72.5°	1638.6	1185.7	999.8	902.3	828.2	781.3	747.1	743.4
75°	988.9	822.8	730.9	673.1	626.2	588.3	570.2	564.9
77.5°	691.2	604.5	561.3	519.7	483.6	454.7	438.6	425.8
80°	485.4	443.9	424.1	400.6	377.2	350.1	326.7	315.8
82.5°	324.7	315.8	315.8	301.3	281.4	256.2	209.3	198.4
85°	209.3	207.5	211.1	205.7	191.2	164.2	135.4	128.1
87.5°	97.5	99.3	110.1	108.2	104.7	86.6	68.6	64.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)