

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: P190808

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190808  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 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: 51153.7 lumens  
Efficiency: N/A  
Efficacy: 122.1 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 - G5

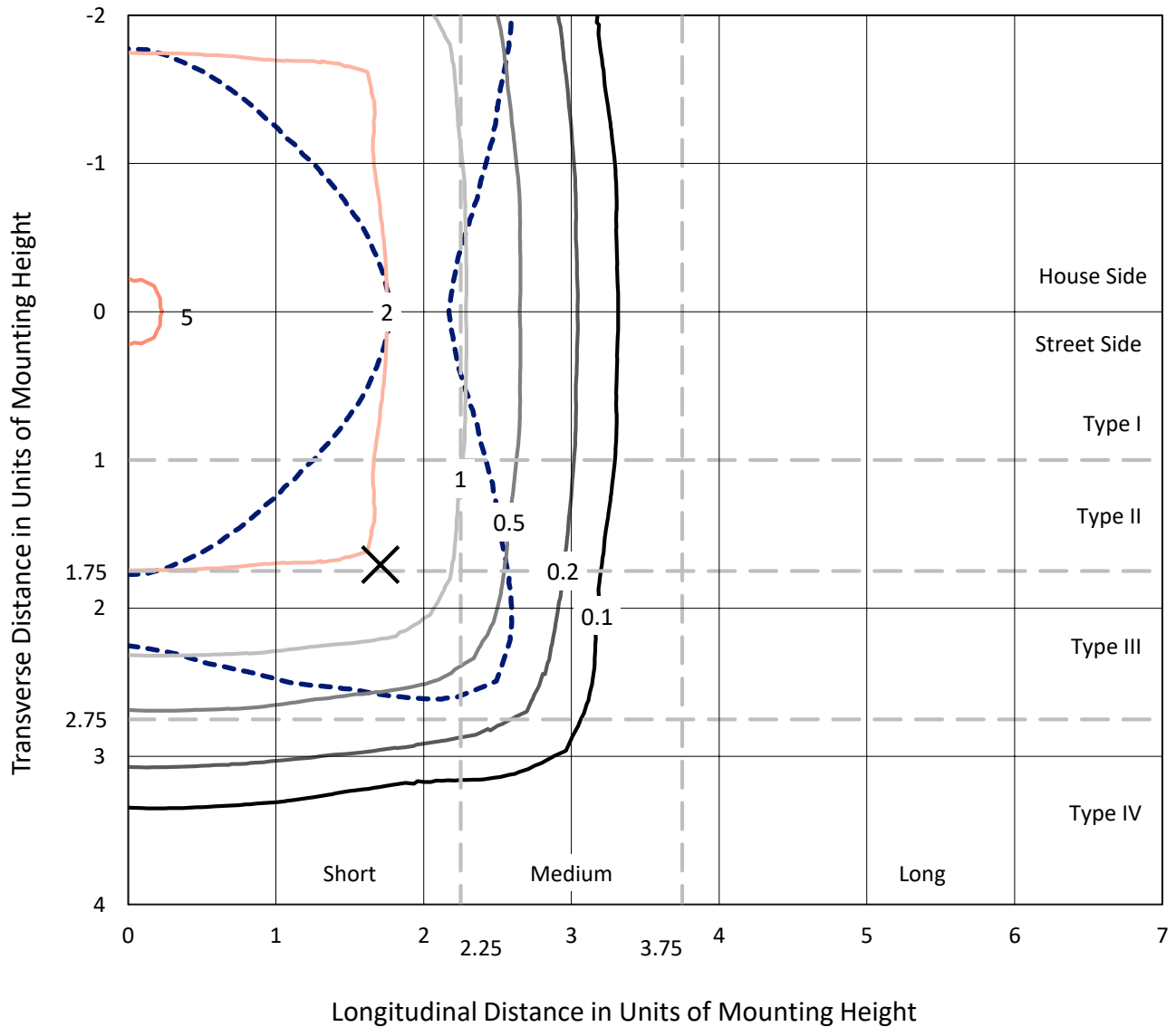
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

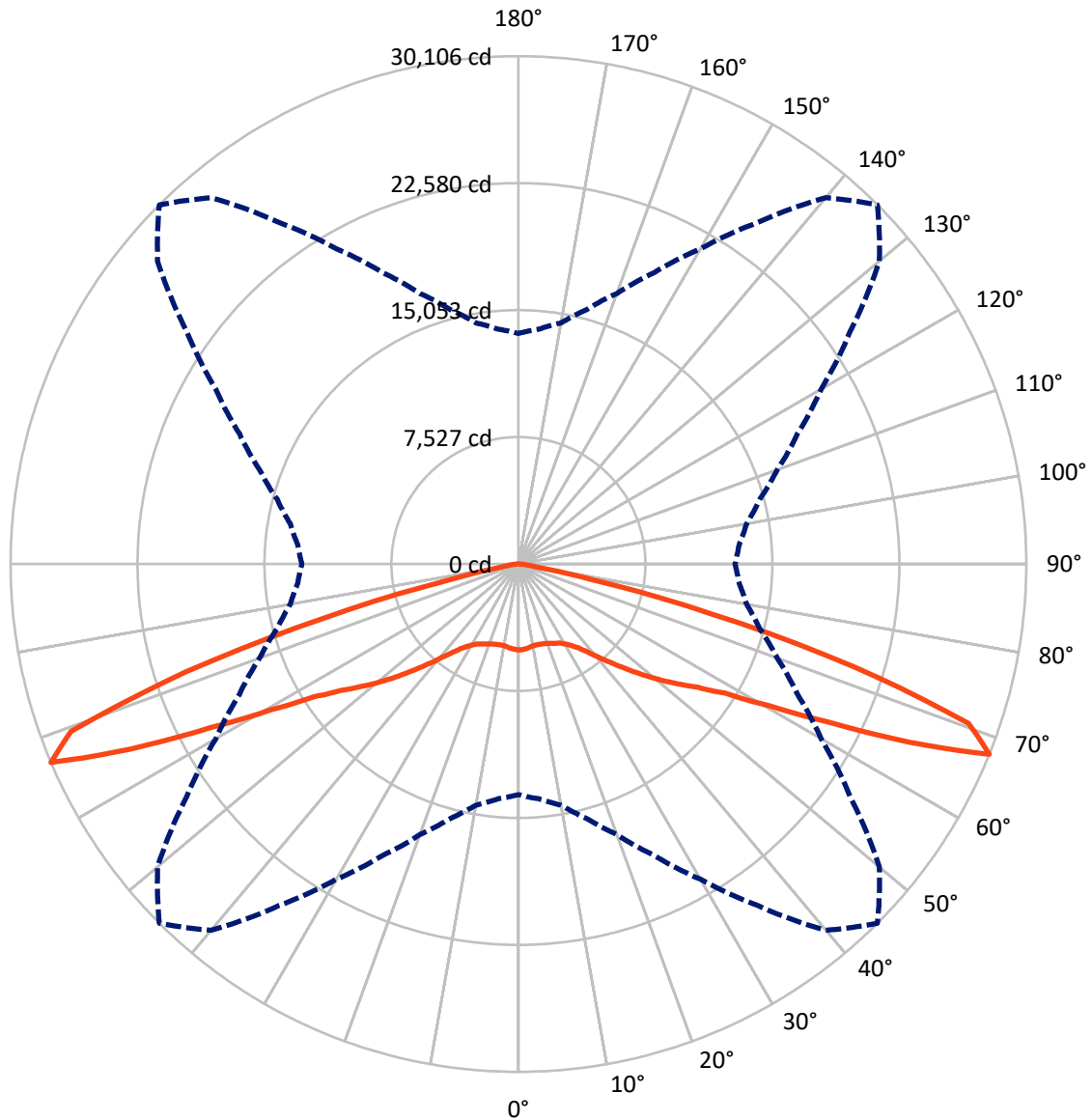
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	25576.8	0.0	25576.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25576.8	0.0	25576.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51153.7	0.0	51153.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.1	0.9
10°-20°	1384.5	2.7
20°-30°	2353.6	4.6
30°-40°	3847.5	7.5
40°-50°	6868.5	13.4
50°-60°	11580.4	22.6
60°-70°	17971.0	35.1
70°-80°	6314.2	12.3
80°-90°	356.8	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°	51153.7	100.0
0°-180°	51153.7	100.0



REPORT NUMBER: P190808

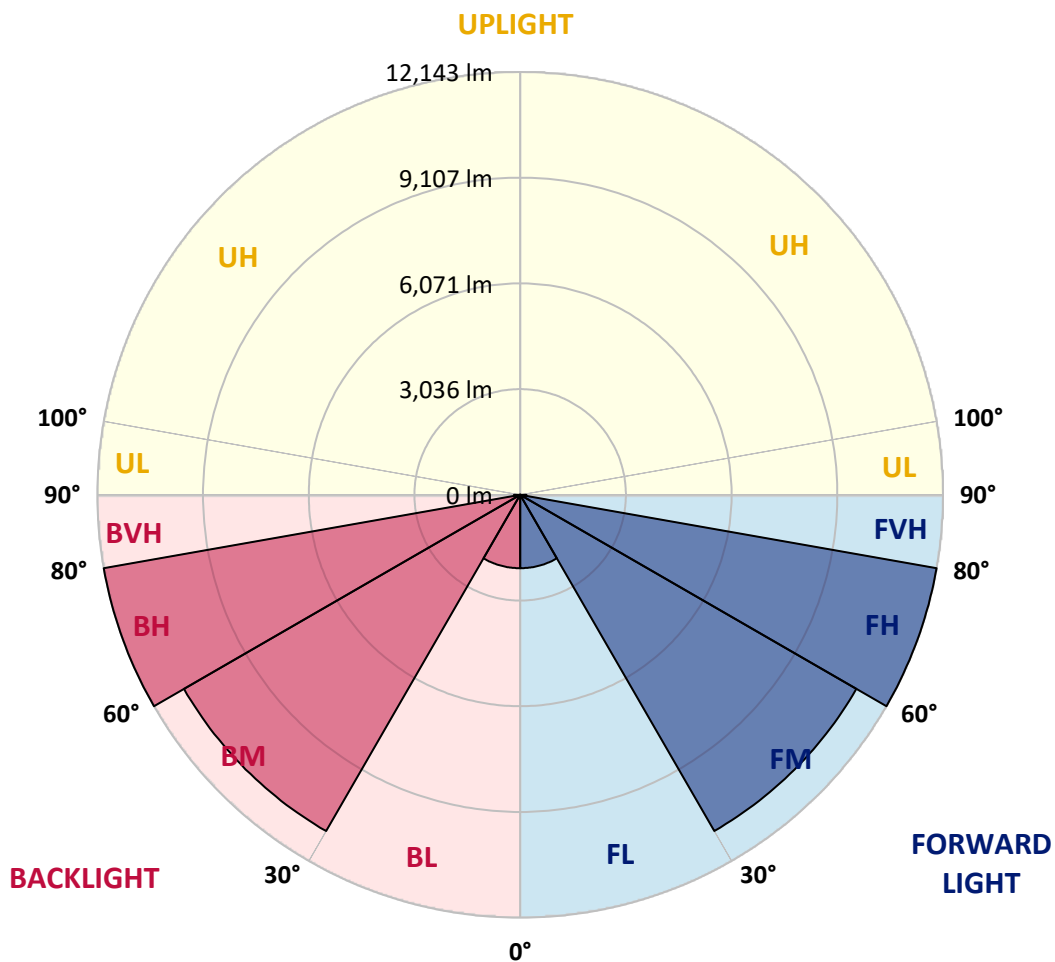
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2107.6	4.1			
FM	(30°-60°)	11148.2	21.8			
FH	(60°-80°)	12142.6	23.7			G5
FVH	(80°-90°)	178.4	0.3			G2/225
BL	(0°-30°)	2107.6	4.1	B3/2500		
BM	(30°-60°)	11148.2	21.8	B5		
BH	(60°-80°)	12142.6	23.7	B5		G5
BVH	(80°-90°)	178.4	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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7
2.5°	5078.8	5083.6	5083.6	5083.6	5081.2	5081.2	5076.5	5081.2	5078.8	5071.8	5074.1
5°	5036.5	5041.2	5041.2	5038.9	5045.9	5043.6	5036.5	5041.2	5038.9	5034.1	5036.5
7.5°	4975.3	4982.4	4982.4	4980.0	4987.1	4984.7	4980.0	4982.4	4982.4	4975.3	4975.3
10°	4907.1	4911.8	4911.8	4909.4	4921.2	4921.2	4918.9	4925.9	4928.3	4921.2	4916.5
12.5°	4843.6	4850.6	4850.6	4860.0	4871.8	4876.5	4888.3	4897.7	4907.1	4904.7	4895.3
15°	4806.0	4810.7	4820.1	4831.9	4850.6	4867.1	4885.9	4907.1	4925.9	4930.6	4916.5
17.5°	4782.5	4789.6	4803.7	4820.1	4845.9	4874.2	4902.4	4930.6	4956.5	4965.9	4949.4
20°	4775.4	4780.1	4794.3	4822.5	4857.7	4900.0	4940.0	4973.0	5008.3	5020.0	5008.3
22.5°	4789.6	4799.0	4815.4	4848.3	4895.3	4949.4	4996.5	5041.2	5085.9	5107.1	5090.6
25°	4853.0	4862.4	4883.6	4925.9	4977.7	5034.1	5088.3	5140.0	5180.0	5201.2	5189.4
27.5°	4970.6	4982.4	5008.3	5050.6	5107.1	5168.3	5227.1	5269.4	5302.4	5309.4	5295.3
30°	5147.1	5173.0	5203.5	5250.6	5316.5	5368.2	5427.1	5464.7	5504.6	5504.6	5492.8
32.5°	5422.4	5448.2	5481.1	5525.8	5577.5	5634.0	5685.8	5718.7	5761.1	5763.4	5735.2
35°	5834.0	5845.8	5874.0	5902.2	5949.3	5998.7	6043.4	6064.6	6099.9	6102.2	6076.3
37.5°	6377.4	6379.7	6398.6	6408.0	6450.3	6504.4	6546.8	6560.9	6593.8	6589.1	6563.3
40°	7010.2	7021.9	7029.0	7043.1	7087.8	7139.6	7184.3	7191.3	7226.6	7219.6	7186.6
42.5°	7741.8	7746.5	7786.5	7807.7	7850.0	7875.9	7932.4	7939.4	7981.8	7963.0	7925.3
45°	8562.8	8605.2	8642.8	8685.2	8729.8	8760.3	8805.0	8795.6	8823.9	8795.6	8774.5
47.5°	9426.1	9456.7	9541.4	9607.2	9680.2	9706.1	9769.6	9741.4	9769.6	9729.6	9722.5
50°	10376.5	10430.6	10503.6	10578.8	10656.4	10698.7	10781.1	10745.8	10783.4	10745.8	10724.6
52.5°	11312.7	11326.8	11486.8	11597.4	11705.6	11755.0	11804.4	11788.0	11790.3	11788.0	11766.8
55°	12202.0	12234.9	12394.9	12545.5	12733.6	12872.4	12957.1	12947.7	12926.5	12905.3	12870.1
57.5°	13204.1	13237.0	13420.5	13606.4	13820.5	14018.0	14189.8	14366.2	14434.4	14453.3	14375.6
60°	14559.0	14556.7	14801.4	15027.2	15333.0	15627.1	16003.5	16387.0	16826.8	17031.5	16760.9
62.5°	15937.6	15994.0	16347.0	16746.8	17377.3	17991.2	18685.2	19367.4	20063.7	20630.7	20028.5
65°	15773.0	15989.3	16513.9	17419.6	18584.0	19967.3	21463.5	23046.6	24476.9	25460.1	24356.9
67.5°	13669.9	13978.0	14512.0	15613.0	17069.2	19063.9	21576.4	24707.4	28346.6	30106.2	27925.5
70°	9908.4	10256.5	10816.4	11891.5	13333.4	15229.5	17958.3	21717.5	26535.2	28308.9	25907.2
72.5°	4930.6	5118.8	5464.7	6149.2	7240.8	8779.2	11254.0	14867.3	19129.8	20757.7	18562.9
75°	1674.9	1761.9	1820.8	2044.3	2390.0	2994.6	4224.9	6499.7	9915.5	11886.8	9774.3
77.5°	966.8	969.1	1009.1	1049.1	1108.0	1173.8	1338.5	1757.2	3039.3	4316.6	3145.2
80°	625.7	623.4	656.3	686.9	726.9	759.8	769.3	814.0	938.7	1112.7	995.0
82.5°	324.6	364.6	437.5	477.5	552.8	566.9	548.1	531.6	562.2	583.4	597.5
85°	178.8	155.3	232.9	301.2	334.0	338.7	338.7	320.0	331.6	324.6	352.8
87.5°	82.3	75.3	91.8	148.2	157.6	134.1	141.2	124.7	89.4	87.1	98.8
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°	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7
2.5°	5074.1	5076.5	5076.5	5083.6	5085.9	5090.6	5095.3	5097.7
5°	5034.1	5041.2	5036.5	5043.6	5043.6	5048.3	5048.3	5050.6
7.5°	4975.3	4982.4	4982.4	4982.4	4980.0	4987.1	4987.1	4987.1
10°	4914.2	4918.9	4916.5	4911.8	4907.1	4914.2	4911.8	4909.4
12.5°	4895.3	4883.6	4874.2	4869.5	4860.0	4862.4	4855.3	4855.3
15°	4907.1	4885.9	4869.5	4862.4	4853.0	4848.3	4843.6	4845.9
17.5°	4937.7	4911.8	4890.6	4878.9	4867.1	4860.0	4850.6	4853.0
20°	4991.8	4961.2	4930.6	4907.1	4885.9	4874.2	4867.1	4864.7
22.5°	5071.8	5027.1	4982.4	4947.1	4918.9	4902.4	4895.3	4890.6
25°	5163.5	5114.1	5062.4	5022.4	4994.1	4973.0	4958.9	4958.9
27.5°	5278.8	5238.8	5191.8	5144.7	5118.8	5097.7	5088.3	5083.6
30°	5471.8	5434.1	5396.5	5351.8	5318.8	5297.7	5281.2	5267.1
32.5°	5718.7	5688.1	5657.5	5624.6	5594.0	5565.8	5539.9	5528.1
35°	6066.9	6043.4	6022.2	5984.6	5972.8	5956.3	5942.2	5930.5
37.5°	6546.8	6537.4	6537.4	6497.4	6488.0	6480.9	6466.8	6469.1
40°	7177.2	7186.6	7174.9	7160.8	7153.7	7134.9	7134.9	7151.3
42.5°	7923.0	7930.0	7955.9	7932.4	7958.3	7934.7	7920.6	7932.4
45°	8788.6	8814.5	8866.2	8842.7	8859.2	8819.2	8769.8	8772.1
47.5°	9760.2	9783.7	9804.9	9788.4	9790.8	9724.9	9659.0	9642.5
50°	10769.3	10778.7	10790.5	10767.0	10771.7	10698.7	10623.5	10625.9
52.5°	11766.8	11811.5	11858.6	11795.0	11780.9	11698.6	11592.7	11550.3
55°	12907.7	12971.2	12917.1	12806.5	12695.9	12585.4	12446.7	12423.1
57.5°	14314.5	14206.2	14036.8	13827.5	13674.6	13519.3	13378.2	13319.3
60°	16271.7	15864.6	15558.9	15248.3	15053.1	14862.6	14676.7	14648.5
62.5°	19038.0	18334.8	17725.4	17083.2	16558.6	16149.3	15822.3	15730.6
65°	22505.5	20842.4	19400.4	18054.8	16885.6	16003.5	15448.3	15203.6
67.5°	23997.0	20713.0	18240.6	16330.5	14801.4	13733.4	13133.6	12834.8
70°	21087.0	17177.3	14488.6	12576.0	11183.4	10044.8	9501.4	9181.5
72.5°	14507.3	10927.0	8640.5	7052.5	5939.9	4987.1	4610.7	4582.5
75°	6513.8	4314.3	2973.4	2291.2	1929.0	1677.2	1599.7	1540.9
77.5°	1823.1	1347.9	1202.1	1124.4	1049.1	962.2	929.2	936.3
80°	886.9	837.5	804.6	755.1	686.9	614.0	581.0	595.2
82.5°	588.1	581.0	602.2	566.9	468.1	397.5	334.0	305.9
85°	357.5	362.2	369.3	371.6	315.3	221.2	150.6	169.4
87.5°	141.2	162.3	176.5	183.5	171.8	105.9	84.7	87.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)