

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: P190826

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190826
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-08-LED-E1-5MQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56236.7 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

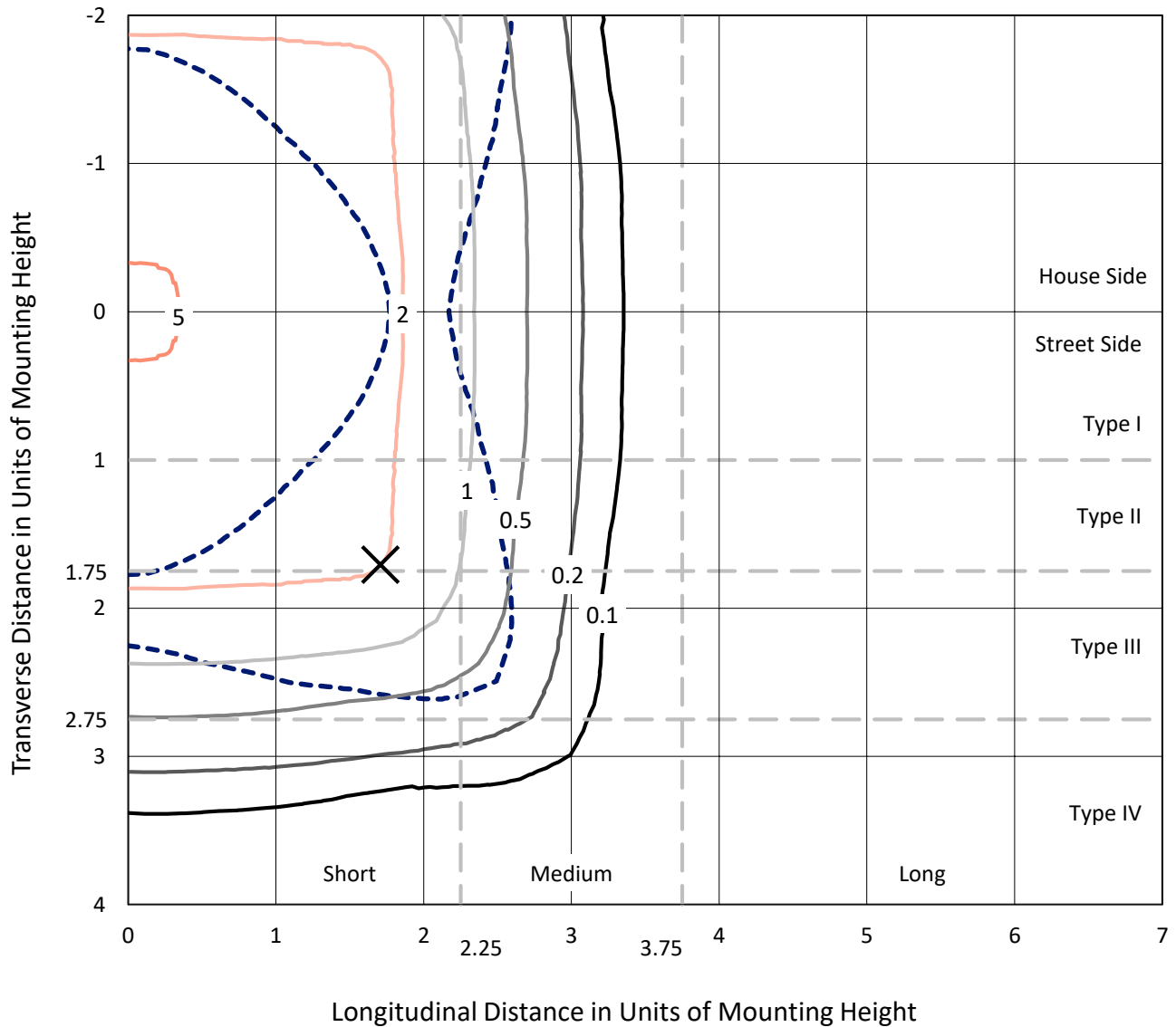


REPORT NUMBER: P190826

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

Iso-Footcandle Lines of Horizontal Illumination

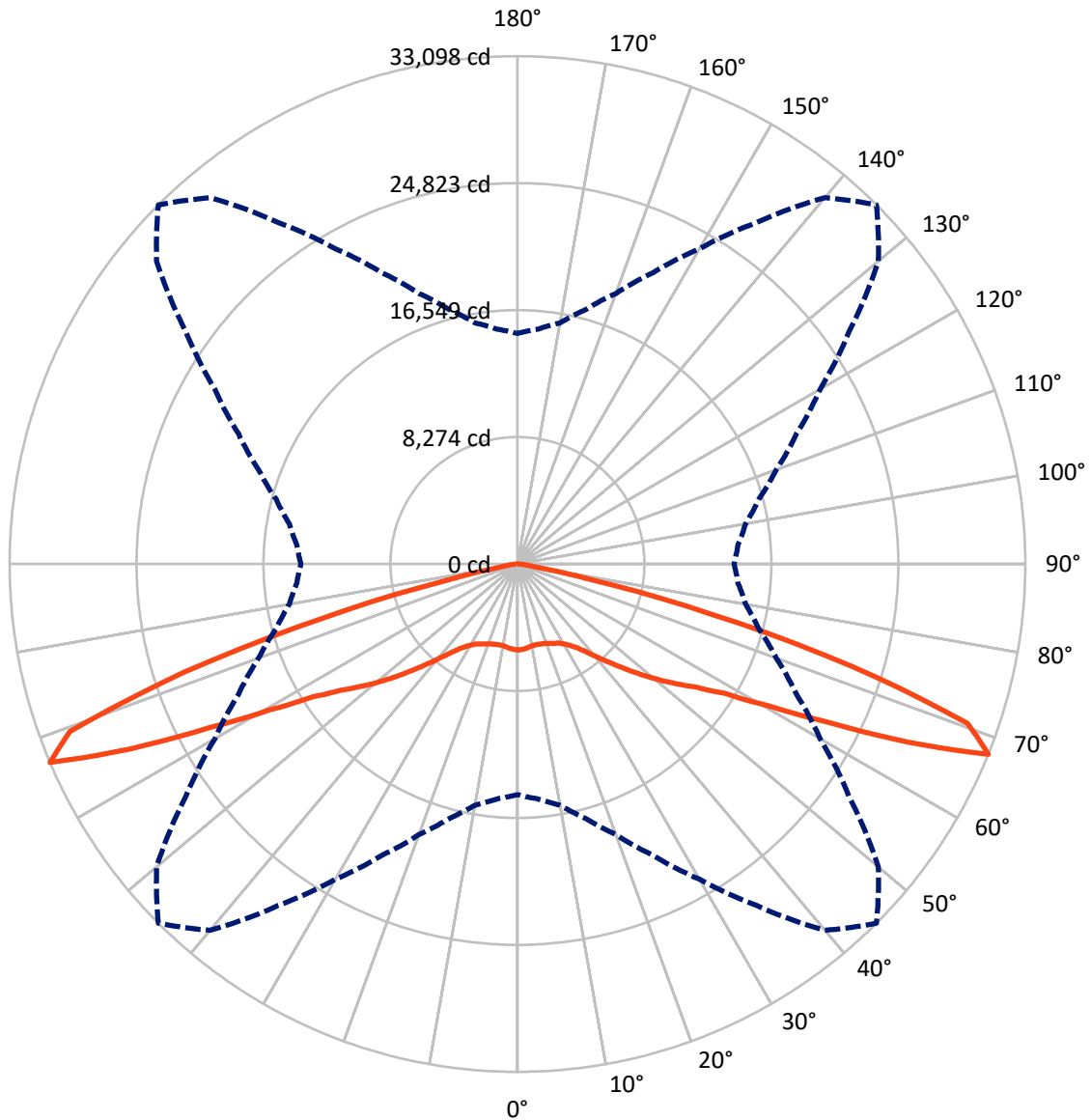
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190826
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P190826

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28118.4	0.0	28118.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28118.4	0.0	28118.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	56236.7	0.0	56236.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	0.9
10°-20°	1522.1	2.7
20°-30°	2587.5	4.6
30°-40°	4229.8	7.5
40°-50°	7551.0	13.4
50°-60°	12731.1	22.6
60°-70°	19756.8	35.1
70°-80°	6941.7	12.3
80°-90°	392.3	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°	56236.7	100.0
0°-180°	56236.7	100.0



REPORT NUMBER: P190826

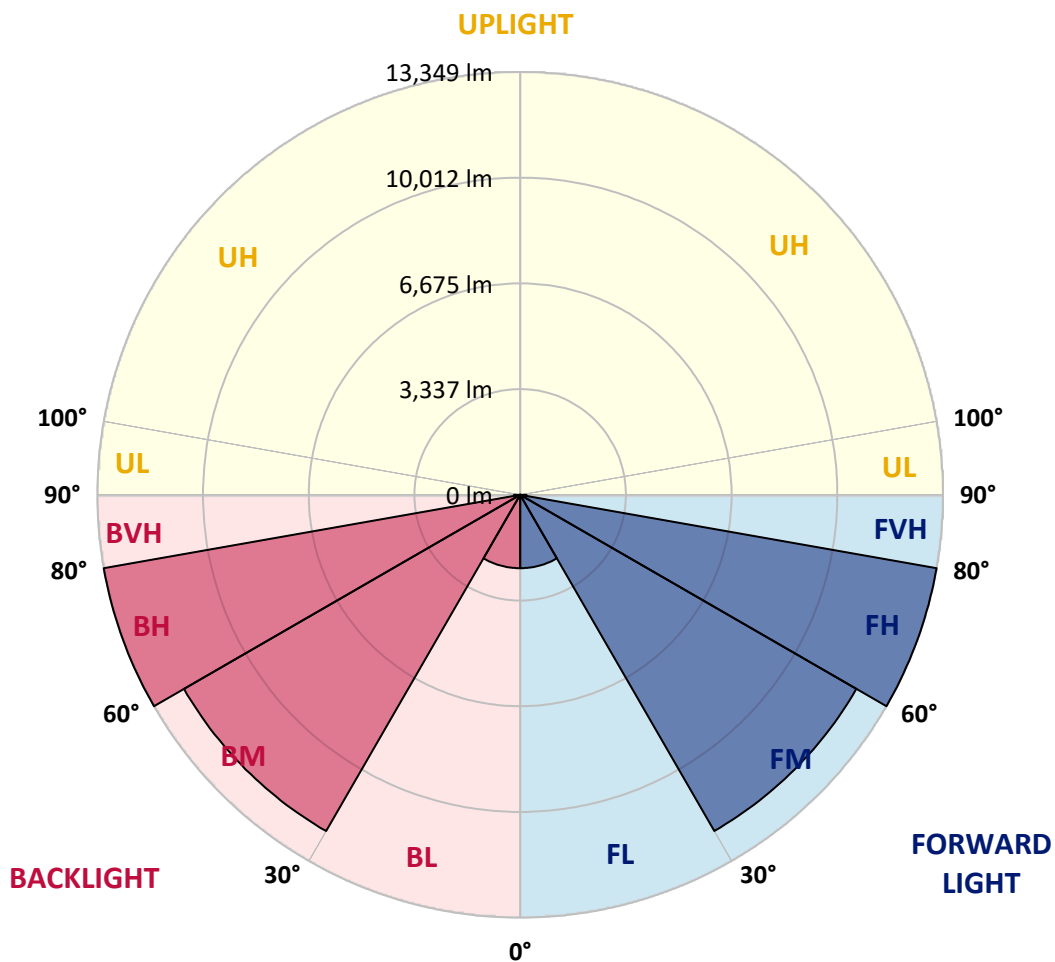
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2317.1	4.1			
FM	(30°-60°)	12255.9	21.8			
FH	(60°-80°)	13349.2	23.7			G5
FVH	(80°-90°)	196.1	0.3			G2/225
BL	(0°-30°)	2317.1	4.1	B3/2500		
BM	(30°-60°)	12255.9	21.8	B5		
BH	(60°-80°)	13349.2	23.7	B5		G5
BVH	(80°-90°)	196.1	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





REPORT NUMBER: P190826

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2
2.5°	5583.6	5588.7	5588.7	5588.7	5586.1	5586.1	5580.9	5586.1	5583.6	5575.8	5578.4
5°	5537.0	5542.1	5542.1	5539.6	5547.4	5544.7	5537.0	5542.1	5539.6	5534.4	5537.0
7.5°	5469.7	5477.5	5477.5	5474.9	5482.7	5480.0	5474.9	5477.5	5477.5	5469.7	5469.7
10°	5394.7	5400.0	5400.0	5397.3	5410.3	5410.3	5407.7	5415.4	5418.1	5410.3	5405.1
12.5°	5325.0	5332.6	5332.6	5343.0	5356.0	5361.1	5374.1	5384.4	5394.7	5392.2	5381.8
15°	5283.5	5288.8	5299.1	5312.0	5332.6	5350.7	5371.5	5394.7	5415.4	5420.6	5405.1
17.5°	5257.7	5265.4	5281.0	5299.1	5327.5	5358.5	5389.6	5420.6	5449.1	5459.4	5441.3
20°	5249.9	5255.1	5270.7	5301.6	5340.4	5387.0	5430.9	5467.2	5505.9	5518.9	5505.9
22.5°	5265.4	5275.8	5293.9	5330.1	5381.8	5441.3	5493.0	5542.1	5591.2	5614.6	5596.5
25°	5335.3	5345.6	5368.9	5415.4	5472.4	5534.4	5593.9	5650.8	5694.8	5718.0	5705.1
27.5°	5464.6	5477.5	5505.9	5552.5	5614.6	5681.8	5746.4	5793.0	5829.2	5837.0	5821.5
30°	5658.6	5687.0	5720.6	5772.3	5844.7	5901.6	5966.3	6007.7	6051.7	6051.7	6038.7
32.5°	5961.1	5989.6	6025.8	6074.9	6131.8	6193.9	6250.7	6287.0	6333.5	6336.2	6305.1
35°	6413.7	6426.6	6457.7	6488.7	6540.4	6594.8	6643.9	6667.2	6706.0	6708.5	6680.1
37.5°	7011.1	7013.7	7034.4	7044.8	7091.3	7150.7	7197.3	7212.8	7249.0	7243.8	7215.4
40°	7706.8	7719.7	7727.5	7743.0	7792.1	7849.0	7898.2	7905.9	7944.7	7937.0	7900.8
42.5°	8511.1	8516.3	8560.3	8583.5	8630.0	8658.5	8720.6	8728.3	8774.9	8754.2	8712.8
45°	9413.6	9460.2	9501.6	9548.1	9597.2	9630.9	9680.0	9669.6	9700.7	9669.6	9646.4
47.5°	10362.8	10396.4	10489.5	10561.9	10642.1	10670.5	10740.4	10709.3	10740.4	10696.4	10688.6
50°	11407.5	11467.1	11547.3	11630.0	11715.3	11761.9	11852.4	11813.6	11855.0	11813.6	11790.3
52.5°	12436.9	12452.4	12628.2	12749.9	12868.8	12923.0	12977.4	12959.3	12961.9	12959.3	12936.0
55°	13414.5	13450.7	13626.5	13792.0	13998.9	14151.5	14244.6	14234.3	14211.0	14187.7	14148.9
57.5°	14516.2	14552.4	14754.1	14958.4	15193.8	15411.0	15599.8	15793.7	15868.7	15889.4	15804.1
60°	16005.8	16003.2	16272.2	16520.5	16856.7	17179.9	17593.7	18015.3	18498.8	18723.9	18426.4
62.5°	17521.3	17583.4	17971.3	18411.0	19104.0	19779.1	20542.0	21291.9	22057.5	22680.7	22018.6
65°	17340.2	17578.2	18154.9	19150.6	20430.7	21951.4	23596.2	25336.7	26909.1	27990.1	26777.2
67.5°	15028.3	15367.0	15954.0	17164.4	18765.2	20958.3	23720.3	27162.5	31163.3	33097.8	30700.4
70°	10892.9	11275.7	11891.2	13073.1	14658.4	16742.8	19742.8	23875.5	29172.0	31121.9	28481.5
72.5°	5420.6	5627.5	6007.7	6760.3	7960.2	9651.5	12372.2	16344.6	21030.7	22820.4	20407.5
75°	1841.3	1937.1	2001.7	2247.4	2627.6	3292.2	4644.7	7145.6	10900.7	13067.9	10745.5
77.5°	1062.9	1065.5	1109.5	1153.5	1218.1	1290.5	1471.5	1931.8	3341.4	4745.6	3457.7
80°	687.9	685.4	721.6	755.1	799.1	835.3	845.7	894.8	1031.9	1223.2	1093.9
82.5°	356.9	400.9	481.0	525.0	607.7	623.3	602.6	584.5	618.1	641.4	656.8
85°	196.5	170.7	256.0	331.0	367.2	372.5	372.5	351.7	364.7	356.9	387.9
87.5°	90.5	82.8	100.9	163.0	173.3	147.4	155.2	137.1	98.3	95.6	108.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190826

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2
2.5°	5578.4	5580.9	5580.9	5588.7	5591.2	5596.5	5601.7	5604.2
5°	5534.4	5542.1	5537.0	5544.7	5544.7	5549.9	5549.9	5552.5
7.5°	5469.7	5477.5	5477.5	5477.5	5474.9	5482.7	5482.7	5482.7
10°	5402.5	5407.7	5405.1	5400.0	5394.7	5402.5	5400.0	5397.3
12.5°	5381.8	5368.9	5358.5	5353.4	5343.0	5345.6	5337.9	5337.9
15°	5394.7	5371.5	5353.4	5345.6	5335.3	5330.1	5325.0	5327.5
17.5°	5428.4	5400.0	5376.6	5363.7	5350.7	5343.0	5332.6	5335.3
20°	5487.8	5454.3	5420.6	5394.7	5371.5	5358.5	5350.7	5348.2
22.5°	5575.8	5526.6	5477.5	5438.7	5407.7	5389.6	5381.8	5376.6
25°	5676.7	5622.3	5565.5	5521.5	5490.5	5467.2	5451.6	5451.6
27.5°	5803.4	5759.4	5707.7	5656.0	5627.5	5604.2	5593.9	5588.7
30°	6015.5	5974.0	5932.7	5883.5	5847.3	5824.1	5806.0	5790.4
32.5°	6287.0	6253.4	6219.7	6183.5	6149.9	6118.9	6090.4	6077.5
35°	6669.7	6643.9	6620.6	6579.2	6566.3	6548.2	6532.7	6519.8
37.5°	7197.3	7186.9	7186.9	7143.0	7132.6	7124.9	7109.4	7112.0
40°	7890.4	7900.8	7887.8	7872.3	7864.5	7843.9	7843.9	7862.0
42.5°	8710.2	8718.0	8746.4	8720.6	8749.0	8723.1	8707.7	8720.6
45°	9662.0	9690.4	9747.3	9721.4	9739.5	9695.5	9641.2	9643.9
47.5°	10730.0	10755.9	10779.1	10761.0	10763.6	10691.3	10618.8	10600.7
50°	11839.4	11849.9	11862.8	11836.9	11842.1	11761.9	11679.1	11681.7
52.5°	12936.0	12985.1	13036.9	12967.0	12951.6	12861.0	12744.6	12698.1
55°	14190.3	14260.1	14200.6	14079.1	13957.6	13836.0	13683.4	13657.5
57.5°	15736.9	15617.9	15431.6	15201.5	15033.4	14862.8	14707.6	14642.9
60°	17888.5	17441.1	17105.0	16763.5	16548.9	16339.4	16135.1	16104.1
62.5°	20929.9	20156.6	19486.8	18780.8	18204.0	17754.0	17394.6	17293.7
65°	24741.9	22913.5	21328.1	19848.8	18563.5	17593.7	16983.3	16714.4
67.5°	26381.5	22771.2	20053.1	17953.2	16272.2	15098.0	14438.5	14110.2
70°	23182.4	18884.2	15928.2	13825.7	12294.6	11043.0	10445.6	10093.9
72.5°	15948.9	12012.7	9499.0	7753.4	6530.1	5482.7	5068.9	5037.8
75°	7161.1	4743.0	3268.9	2518.9	2120.7	1844.0	1758.6	1693.9
77.5°	2004.3	1481.8	1321.6	1236.2	1153.5	1057.7	1021.5	1029.3
80°	975.0	920.7	884.4	830.1	755.1	674.9	638.8	654.3
82.5°	646.5	638.8	662.1	623.3	514.6	437.1	367.2	336.2
85°	393.1	398.2	406.0	408.6	346.6	243.1	165.5	186.2
87.5°	155.2	178.4	194.0	201.7	188.8	116.4	93.1	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)