

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: P193358

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193358
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50505 lumens
Efficiency: N/A
Efficacy: 90.5 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 - G4

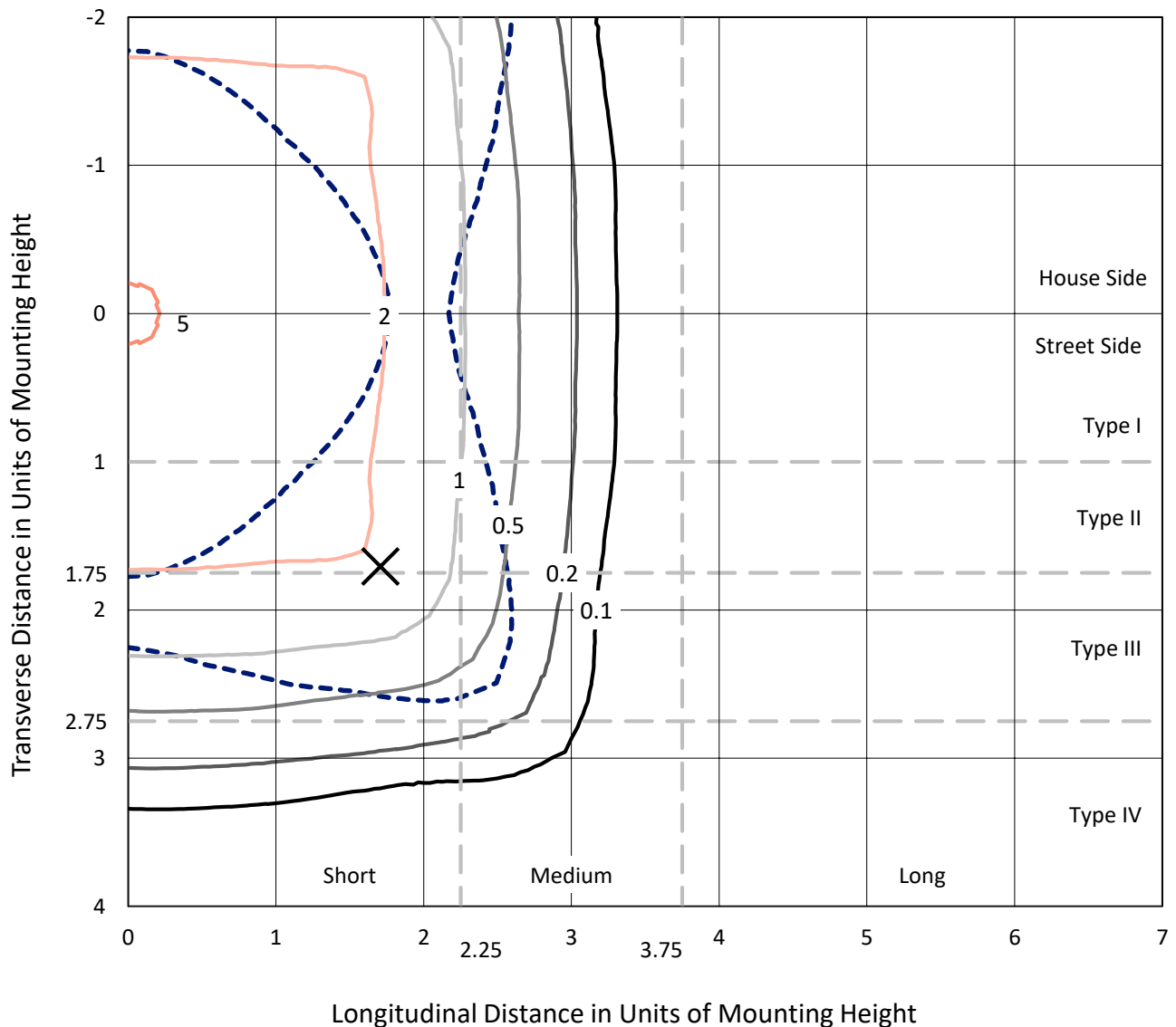
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193358
 CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

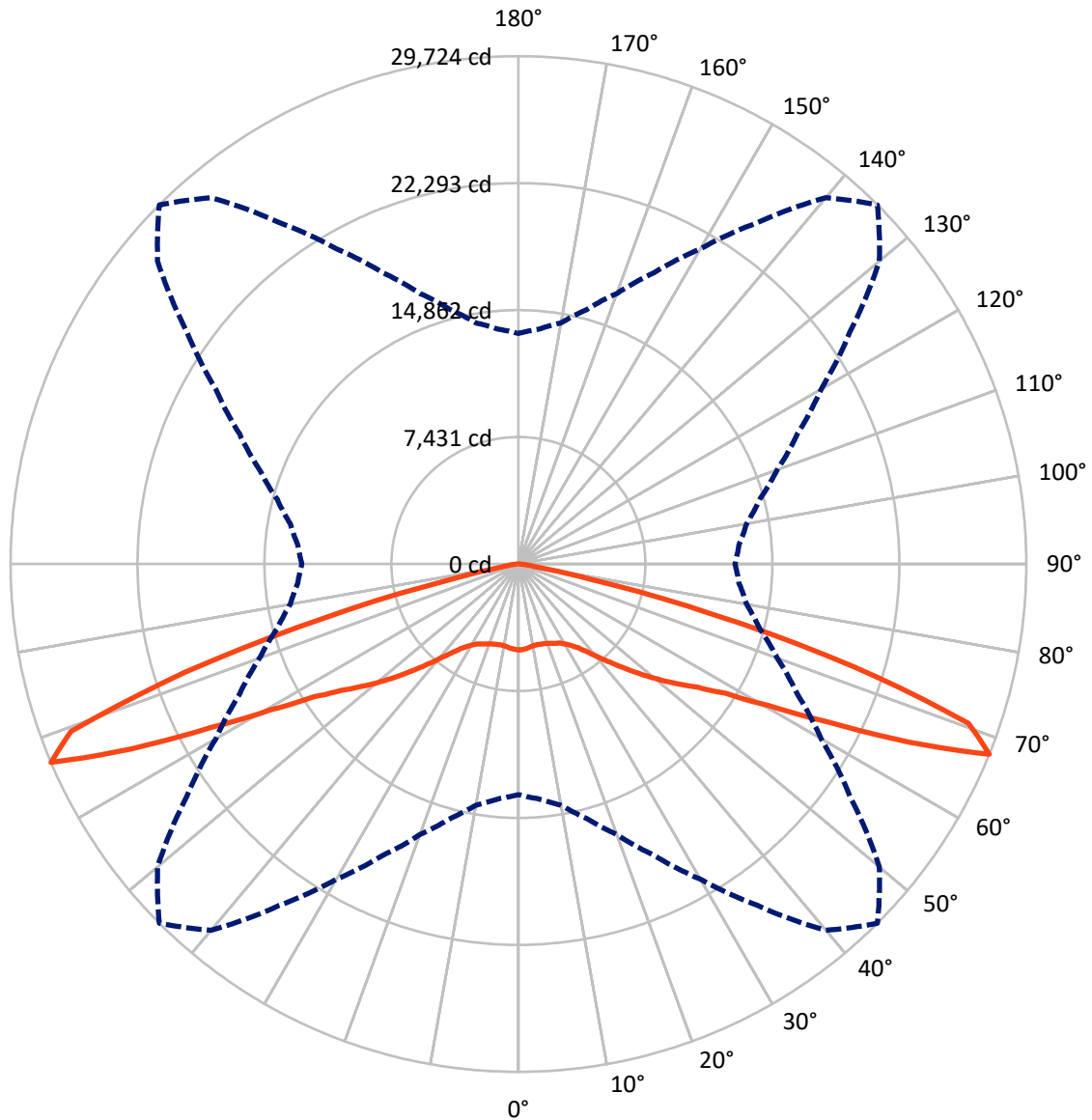
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P193358
CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193358

CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25252.5	0.0	25252.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25252.5	0.0	25252.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50505.0	0.0	50505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	0.9
10°-20°	1367.0	2.7
20°-30°	2323.8	4.6
30°-40°	3798.7	7.5
40°-50°	6781.3	13.4
50°-60°	11433.5	22.6
60°-70°	17743.1	35.1
70°-80°	6234.2	12.3
80°-90°	352.3	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°	50505.0	100.0
0°-180°	50505.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193358

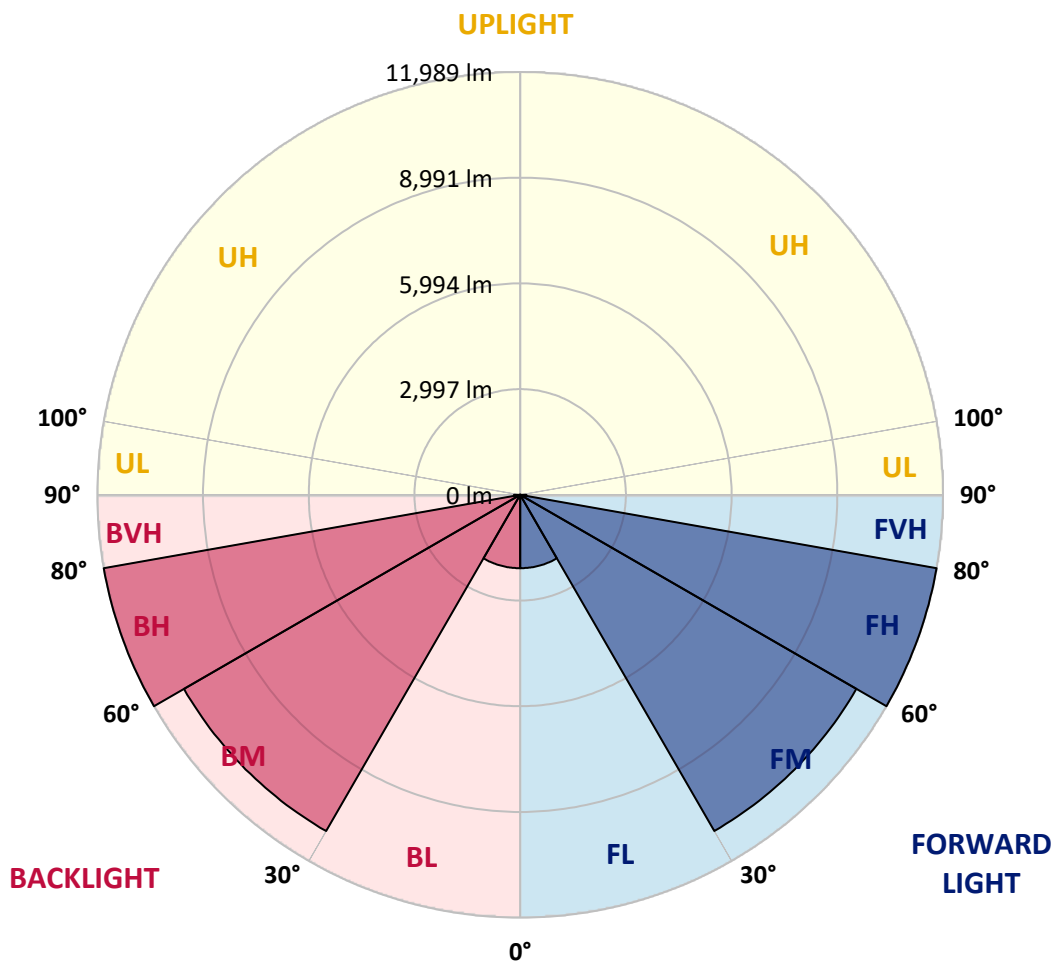
CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2080.9	4.1			
FM	(30°-60°)	11006.8	21.8			
FH	(60°-80°)	11988.7	23.7			G4/12000
FVH	(80°-90°)	176.2	0.3			G2/225
BL	(0°-30°)	2080.9	4.1	B3/2500		
BM	(30°-60°)	11006.8	21.8	B5		
BH	(60°-80°)	11988.7	23.7	B5		G4/12000
BVH	(80°-90°)	176.2	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-G4

Type V Short





REPORT NUMBER: P193358

CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0
2.5°	5014.5	5019.1	5019.1	5019.1	5016.8	5016.8	5012.1	5016.8	5014.5	5007.5	5009.8
5°	4972.6	4977.3	4977.3	4975.0	4981.9	4979.6	4972.6	4977.3	4975.0	4970.3	4972.6
7.5°	4912.3	4919.2	4919.2	4916.9	4923.9	4921.6	4916.9	4919.2	4919.2	4912.3	4912.3
10°	4844.9	4849.6	4849.6	4847.2	4858.8	4858.8	4856.5	4863.5	4865.8	4858.8	4854.2
12.5°	4782.2	4789.2	4789.2	4798.5	4810.1	4814.7	4826.3	4835.6	4844.9	4842.6	4833.3
15°	4745.0	4749.7	4759.0	4770.6	4789.2	4805.4	4824.0	4844.9	4863.5	4868.1	4854.2
17.5°	4721.8	4728.8	4742.7	4759.0	4784.5	4812.4	4840.3	4868.1	4893.7	4903.0	4886.7
20°	4714.8	4719.5	4733.4	4761.3	4796.1	4837.9	4877.4	4909.9	4944.8	4956.4	4944.8
22.5°	4728.8	4738.1	4754.3	4786.8	4833.3	4886.7	4933.2	4977.3	5021.4	5042.3	5026.1
25°	4791.5	4800.8	4821.7	4863.5	4914.6	4970.3	5023.7	5074.8	5114.3	5135.2	5123.6
27.5°	4907.6	4919.2	4944.8	4986.6	5042.3	5102.7	5160.8	5202.6	5235.1	5242.1	5228.1
30°	5081.8	5107.4	5137.6	5184.0	5249.0	5300.1	5358.2	5395.4	5434.8	5434.8	5423.2
32.5°	5353.6	5379.1	5411.6	5455.7	5506.8	5562.6	5613.7	5646.2	5688.0	5690.3	5662.5
35°	5760.0	5771.6	5799.5	5827.4	5873.8	5922.6	5966.7	5987.6	6022.5	6024.8	5999.2
37.5°	6296.5	6298.8	6317.4	6326.7	6368.5	6421.9	6463.7	6477.7	6510.2	6505.6	6480.0
40°	6921.3	6932.9	6939.9	6953.8	6997.9	7049.0	7093.2	7100.1	7135.0	7128.0	7095.5
42.5°	7643.6	7648.3	7687.7	7708.7	7750.5	7776.0	7831.7	7838.7	7880.5	7861.9	7824.8
45°	8454.2	8496.0	8533.2	8575.0	8619.1	8649.3	8693.4	8684.1	8712.0	8684.1	8663.2
47.5°	9306.6	9336.8	9420.4	9485.4	9557.4	9583.0	9645.7	9617.8	9645.7	9606.2	9599.2
50°	10244.9	10298.3	10370.3	10444.7	10521.3	10563.1	10644.4	10609.6	10646.7	10609.6	10588.7
52.5°	11169.3	11183.2	11341.2	11450.3	11557.2	11605.9	11654.7	11638.5	11640.8	11638.5	11617.6
55°	12047.2	12079.8	12237.7	12386.3	12572.1	12709.2	12792.8	12783.5	12762.6	12741.7	12706.8
57.5°	13036.7	13069.2	13250.3	13433.8	13645.2	13840.3	14009.8	14184.0	14251.4	14269.9	14193.3
60°	14374.5	14372.1	14613.7	14836.7	15138.6	15428.9	15800.5	16179.1	16613.4	16815.5	16548.4
62.5°	15735.5	15791.2	16139.6	16534.5	17156.9	17763.1	18448.3	19121.8	19809.3	20369.0	19774.5
65°	15572.9	15786.6	16304.5	17198.7	18348.4	19714.1	21191.2	22754.3	24166.5	25137.3	24048.0
67.5°	13496.5	13800.8	14328.0	15415.0	16852.7	18822.2	21302.7	24394.1	27987.1	29724.4	27571.4
70°	9782.7	10126.5	10679.2	11740.7	13164.4	15036.4	17730.6	21442.1	26198.7	27950.0	25578.6
72.5°	4868.1	5053.9	5395.4	6071.2	7148.9	8667.9	11111.2	14678.7	18887.2	20494.5	18327.5
75°	1653.7	1739.6	1797.7	2018.3	2359.7	2956.6	4171.4	6417.3	9789.7	11736.0	9650.3
77.5°	954.6	956.9	996.4	1035.9	1093.9	1159.0	1321.5	1735.0	3000.8	4261.9	3105.3
80°	617.8	615.5	648.0	678.2	717.7	750.2	759.5	803.6	926.7	1098.6	982.5
82.5°	320.5	360.0	432.0	471.5	545.8	559.7	541.2	524.9	555.1	576.0	589.9
85°	176.5	153.3	229.9	297.3	329.8	334.5	334.5	315.9	327.5	320.5	348.4
87.5°	81.3	74.3	90.6	146.3	155.6	132.4	139.4	123.1	88.3	85.9	97.5
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: P193358

CATALOG NUMBER: GLEON-AF-10-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0	5033.0
2.5°	5009.8	5012.1	5012.1	5019.1	5021.4	5026.1	5030.7	5033.0
5°	4970.3	4977.3	4972.6	4979.6	4979.6	4984.3	4984.3	4986.6
7.5°	4912.3	4919.2	4919.2	4919.2	4916.9	4923.9	4923.9	4923.9
10°	4851.9	4856.5	4854.2	4849.6	4844.9	4851.9	4849.6	4847.2
12.5°	4833.3	4821.7	4812.4	4807.7	4798.5	4800.8	4793.8	4793.8
15°	4844.9	4824.0	4807.7	4800.8	4791.5	4786.8	4782.2	4784.5
17.5°	4875.1	4849.6	4828.6	4817.0	4805.4	4798.5	4789.2	4791.5
20°	4928.5	4898.3	4868.1	4844.9	4824.0	4812.4	4805.4	4803.1
22.5°	5007.5	4963.4	4919.2	4884.4	4856.5	4840.3	4833.3	4828.6
25°	5098.1	5049.3	4998.2	4958.7	4930.8	4909.9	4896.0	4896.0
27.5°	5211.9	5172.4	5125.9	5079.5	5053.9	5033.0	5023.7	5019.1
30°	5402.3	5365.2	5328.0	5283.9	5251.4	5230.5	5214.2	5200.3
32.5°	5646.2	5616.0	5585.8	5553.3	5523.1	5495.2	5469.7	5458.1
35°	5989.9	5966.7	5945.8	5908.6	5897.0	5880.8	5866.8	5855.2
37.5°	6463.7	6454.5	6454.5	6415.0	6405.7	6398.7	6384.8	6387.1
40°	7086.2	7095.5	7083.9	7069.9	7063.0	7044.4	7044.4	7060.7
42.5°	7822.5	7829.4	7855.0	7831.7	7857.3	7834.1	7820.1	7831.7
45°	8677.2	8702.7	8753.8	8730.6	8746.8	8707.4	8658.6	8660.9
47.5°	9636.4	9659.6	9680.5	9664.3	9666.6	9601.6	9536.5	9520.3
50°	10632.8	10642.1	10653.7	10630.5	10635.1	10563.1	10488.8	10491.1
52.5°	11617.6	11661.7	11708.1	11645.4	11631.5	11550.2	11445.7	11403.9
55°	12744.0	12806.7	12753.3	12644.1	12535.0	12425.8	12288.8	12265.6
57.5°	14132.9	14026.1	13858.8	13652.1	13501.2	13347.9	13208.5	13150.5
60°	16065.3	15663.5	15361.6	15055.0	14862.2	14674.1	14490.6	14462.7
62.5°	18796.7	18102.2	17500.7	16866.6	16348.7	15944.5	15621.7	15531.1
65°	22220.1	20578.1	19154.3	17825.8	16671.5	15800.5	15252.4	15010.9
67.5°	23692.7	20450.3	18009.3	16123.4	14613.7	13559.2	12967.0	12672.0
70°	20819.6	16959.5	14304.8	12416.5	11041.6	9917.4	9380.9	9065.0
72.5°	14323.4	10788.4	8530.8	6963.1	5864.5	4923.9	4552.3	4524.4
75°	6431.2	4259.6	2935.7	2262.2	1904.5	1656.0	1579.4	1521.3
77.5°	1800.0	1330.8	1186.8	1110.2	1035.9	949.9	917.4	924.4
80°	875.6	826.8	794.3	745.5	678.2	606.2	573.7	587.6
82.5°	580.6	573.7	594.6	559.7	462.2	392.5	329.8	301.9
85°	353.0	357.7	364.6	367.0	311.2	218.3	148.6	167.2
87.5°	139.4	160.3	174.2	181.2	169.5	104.5	83.6	85.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)