

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: P191826

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53494 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - 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

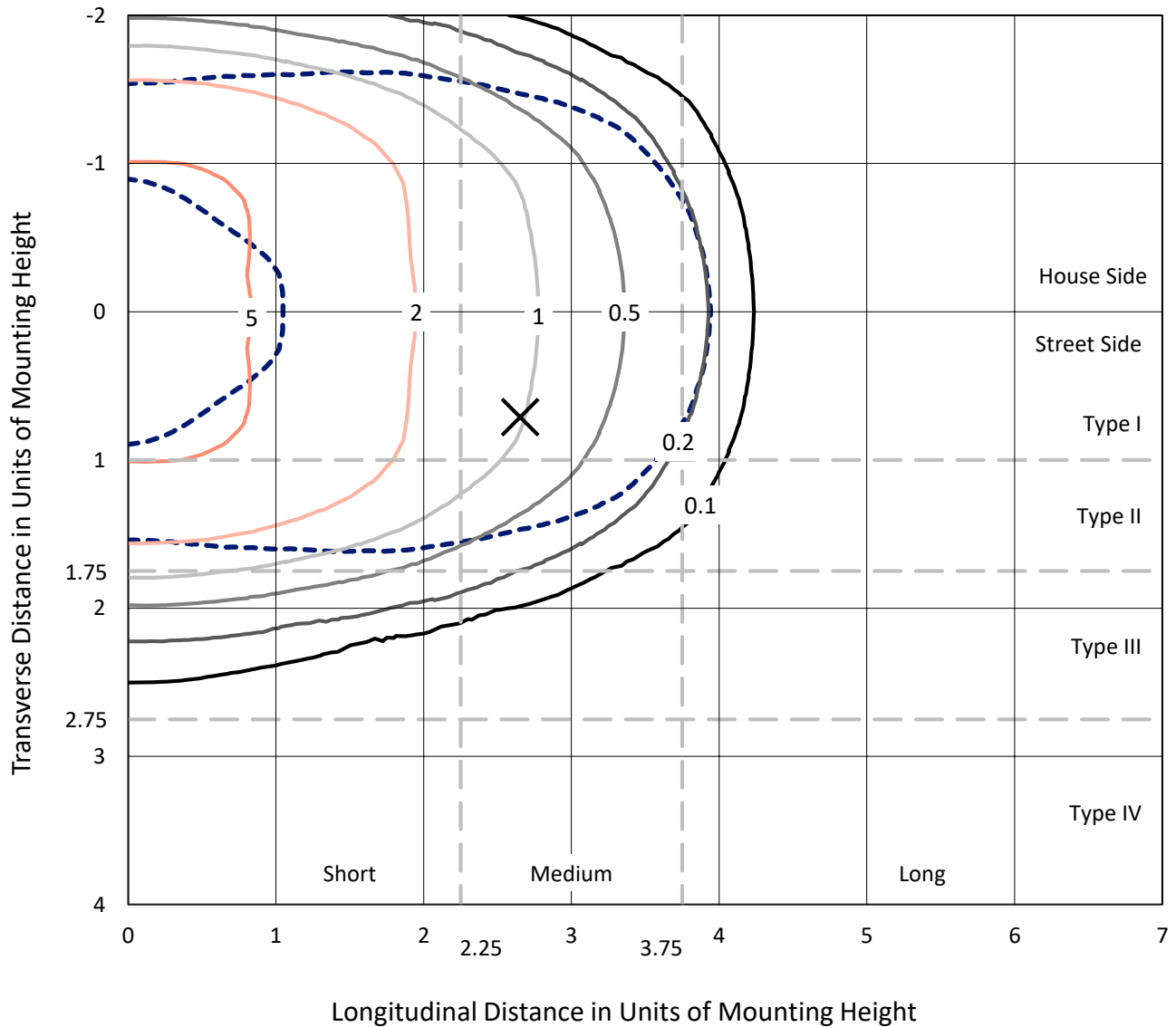


REPORT NUMBER: P191826

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

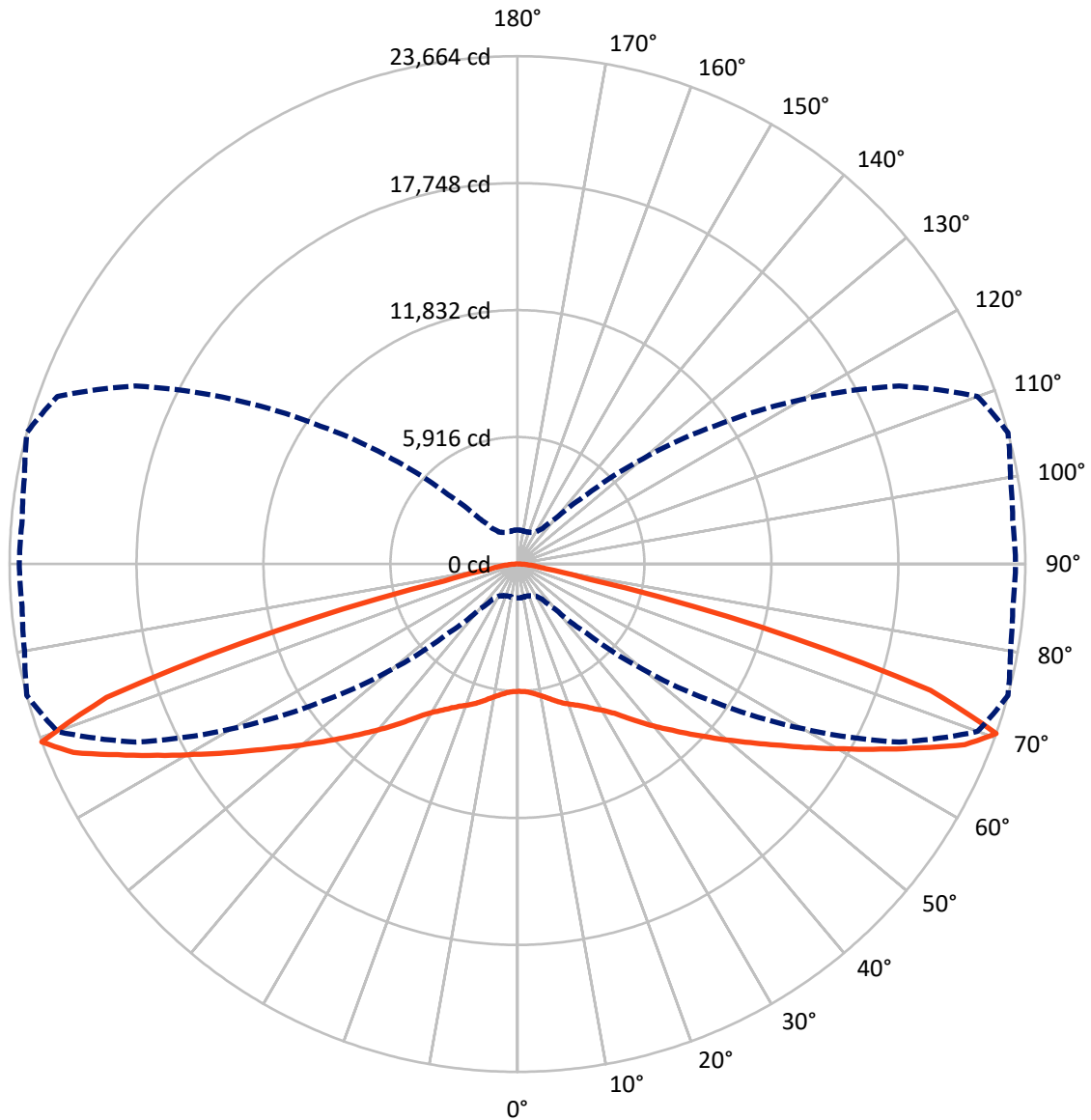


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191826

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191826

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26747.0	0.0	26747.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26747.0	0.0	26747.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53494.0	0.0	53494.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.1	1.1
10°-20°	1768.3	3.3
20°-30°	3328.1	6.2
30°-40°	5893.4	11.0
40°-50°	9855.7	18.4
50°-60°	13734.0	25.7
60°-70°	12736.1	23.8
70°-80°	5075.7	9.5
80°-90°	533.5	1.0
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°	53494.0	100.0
0°-180°	53494.0	100.0



REPORT NUMBER: P191826

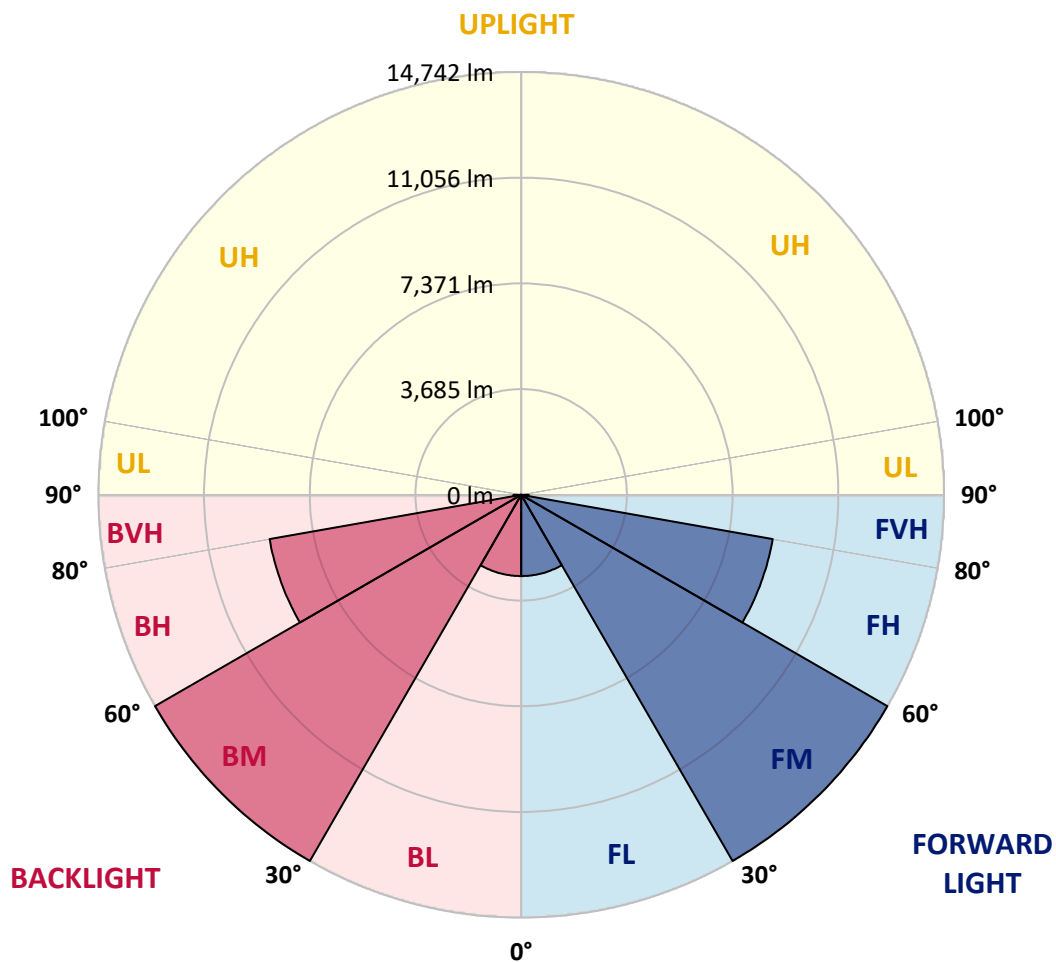
CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2832.7	5.3			
FM	(30°-60°)	14741.6	27.6			
FH	(60°-80°)	8905.9	16.6			G4/12000
FVH	(80°-90°)	266.8	0.5			G3/500
BL	(0°-30°)	2832.7	5.3	B4/5000		
BM	(30°-60°)	14741.6	27.6	B5		
BH	(60°-80°)	8905.9	16.6	B5		G5
BVH	(80°-90°)	266.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium





REPORT NUMBER: P191826

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7
2.5°	5923.6	5918.6	5923.6	5921.1	5926.1	5926.1	5931.2	5941.3	5941.3	5948.9	5946.4
5°	5865.5	5862.9	5870.5	5878.1	5885.7	5900.9	5916.0	5938.8	5956.5	5969.1	5981.8
7.5°	5751.7	5751.7	5761.8	5779.5	5797.2	5830.1	5865.5	5911.0	5956.5	5994.4	6027.3
10°	5658.2	5663.2	5675.9	5706.2	5736.5	5787.1	5835.1	5900.9	5964.1	6027.3	6077.8
12.5°	5602.5	5610.1	5632.9	5678.4	5728.9	5797.2	5870.5	5954.0	6024.7	6100.6	6151.2
15°	5620.2	5625.3	5658.2	5713.8	5779.5	5865.5	5964.1	6062.7	6146.1	6227.0	6295.3
17.5°	5718.8	5726.4	5764.3	5827.5	5895.8	5996.9	6103.1	6214.4	6318.0	6409.0	6492.5
20°	5895.8	5903.4	5951.4	6019.7	6100.6	6204.3	6310.4	6426.7	6543.0	6639.1	6732.6
22.5°	6146.1	6158.7	6204.3	6272.5	6363.5	6474.8	6601.2	6725.1	6836.3	6924.8	7008.2
25°	6474.8	6502.6	6545.6	6621.4	6717.5	6818.6	6955.1	7081.5	7187.7	7271.2	7331.8
27.5°	6940.0	6977.9	7010.8	7084.1	7177.6	7273.7	7410.2	7521.5	7622.6	7703.5	7749.0
30°	7556.8	7594.8	7627.6	7698.4	7784.4	7875.4	8004.3	8102.9	8166.1	8229.4	8226.8
32.5°	8305.2	8345.7	8358.3	8434.1	8522.6	8621.2	8737.5	8793.1	8843.7	8851.3	8805.8
35°	9142.0	9162.3	9212.8	9314.0	9415.1	9496.0	9607.2	9635.0	9635.0	9597.1	9496.0
37.5°	10059.8	10072.4	10143.2	10257.0	10360.6	10444.1	10519.9	10575.5	10547.7	10466.8	10297.4
40°	11066.0	11088.8	11189.9	11291.0	11407.3	11485.7	11566.6	11576.7	11548.9	11430.1	11200.0
42.5°	12026.7	12047.0	12148.1	12307.4	12459.1	12567.8	12643.6	12658.8	12570.3	12461.6	12175.9
45°	12853.5	12906.6	13038.0	13225.1	13445.1	13599.3	13702.9	13745.9	13667.6	13526.0	13194.8
47.5°	13508.3	13561.4	13748.5	13970.9	14244.0	14494.3	14666.2	14757.2	14737.0	14630.8	14269.3
50°	13988.6	14039.2	14241.5	14514.5	14833.1	15144.0	15437.3	15654.7	15730.6	15682.5	15351.3
52.5°	14044.3	14127.7	14365.3	14731.9	15146.6	15571.3	15988.5	16357.6	16607.9	16645.8	16400.6
55°	13268.1	13351.5	13680.2	14223.8	14840.6	15533.4	16200.8	16822.8	17315.8	17568.6	17439.7
57.5°	11437.7	11586.8	11933.2	12570.3	13477.9	14514.5	15578.9	16683.7	17687.4	18357.4	18486.3
60°	8765.3	8942.3	9291.2	9968.8	10980.1	12216.4	13637.2	15270.4	17042.7	18549.5	19449.6
62.5°	5622.8	5789.6	6156.2	6745.3	7569.5	8909.4	10434.0	12373.1	14754.7	17133.7	19277.7
65°	2889.8	2980.8	3172.9	3529.4	4171.6	5172.7	6540.5	8474.6	11197.5	14132.7	17232.3
67.5°	1830.4	1848.1	1891.1	1941.7	2106.0	2452.4	3089.5	4295.4	6535.4	9597.1	13225.1
70°	1582.7	1582.7	1562.4	1554.9	1575.1	1623.1	1721.7	2002.3	2758.3	4555.9	7627.6
72.5°	1448.7	1433.5	1398.1	1370.3	1365.2	1365.2	1385.5	1428.4	1549.8	1855.7	2985.8
75°	1334.9	1291.9	1243.9	1211.0	1198.4	1185.7	1183.2	1190.8	1216.1	1264.1	1425.9
77.5°	1195.8	1140.2	1084.6	1051.7	1036.6	1018.9	1003.7	986.0	973.4	988.5	1059.3
80°	1029.0	965.8	922.8	902.6	887.4	862.1	829.3	798.9	771.1	766.1	809.0
82.5°	829.3	755.9	758.5	766.1	738.2	702.8	667.4	634.6	586.5	561.3	586.5
85°	670.0	632.1	614.4	662.4	621.9	568.8	513.2	455.1	379.2	318.6	346.4
87.5°	260.4	260.4	389.3	599.2	538.5	439.9	376.7	321.1	199.7	154.2	156.7
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: P191826

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-7050-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7	5933.7
2.5°	5943.8	5948.9	5946.4	5943.8	5943.8	5941.3	5943.8	5943.8
5°	5989.4	6002.0	6002.0	6007.0	6007.0	6009.6	6012.1	6009.6
7.5°	6057.6	6080.4	6095.5	6113.2	6115.8	6118.3	6123.3	6118.3
10°	6125.9	6171.4	6204.3	6237.1	6252.3	6257.3	6262.4	6262.4
12.5°	6211.8	6275.0	6333.2	6391.3	6419.1	6434.3	6434.3	6444.4
15°	6353.4	6416.6	6484.9	6563.3	6611.3	6636.6	6644.2	6644.2
17.5°	6553.1	6608.8	6666.9	6742.8	6803.4	6836.3	6843.9	6841.4
20°	6785.7	6838.8	6871.7	6919.7	6972.8	7010.8	7020.9	7020.9
22.5°	7051.2	7081.5	7086.6	7101.8	7144.7	7195.3	7218.1	7223.1
25°	7344.5	7352.1	7331.8	7331.8	7359.6	7407.7	7430.4	7433.0
27.5°	7723.7	7685.8	7635.2	7617.5	7635.2	7690.8	7718.7	7728.8
30°	8196.5	8105.5	7989.2	7926.0	7915.9	7989.2	8039.7	8047.3
32.5°	8737.5	8606.1	8451.8	8322.9	8290.0	8335.5	8396.2	8393.7
35°	9379.7	9222.9	9035.9	8871.5	8795.7	8841.2	8927.1	8937.3
37.5°	10120.5	9915.7	9700.8	9493.5	9374.6	9387.3	9478.3	9508.6
40°	10947.2	10681.7	10411.2	10133.1	9963.7	9930.8	10042.1	10059.8
42.5°	11832.1	11490.8	11149.4	10805.6	10588.2	10537.6	10666.6	10659.0
45°	12775.1	12340.2	11940.8	11561.5	11303.7	11227.8	11334.0	11334.0
47.5°	13788.9	13252.9	12777.6	12347.8	12067.2	11958.5	12059.6	12067.2
50°	14863.4	14294.6	13735.8	13258.0	12921.7	12782.7	12914.1	12934.4
52.5°	15932.8	15379.2	14815.4	14269.3	13862.2	13692.8	13844.5	13910.3
55°	17017.4	16473.9	15935.4	15401.9	14919.0	14719.3	14881.1	14964.5
57.5°	18162.7	17659.6	17146.4	16607.9	16142.7	15831.7	16003.6	16114.9
60°	19505.2	19075.4	18542.0	17947.8	17477.6	17161.6	17260.2	17358.8
62.5°	20567.1	20733.9	20281.4	19593.7	18989.5	18584.9	18681.0	18784.7
65°	20053.8	21765.4	22167.4	21472.2	20635.3	20005.8	19965.3	20018.4
67.5°	16762.1	20086.7	22511.3	23173.7	22473.3	21598.6	21436.8	21515.1
70°	11212.7	15353.9	19631.6	22817.2	23664.1	23325.4	23166.1	23214.1
72.5°	5385.1	8942.3	13318.7	17553.4	20132.2	21315.4	21694.7	21879.2
75°	1969.5	3549.6	6419.1	9673.0	11677.8	13518.4	14719.3	15209.8
77.5°	1188.3	1433.5	2050.4	3087.0	3496.5	3913.7	3751.9	3832.8
80°	879.8	993.6	1125.1	1264.1	1309.6	1309.6	1259.1	1218.6
82.5°	616.9	690.2	753.4	829.3	849.5	811.6	667.4	530.9
85°	396.9	429.8	457.6	505.6	493.0	470.2	316.0	280.6
87.5°	182.0	207.3	217.4	240.2	230.1	220.0	156.7	131.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)