

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: P191828

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191828
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-10-LED-E1-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 66066 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 640
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

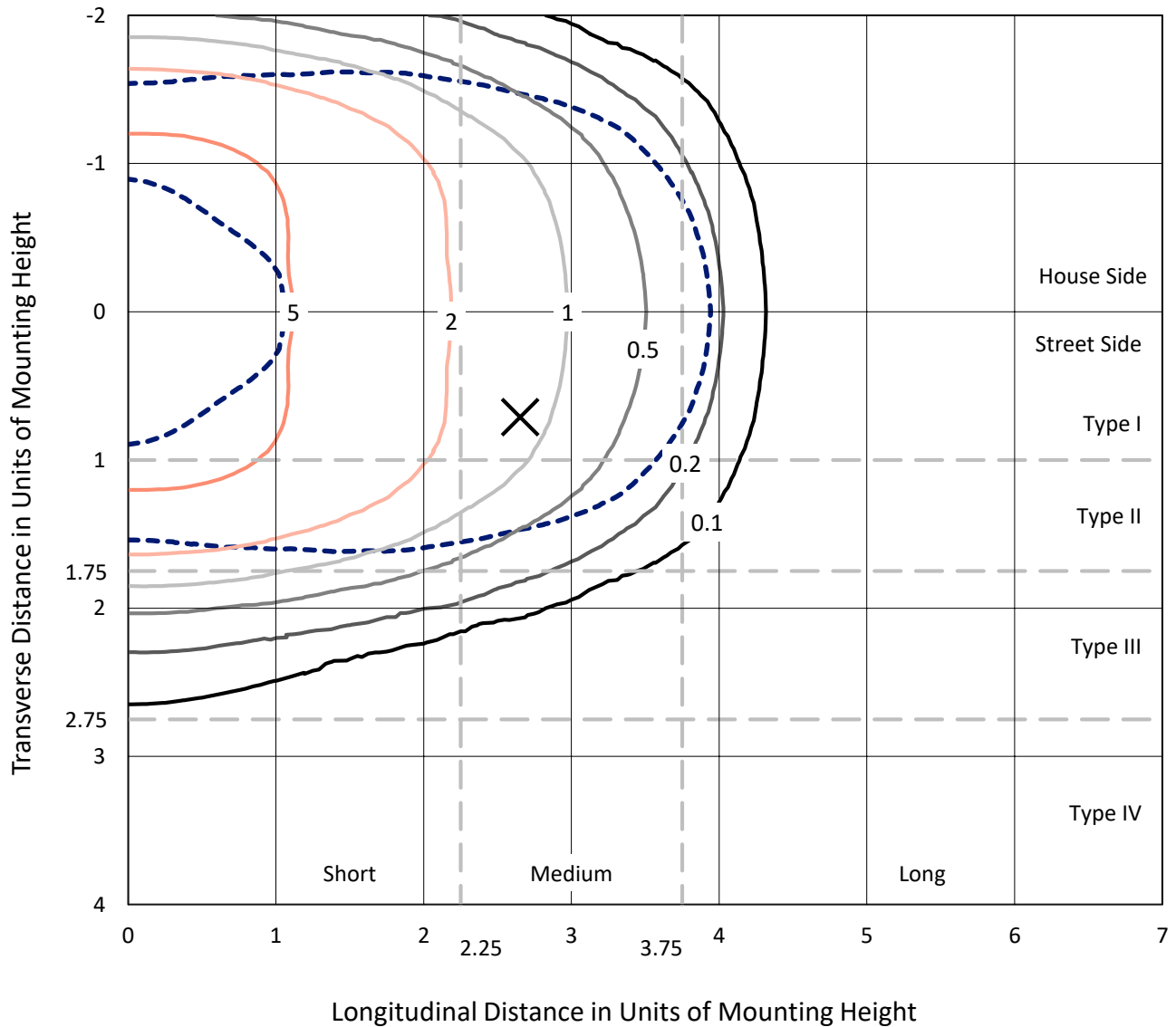


REPORT NUMBER: P191828

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

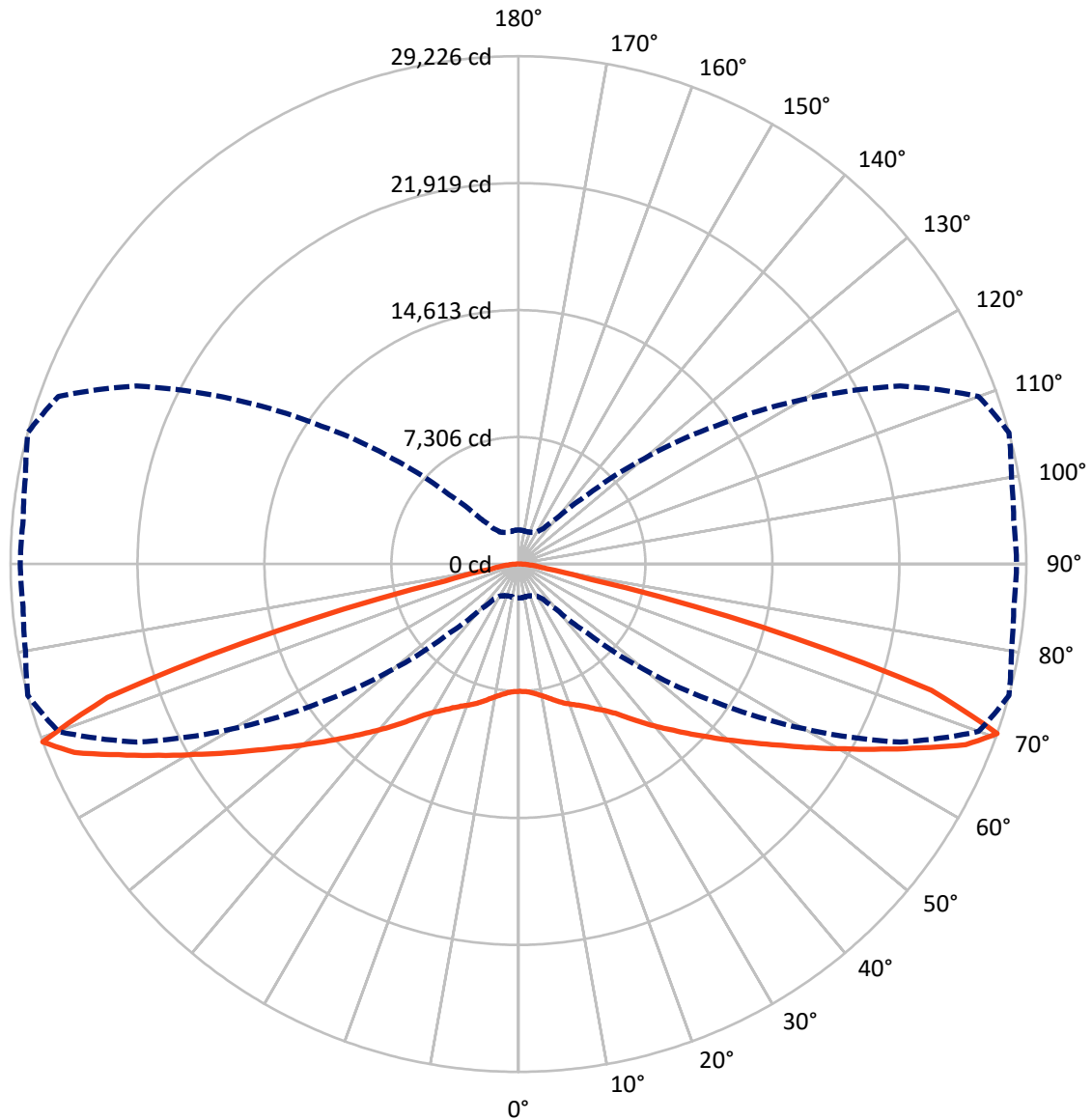


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191828

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-1200

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33033.0	0.0	33033.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33033.0	0.0	33033.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66066.0	0.0	66066.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.8	1.1
10°-20°	2183.8	3.3
20°-30°	4110.3	6.2
30°-40°	7278.5	11.0
40°-50°	12172.0	18.4
50°-60°	16961.7	25.7
60°-70°	15729.3	23.8
70°-80°	6268.6	9.5
80°-90°	658.9	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°	66066.0	100.0
0°-180°	66066.0	100.0



REPORT NUMBER: P191828

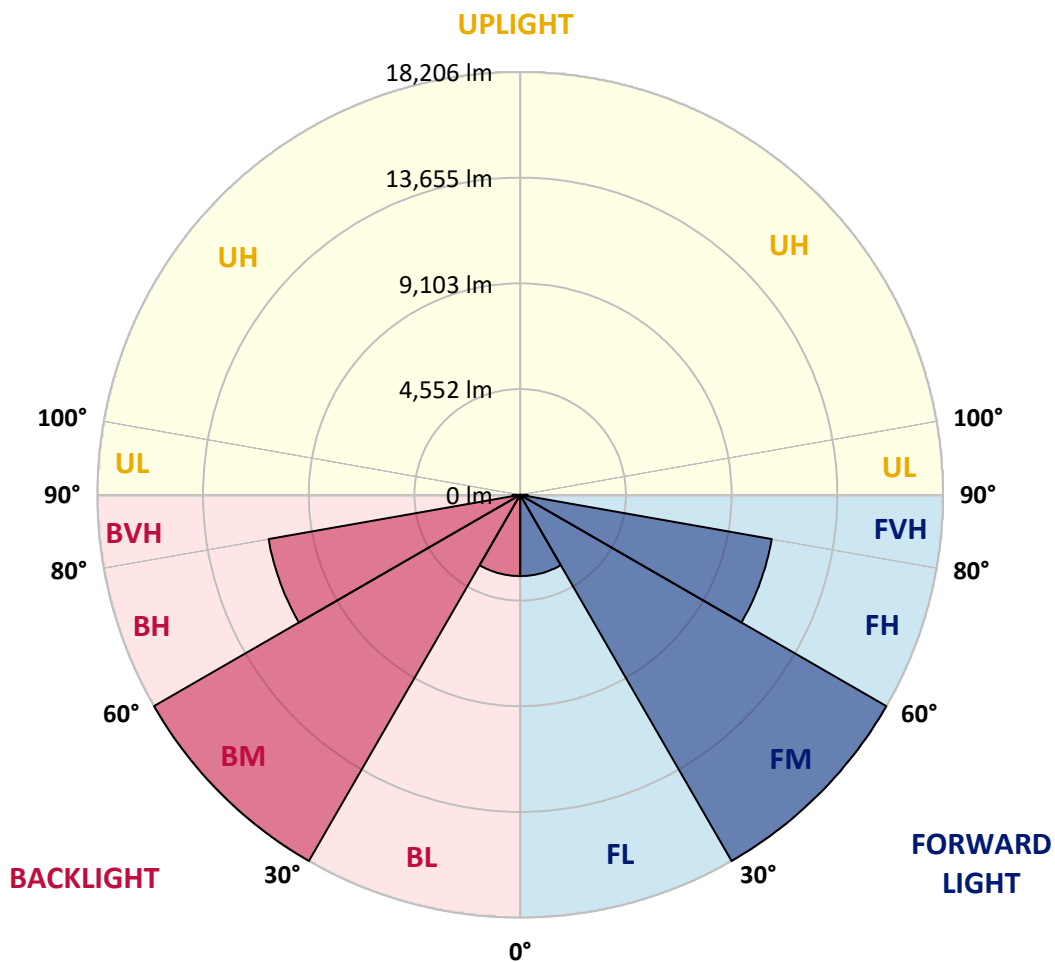
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3498.5	5.3			
FM	(30°-60°)	18206.1	27.6			
FH	(60°-80°)	10998.9	16.6			G4/12000
FVH	(80°-90°)	329.5	0.5			G3/500
BL	(0°-30°)	3498.5	5.3	B4/5000		
BM	(30°-60°)	18206.1	27.6	B5		
BH	(60°-80°)	10998.9	16.6	B5		G5
BVH	(80°-90°)	329.5	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: P191828

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3
2.5°	7315.8	7309.5	7315.8	7312.6	7318.9	7318.9	7325.1	7337.6	7337.6	7347.0	7343.9
5°	7244.0	7240.8	7250.2	7259.6	7268.9	7287.7	7306.4	7334.5	7356.4	7372.0	7387.6
7.5°	7103.4	7103.4	7115.9	7137.8	7159.6	7200.2	7244.0	7300.2	7356.4	7403.2	7443.8
10°	6987.9	6994.2	7009.8	7047.2	7084.7	7147.2	7206.5	7287.7	7365.7	7443.8	7506.2
12.5°	6919.2	6928.6	6956.7	7012.9	7075.3	7159.6	7250.2	7353.2	7440.7	7534.3	7596.8
15°	6941.1	6947.3	6987.9	7056.6	7137.8	7244.0	7365.7	7487.5	7590.5	7690.5	7774.8
17.5°	7062.9	7072.2	7119.1	7197.1	7281.4	7406.3	7537.5	7674.8	7802.9	7915.3	8018.3
20°	7281.4	7290.8	7350.1	7434.4	7534.3	7662.4	7793.5	7937.1	8080.8	8199.4	8314.9
22.5°	7590.5	7606.2	7662.4	7746.7	7859.1	7996.5	8152.6	8305.6	8443.0	8552.2	8655.3
25°	7996.5	8030.8	8083.9	8177.6	8296.2	8421.1	8589.7	8745.8	8877.0	8980.0	9054.9
27.5°	8571.0	8617.8	8658.4	8748.9	8864.5	8983.1	9151.7	9289.1	9414.0	9513.9	9570.1
30°	9332.8	9379.7	9420.3	9507.7	9613.9	9726.3	9885.5	10007.3	10085.3	10163.4	10160.3
32.5°	10257.1	10307.0	10322.6	10416.3	10525.6	10647.4	10791.0	10859.7	10922.1	10931.5	10875.3
35°	11290.6	11315.6	11378.0	11502.9	11627.8	11727.7	11865.1	11899.4	11899.4	11852.6	11727.7
37.5°	12424.0	12439.6	12527.0	12667.6	12795.6	12898.6	12992.3	13061.0	13026.6	12926.7	12717.5
40°	13666.7	13694.8	13819.7	13944.6	14088.2	14185.0	14285.0	14297.4	14263.1	14116.3	13832.2
42.5°	14853.2	14878.2	15003.1	15199.8	15387.2	15521.4	15615.1	15633.8	15524.5	15390.3	15037.4
45°	15874.3	15939.8	16102.2	16333.2	16604.9	16795.4	16923.4	16976.5	16879.7	16704.8	16295.8
47.5°	16683.0	16748.5	16979.6	17254.3	17591.6	17900.7	18113.0	18225.4	18200.4	18069.3	17622.8
50°	17276.2	17338.7	17588.4	17925.7	18319.1	18703.1	19065.3	19333.9	19427.5	19368.2	18959.2
52.5°	17344.9	17447.9	17741.4	18194.2	18706.3	19230.8	19746.0	20201.9	20511.0	20557.8	20255.0
55°	16386.3	16489.4	16895.3	17566.6	18328.5	19184.0	20008.3	20776.4	21385.3	21697.5	21538.3
57.5°	14125.7	14309.9	14737.7	15524.5	16645.5	17925.7	19240.2	20604.7	21844.3	22671.7	22830.9
60°	10825.3	11043.9	11474.8	12311.6	13560.6	15087.4	16842.2	18859.3	21048.1	22909.0	24020.6
62.5°	6944.2	7150.3	7603.0	8330.5	9348.4	11003.3	12886.1	15281.0	18222.3	21160.5	23808.3
65°	3568.9	3681.3	3918.6	4358.9	5152.0	6388.4	8077.6	10466.3	13829.1	17454.2	21282.2
67.5°	2260.6	2282.5	2335.6	2398.0	2601.0	3028.7	3815.6	5304.9	8071.4	11852.6	16333.2
70°	1954.6	1954.6	1929.6	1920.3	1945.3	2004.6	2126.4	2472.9	3406.5	5626.6	9420.3
72.5°	1789.1	1770.4	1726.7	1692.3	1686.1	1686.1	1711.1	1764.2	1914.0	2291.8	3687.5
75°	1648.6	1595.5	1536.2	1495.6	1480.0	1464.4	1461.3	1470.6	1501.9	1561.2	1761.0
77.5°	1476.9	1408.2	1339.5	1298.9	1280.2	1258.3	1239.6	1217.7	1202.1	1220.9	1308.3
80°	1270.8	1192.8	1139.7	1114.7	1096.0	1064.7	1024.1	986.7	952.3	946.1	999.2
82.5°	1024.1	933.6	936.7	946.1	911.7	868.0	824.3	783.7	724.4	693.2	724.4
85°	827.4	780.6	758.7	818.1	768.1	702.5	633.8	562.0	468.4	393.4	427.8
87.5°	321.6	321.6	480.8	740.0	665.1	543.3	465.2	396.5	246.7	190.5	193.6
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°	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3
2.5°	7340.7	7347.0	7343.9	7340.7	7340.7	7337.6	7340.7	7340.7
5°	7397.0	7412.6	7412.6	7418.8	7418.8	7421.9	7425.1	7421.9
7.5°	7481.3	7509.4	7528.1	7549.9	7553.1	7556.2	7562.4	7556.2
10°	7565.6	7621.8	7662.4	7702.9	7721.7	7727.9	7734.2	7734.2
12.5°	7671.7	7749.8	7821.6	7893.4	7927.8	7946.5	7946.5	7959.0
15°	7846.6	7924.6	8008.9	8105.7	8165.1	8196.3	8205.7	8205.7
17.5°	8093.2	8161.9	8233.8	8327.4	8402.4	8443.0	8452.3	8449.2
20°	8380.5	8446.1	8486.7	8546.0	8611.6	8658.4	8670.9	8670.9
22.5°	8708.4	8745.8	8752.1	8770.8	8823.9	8886.3	8914.4	8920.7
25°	9070.6	9079.9	9054.9	9054.9	9089.3	9148.6	9176.7	9179.8
27.5°	9538.9	9492.1	9429.6	9407.8	9429.6	9498.3	9532.7	9545.2
30°	10122.8	10010.4	9866.8	9788.7	9776.2	9866.8	9929.2	9938.6
32.5°	10791.0	10628.6	10438.2	10278.9	10238.3	10294.5	10369.5	10366.3
35°	11584.1	11390.5	11159.4	10956.5	10862.8	10919.0	11025.2	11037.7
37.5°	12498.9	12246.0	11980.6	11724.6	11577.8	11593.4	11705.9	11743.3
40°	13520.0	13192.1	12858.0	12514.6	12305.4	12264.8	12402.1	12424.0
42.5°	14612.8	14191.3	13769.8	13345.1	13076.6	13014.1	13173.4	13164.0
45°	15777.5	15240.4	14747.1	14278.7	13960.2	13866.6	13997.7	13997.7
47.5°	17029.5	16367.6	15780.6	15249.8	14903.2	14768.9	14893.8	14903.2
50°	18356.6	17654.0	16964.0	16373.8	15958.6	15786.8	15949.2	15974.2
52.5°	19677.3	18993.5	18297.2	17622.8	17120.1	16910.9	17098.2	17179.4
55°	21016.8	20345.5	19680.4	19021.6	18425.2	18178.6	18378.4	18481.5
57.5°	22431.3	21809.9	21176.1	20511.0	19936.5	19552.4	19764.8	19902.1
60°	24089.3	23558.5	22899.6	22165.9	21585.1	21194.8	21316.6	21438.4
62.5°	25400.7	25606.8	25047.8	24198.6	23452.3	22952.7	23071.4	23199.4
65°	24766.8	26880.7	27377.2	26518.5	25485.0	24707.5	24657.5	24723.1
67.5°	20701.5	24807.4	27801.8	28619.9	27755.0	26674.6	26474.8	26571.6
70°	13847.8	18962.3	24245.4	28179.6	29225.6	28807.2	28610.5	28669.8
72.5°	6650.7	11043.9	16448.8	21678.8	24863.6	26324.9	26793.3	27021.2
75°	2432.3	4383.8	7927.8	11946.3	14422.3	16695.4	18178.6	18784.3
77.5°	1467.5	1770.4	2532.3	3812.4	4318.3	4833.5	4633.6	4733.5
80°	1086.6	1227.1	1389.5	1561.2	1617.4	1617.4	1555.0	1505.0
82.5°	761.9	852.4	930.5	1024.1	1049.1	1002.3	824.3	655.7
85°	490.2	530.8	565.2	624.5	608.9	580.8	390.3	346.6
87.5°	224.8	256.0	268.5	296.6	284.1	271.6	193.6	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)