

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: P190996

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190996  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32866.4 lumens  
Efficiency: N/A  
Efficacy: 127.9 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): 257  
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

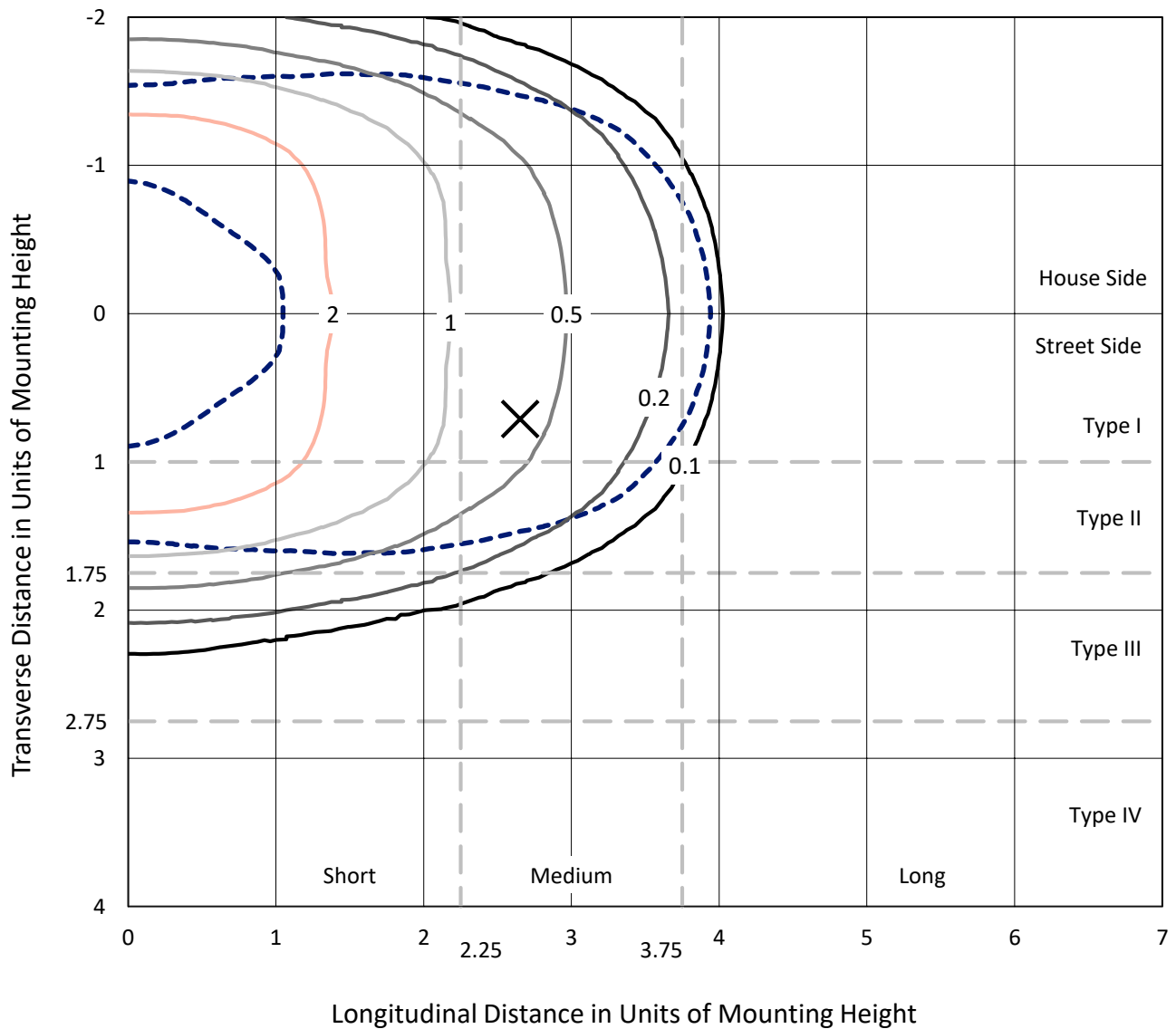


REPORT NUMBER: P190996

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

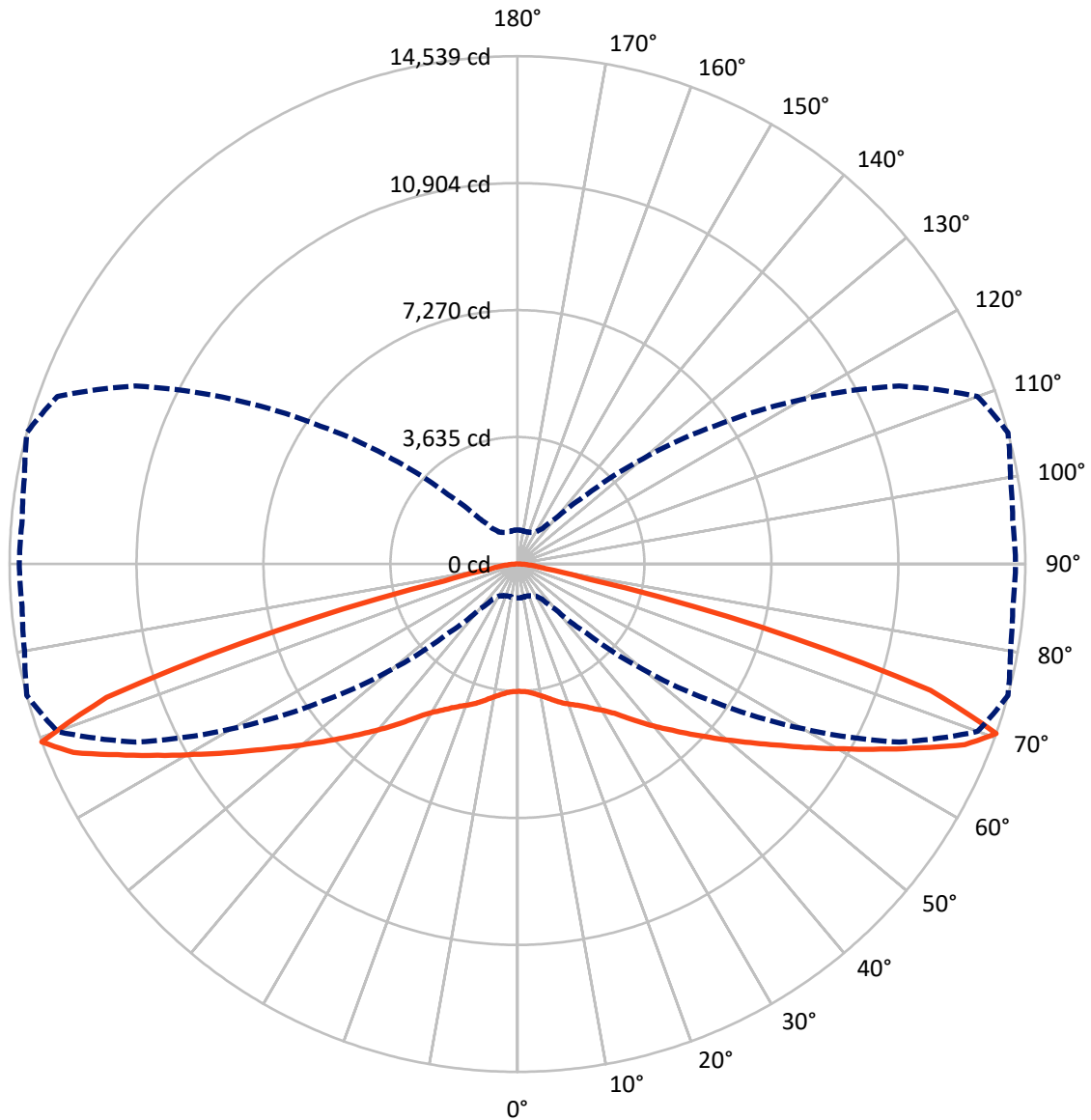


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P190996

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P190996

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16433.2	0.0	16433.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16433.2	0.0	16433.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32866.4	0.0	32866.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.6	1.1
10°-20°	1086.4	3.3
20°-30°	2044.8	6.2
30°-40°	3620.9	11.0
40°-50°	6055.3	18.4
50°-60°	8438.1	25.7
60°-70°	7825.0	23.8
70°-80°	3118.5	9.5
80°-90°	327.8	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°	32866.4	100.0
0°-180°	32866.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P190996

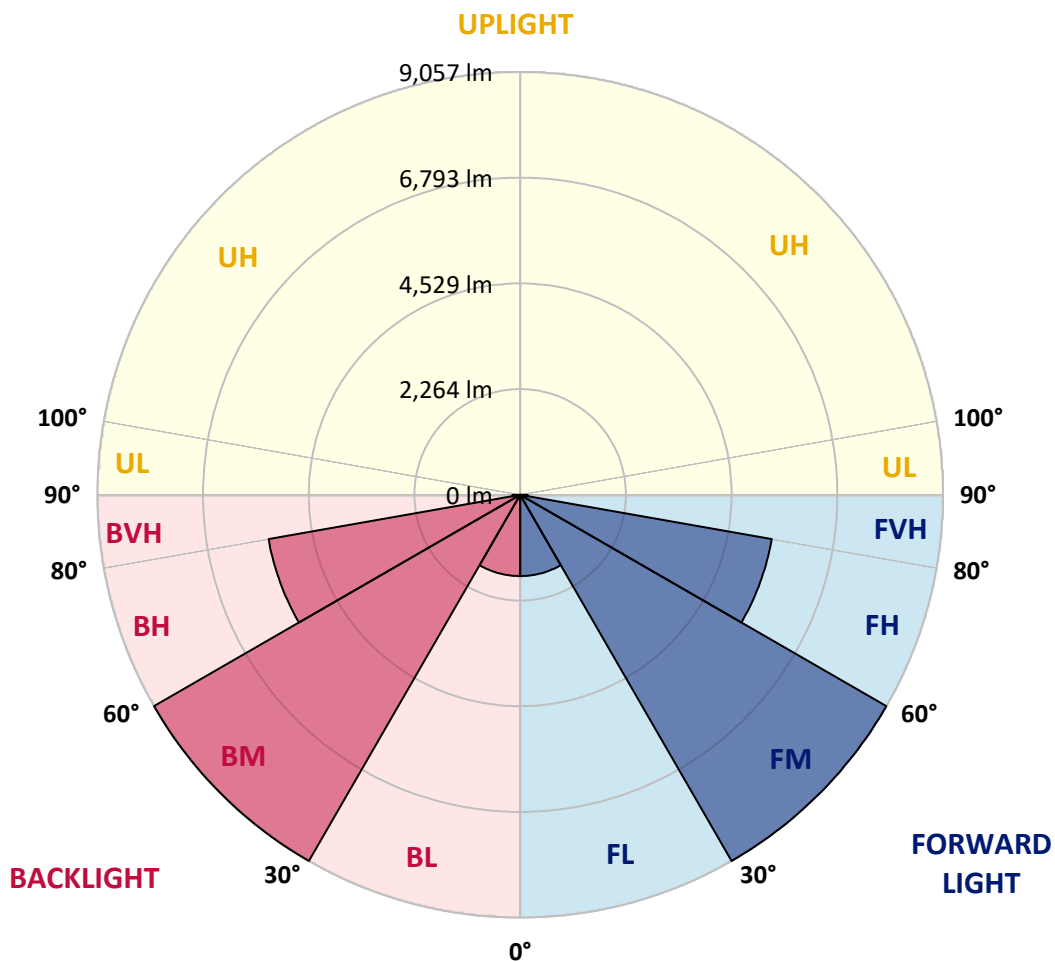
CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1740.4	5.3			
FM	(30°-60°)	9057.2	27.6			
FH	(60°-80°)	5471.7	16.6			G3/7500
FVH	(80°-90°)	163.9	0.5			G2/225
BL	(0°-30°)	1740.4	5.3	B3/2500		
BM	(30°-60°)	9057.2	27.6	B5		
BH	(60°-80°)	5471.7	16.6	B5		G5
BVH	(80°-90°)	163.9	0.5			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 II Medium





REPORT NUMBER: P190996

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3639.5	3636.3	3639.5	3637.9	3641.0	3641.0	3644.1	3650.3	3650.3	3655.0	3653.4
5°	3603.8	3602.1	3606.8	3611.4	3616.1	3625.4	3634.7	3648.8	3659.6	3667.4	3675.2
7.5°	3533.8	3533.8	3540.0	3550.9	3561.8	3582.0	3603.8	3631.7	3659.6	3682.9	3703.1
10°	3476.3	3479.5	3487.2	3505.9	3524.5	3555.6	3585.0	3625.4	3664.3	3703.1	3734.2
12.5°	3442.1	3446.8	3460.8	3488.8	3519.9	3561.8	3606.8	3658.1	3701.5	3748.2	3779.2
15°	3453.1	3456.1	3476.3	3510.5	3550.9	3603.8	3664.3	3724.9	3776.1	3825.8	3867.8
17.5°	3513.6	3518.2	3541.6	3580.4	3622.4	3684.5	3749.7	3818.1	3881.8	3937.6	3988.9
20°	3622.4	3627.0	3656.5	3698.5	3748.2	3811.8	3877.1	3948.6	4020.0	4079.0	4136.5
22.5°	3776.1	3783.9	3811.8	3853.8	3909.7	3978.1	4055.7	4131.8	4200.1	4254.6	4305.8
25°	3978.1	3995.1	4021.5	4068.2	4127.2	4189.3	4273.2	4350.8	4416.1	4467.3	4504.7
27.5°	4263.9	4287.2	4307.3	4352.5	4409.8	4468.9	4552.7	4621.2	4683.3	4733.0	4760.9
30°	4642.9	4666.2	4686.3	4729.8	4782.7	4838.6	4917.8	4978.4	5017.3	5056.0	5054.5
32.5°	5102.7	5127.5	5135.3	5181.9	5236.3	5296.8	5368.2	5402.4	5433.5	5438.2	5410.2
35°	5616.8	5629.2	5660.3	5722.5	5784.6	5834.3	5902.6	5919.7	5919.7	5896.4	5834.3
37.5°	6180.7	6188.4	6231.9	6301.8	6365.5	6416.8	6463.4	6497.6	6480.5	6430.8	6326.6
40°	6798.9	6812.9	6875.0	6937.1	7008.5	7056.7	7106.4	7112.7	7095.6	7022.6	6881.2
42.5°	7389.2	7401.6	7463.8	7561.6	7654.7	7721.5	7768.2	7777.5	7723.1	7656.4	7480.8
45°	7897.1	7929.7	8010.5	8125.4	8260.5	8355.4	8419.0	8445.4	8397.3	8310.2	8106.8
47.5°	8299.4	8332.0	8447.0	8583.7	8751.4	8905.2	9010.9	9066.7	9054.3	8989.1	8767.0
50°	8594.5	8625.6	8749.9	8917.7	9113.4	9304.4	9484.6	9618.2	9664.7	9635.3	9431.8
52.5°	8628.7	8679.9	8826.0	9051.2	9306.0	9566.9	9823.2	10050.0	10203.7	10227.1	10076.4
55°	8151.8	8203.1	8405.1	8739.0	9118.0	9543.6	9953.7	10335.8	10638.7	10794.1	10714.8
57.5°	7027.3	7118.9	7331.7	7723.1	8280.8	8917.7	9571.5	10250.4	10867.0	11278.6	11357.9
60°	5385.3	5494.1	5708.5	6124.7	6746.1	7505.7	8378.6	9382.1	10470.9	11396.7	11949.7
62.5°	3454.6	3557.1	3782.4	4144.3	4650.6	5473.9	6410.5	7602.0	9065.2	10526.9	11844.1
65°	1775.4	1831.4	1949.4	2168.5	2563.0	3178.1	4018.5	5206.7	6879.7	8683.1	10587.4
67.5°	1124.6	1135.5	1161.9	1193.0	1293.9	1506.7	1898.2	2639.1	4015.4	5896.4	8125.4
70°	972.4	972.4	959.9	955.3	967.7	997.3	1057.8	1230.2	1694.7	2799.1	4686.3
72.5°	890.1	880.8	859.0	841.9	838.8	838.8	851.2	877.6	952.2	1140.2	1834.5
75°	820.2	793.7	764.2	744.0	736.3	728.5	726.9	731.6	747.2	776.6	876.1
77.5°	734.7	700.5	666.4	646.2	636.9	625.9	616.6	605.8	598.0	607.3	650.8
80°	632.2	593.4	566.9	554.5	545.2	529.7	509.5	490.8	473.7	470.7	497.1
82.5°	509.5	464.4	466.0	470.7	453.6	431.8	410.1	389.8	360.4	344.8	360.4
85°	411.6	388.3	377.5	406.9	382.1	349.5	315.3	279.6	233.0	195.7	212.8
87.5°	160.0	160.0	239.2	368.2	330.8	270.3	231.5	197.2	122.8	94.7	96.3
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: P190996

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3651.8	3655.0	3653.4	3651.8	3651.8	3650.3	3651.8	3651.8
5°	3679.9	3687.6	3687.6	3690.7	3690.7	3692.2	3693.8	3692.2
7.5°	3721.8	3735.7	3745.0	3756.0	3757.5	3759.0	3762.1	3759.0
10°	3763.7	3791.7	3811.8	3832.1	3841.4	3844.5	3847.6	3847.6
12.5°	3816.5	3855.3	3891.1	3926.8	3943.9	3953.2	3953.2	3959.4
15°	3903.5	3942.4	3984.3	4032.5	4061.9	4077.5	4082.1	4082.1
17.5°	4026.2	4060.4	4096.1	4142.7	4180.0	4200.1	4204.8	4203.3
20°	4169.1	4201.8	4221.9	4251.5	4284.0	4307.3	4313.6	4313.6
22.5°	4332.2	4350.8	4354.0	4363.3	4389.7	4420.8	4434.7	4437.9
25°	4512.4	4517.0	4504.7	4504.7	4521.7	4551.2	4565.2	4566.8
27.5°	4745.4	4722.1	4691.0	4680.2	4691.0	4725.2	4742.3	4748.5
30°	5035.9	4979.9	4908.5	4869.7	4863.4	4908.5	4939.5	4944.2
32.5°	5368.2	5287.5	5192.8	5113.5	5093.4	5121.3	5158.5	5157.0
35°	5762.8	5666.5	5551.6	5450.6	5404.0	5432.0	5484.8	5491.0
37.5°	6217.9	6092.1	5960.1	5832.8	5759.7	5767.5	5823.5	5842.1
40°	6725.9	6562.7	6396.6	6225.7	6121.6	6101.5	6169.8	6180.7
42.5°	7269.6	7059.9	6850.2	6639.0	6505.4	6474.3	6553.4	6548.8
45°	7848.9	7581.8	7336.3	7103.4	6944.9	6898.3	6963.5	6963.5
47.5°	8471.8	8142.5	7850.5	7586.4	7414.0	7347.2	7409.3	7414.0
50°	9132.0	8782.4	8439.2	8145.7	7939.0	7853.6	7934.4	7946.8
52.5°	9789.0	9448.9	9102.4	8767.0	8516.9	8412.7	8506.0	8546.3
55°	10455.4	10121.5	9790.6	9462.8	9166.2	9043.4	9142.8	9194.1
57.5°	11159.1	10849.9	10534.7	10203.7	9917.9	9726.9	9832.5	9900.8
60°	11983.9	11719.8	11392.1	11027.0	10738.1	10544.0	10604.5	10665.1
62.5°	12636.3	12738.8	12460.8	12038.3	11667.0	11418.5	11477.5	11541.2
65°	12320.9	13372.5	13619.6	13192.4	12678.2	12291.5	12266.6	12299.2
67.5°	10298.6	12341.2	13830.8	14237.7	13807.5	13270.0	13170.6	13218.8
70°	6889.0	9433.3	12061.5	14018.7	14539.1	14330.9	14233.1	14262.6
72.5°	3308.5	5494.1	8182.9	10784.8	12369.1	13096.0	13329.0	13442.5
75°	1210.0	2180.8	3943.9	5943.0	7174.8	8305.6	9043.4	9344.8
77.5°	730.1	880.8	1259.8	1896.7	2148.2	2404.5	2305.1	2354.8
80°	540.5	610.5	691.2	776.6	804.7	804.7	773.6	748.7
82.5°	379.0	424.0	462.9	509.5	521.9	498.6	410.1	326.2
85°	243.9	264.0	281.1	310.7	302.9	288.9	194.2	172.5
87.5°	111.8	127.4	133.6	147.6	141.4	135.1	96.3	80.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)