

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: P193356

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193356  
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-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 40893 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 445  
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

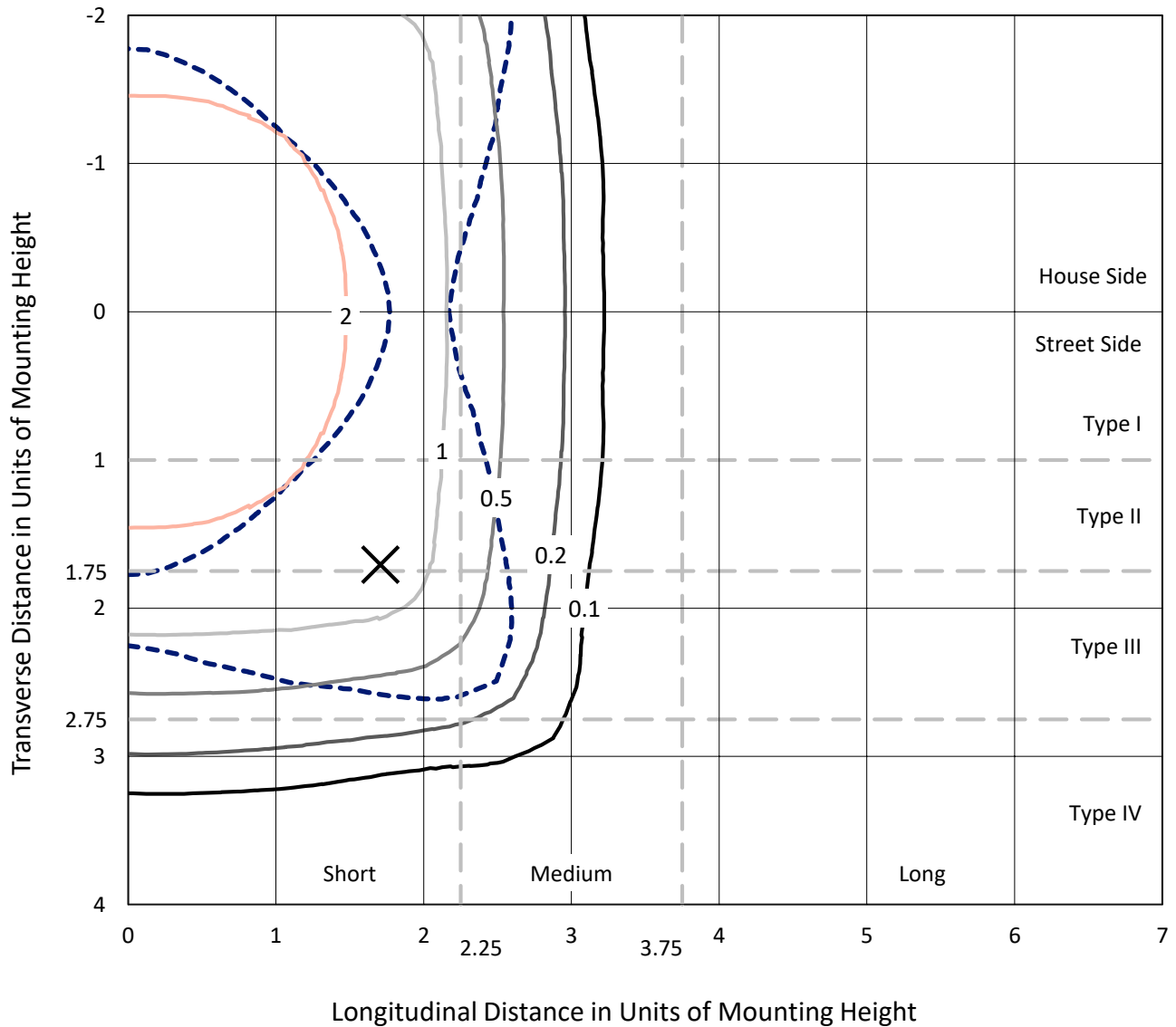


REPORT NUMBER: P193356

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

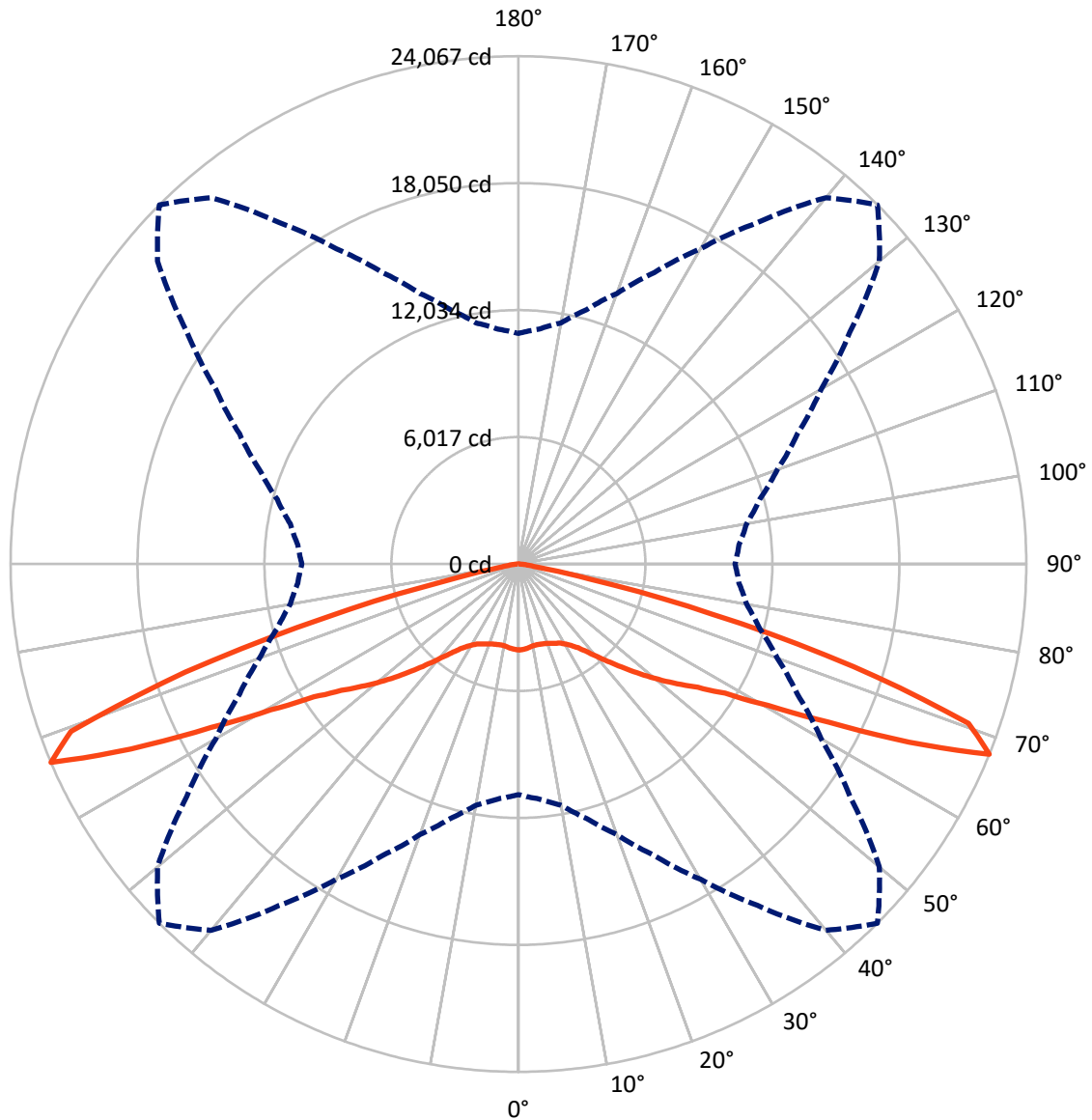
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P193356  
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193356

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20446.5	0.0	20446.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20446.5	0.0	20446.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40893.0	0.0	40893.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.4	0.9
10°-20°	1106.8	2.7
20°-30°	1881.5	4.6
30°-40°	3075.7	7.5
40°-50°	5490.7	13.4
50°-60°	9257.5	22.6
60°-70°	14366.3	35.1
70°-80°	5047.7	12.3
80°-90°	285.3	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°	40893.0	100.0
0°-180°	40893.0	100.0



REPORT NUMBER: P193356

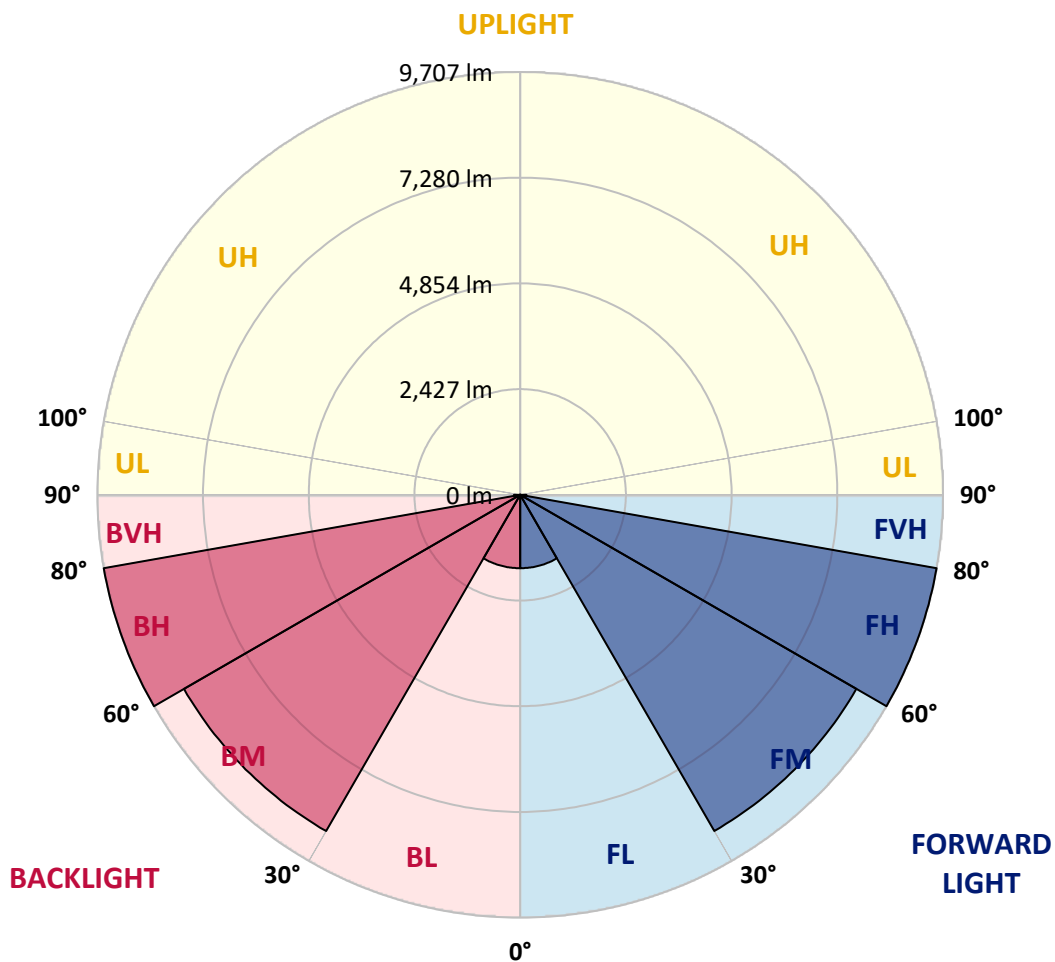
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1684.9	4.1			
FM	(30°-60°)	8912.0	21.8			
FH	(60°-80°)	9707.0	23.7			G4/12000
FVH	(80°-90°)	142.6	0.3			G2/225
BL	(0°-30°)	1684.9	4.1	B3/2500		
BM	(30°-60°)	8912.0	21.8	B5		
BH	(60°-80°)	9707.0	23.7	B5		G4/12000
BVH	(80°-90°)	142.6	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: P193356

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2
2.5°	4060.1	4063.9	4063.9	4063.9	4062.0	4062.0	4058.2	4062.0	4060.1	4054.5	4056.4
5°	4026.3	4030.0	4030.0	4028.1	4033.8	4031.9	4026.3	4030.0	4028.1	4024.4	4026.3
7.5°	3977.4	3983.0	3983.0	3981.1	3986.8	3984.9	3981.1	3983.0	3983.0	3977.4	3977.4
10°	3922.8	3926.6	3926.6	3924.7	3934.1	3934.1	3932.2	3937.9	3939.8	3934.1	3930.4
12.5°	3872.1	3877.7	3877.7	3885.2	3894.6	3898.4	3907.8	3915.3	3922.8	3921.0	3913.4
15°	3842.0	3845.7	3853.3	3862.7	3877.7	3890.9	3905.9	3922.8	3937.9	3941.6	3930.4
17.5°	3823.2	3828.8	3840.1	3853.3	3873.9	3896.5	3919.1	3941.6	3962.3	3969.8	3956.7
20°	3817.5	3821.3	3832.6	3855.1	3883.3	3917.2	3949.2	3975.5	4003.7	4013.1	4003.7
22.5°	3828.8	3836.3	3849.5	3875.8	3913.4	3956.7	3994.3	4030.0	4065.8	4082.7	4069.5
25°	3879.6	3887.1	3904.0	3937.9	3979.3	4024.4	4067.6	4109.0	4141.0	4157.9	4148.5
27.5°	3973.6	3983.0	4003.7	4037.5	4082.7	4131.6	4178.6	4212.4	4238.8	4244.4	4233.1
30°	4114.7	4135.3	4159.8	4197.4	4250.1	4291.4	4338.4	4368.5	4400.5	4400.5	4391.1
32.5°	4334.7	4355.4	4381.7	4417.4	4458.8	4503.9	4545.3	4571.6	4605.5	4607.4	4584.8
35°	4663.8	4673.2	4695.7	4718.3	4755.9	4795.4	4831.1	4848.1	4876.3	4878.2	4857.5
37.5°	5098.2	5100.1	5115.1	5122.6	5156.5	5199.7	5233.6	5244.9	5271.2	5267.4	5246.7
40°	5604.1	5613.5	5619.1	5630.4	5666.1	5707.5	5743.2	5748.9	5777.1	5771.4	5745.1
42.5°	6188.9	6192.7	6224.6	6241.6	6275.4	6296.1	6341.2	6346.9	6380.7	6365.7	6335.6
45°	6845.2	6879.1	6909.2	6943.0	6978.7	7003.2	7038.9	7031.4	7054.0	7031.4	7014.5
47.5°	7535.4	7559.8	7627.5	7680.2	7738.5	7759.2	7809.9	7787.4	7809.9	7778.0	7772.3
50°	8295.1	8338.4	8396.7	8456.9	8518.9	8552.8	8618.6	8590.4	8620.5	8590.4	8573.4
52.5°	9043.6	9054.9	9182.7	9271.1	9357.6	9397.1	9436.6	9423.5	9425.3	9423.5	9406.5
55°	9754.4	9780.8	9908.6	10029.0	10179.4	10290.4	10358.1	10350.6	10333.6	10316.7	10288.5
57.5°	10555.5	10581.9	10728.6	10877.1	11048.3	11206.2	11343.5	11484.5	11539.1	11554.1	11492.1
60°	11638.7	11636.9	11832.4	12013.0	12257.4	12492.5	12793.4	13099.9	13451.6	13615.2	13398.9
62.5°	12740.8	12785.9	13068.0	13387.7	13891.7	14382.5	14937.2	15482.6	16039.2	16492.5	16011.0
65°	12609.1	12782.1	13201.5	13925.5	14856.4	15962.1	17158.2	18423.8	19567.2	20353.2	19471.3
67.5°	10927.9	11174.3	11601.1	12481.2	13645.3	15240.0	17248.4	19751.5	22660.7	24067.3	22324.1
70°	7920.9	8199.2	8646.8	9506.2	10659.0	12174.7	14356.1	17361.3	21212.6	22630.6	20710.5
72.5°	3941.6	4092.1	4368.5	4915.8	5788.3	7018.2	8996.6	11885.1	15292.7	16594.0	14839.4
75°	1339.0	1408.5	1455.5	1634.2	1910.6	2393.9	3377.5	5196.0	7926.5	9502.4	7813.7
77.5°	772.9	774.8	806.8	838.7	885.7	938.4	1070.0	1404.8	2429.7	3450.8	2514.3
80°	500.2	498.3	524.7	549.1	581.1	607.4	614.9	650.7	750.3	889.5	795.5
82.5°	259.5	291.5	349.8	381.8	441.9	453.2	438.2	425.0	449.5	466.4	477.7
85°	142.9	124.1	186.2	240.7	267.0	270.8	270.8	255.8	265.2	259.5	282.1
87.5°	65.8	60.2	73.3	118.5	126.0	107.2	112.8	99.7	71.5	69.6	79.0
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: P193356

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2	4075.2
2.5°	4056.4	4058.2	4058.2	4063.9	4065.8	4069.5	4073.3	4075.2
5°	4024.4	4030.0	4026.3	4031.9	4031.9	4035.7	4035.7	4037.5
7.5°	3977.4	3983.0	3983.0	3983.0	3981.1	3986.8	3986.8	3986.8
10°	3928.5	3932.2	3930.4	3926.6	3922.8	3928.5	3926.6	3924.7
12.5°	3913.4	3904.0	3896.5	3892.7	3885.2	3887.1	3881.5	3881.5
15°	3922.8	3905.9	3892.7	3887.1	3879.6	3875.8	3872.1	3873.9
17.5°	3947.3	3926.6	3909.7	3900.3	3890.9	3885.2	3877.7	3879.6
20°	3990.5	3966.1	3941.6	3922.8	3905.9	3896.5	3890.9	3889.0
22.5°	4054.5	4018.7	3983.0	3954.8	3932.2	3919.1	3913.4	3909.7
25°	4127.8	4088.3	4047.0	4015.0	3992.4	3975.5	3964.2	3964.2
27.5°	4220.0	4188.0	4150.4	4112.8	4092.1	4075.2	4067.6	4063.9
30°	4374.2	4344.1	4314.0	4278.3	4251.9	4235.0	4221.8	4210.6
32.5°	4571.6	4547.2	4522.7	4496.4	4472.0	4449.4	4428.7	4419.3
35°	4849.9	4831.1	4814.2	4784.1	4774.7	4761.6	4750.3	4740.9
37.5°	5233.6	5226.1	5226.1	5194.1	5186.6	5180.9	5169.6	5171.5
40°	5737.6	5745.1	5735.7	5724.4	5718.8	5703.7	5703.7	5716.9
42.5°	6333.7	6339.3	6360.0	6341.2	6361.9	6343.1	6331.8	6341.2
45°	7025.7	7046.4	7087.8	7069.0	7082.2	7050.2	7010.7	7012.6
47.5°	7802.4	7821.2	7838.1	7825.0	7826.9	7774.2	7721.6	7708.4
50°	8609.2	8616.7	8626.1	8607.3	8611.1	8552.8	8492.6	8494.5
52.5°	9406.5	9442.3	9479.9	9429.1	9417.8	9352.0	9267.4	9233.5
55°	10318.6	10369.4	10326.1	10237.7	10149.3	10061.0	9950.0	9931.2
57.5°	11443.2	11356.7	11221.3	11053.9	10931.7	10807.5	10694.7	10647.7
60°	13007.8	12682.5	12438.0	12189.7	12033.7	11881.3	11732.8	11710.2
62.5°	15219.3	14657.0	14170.0	13656.6	13237.2	12910.0	12648.6	12575.3
65°	17991.3	16661.7	15508.9	14433.2	13498.6	12793.4	12349.6	12154.0
67.5°	19183.5	16558.3	14581.8	13054.8	11832.4	10978.7	10499.1	10260.3
70°	16857.3	13731.8	11582.3	10053.4	8940.2	8030.0	7595.6	7339.8
72.5°	11597.4	8735.2	6907.3	5637.9	4748.4	3986.8	3685.9	3663.3
75°	5207.3	3448.9	2377.0	1831.7	1542.1	1340.8	1278.8	1231.8
77.5°	1457.4	1077.6	961.0	898.9	838.7	769.1	742.8	748.5
80°	709.0	669.5	643.1	603.7	549.1	490.8	464.5	475.8
82.5°	470.1	464.5	481.4	453.2	374.2	317.8	267.0	244.5
85°	285.8	289.6	295.2	297.1	252.0	176.8	120.4	135.4
87.5°	112.8	129.8	141.0	146.7	137.3	84.6	67.7	69.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)