

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: P191823

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191823
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-05-LED-E1-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 33360 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 320
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

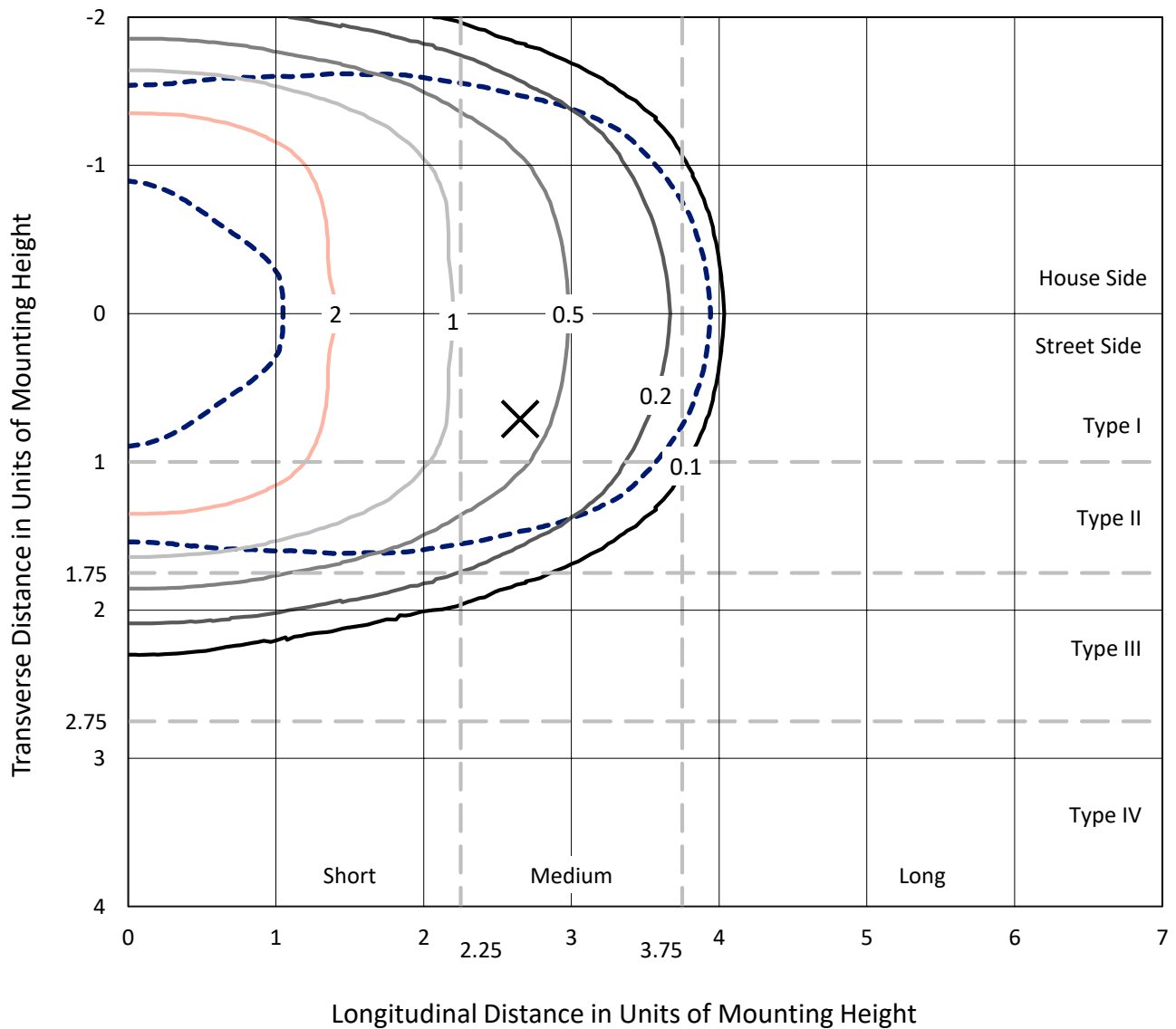


REPORT NUMBER: P191823

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

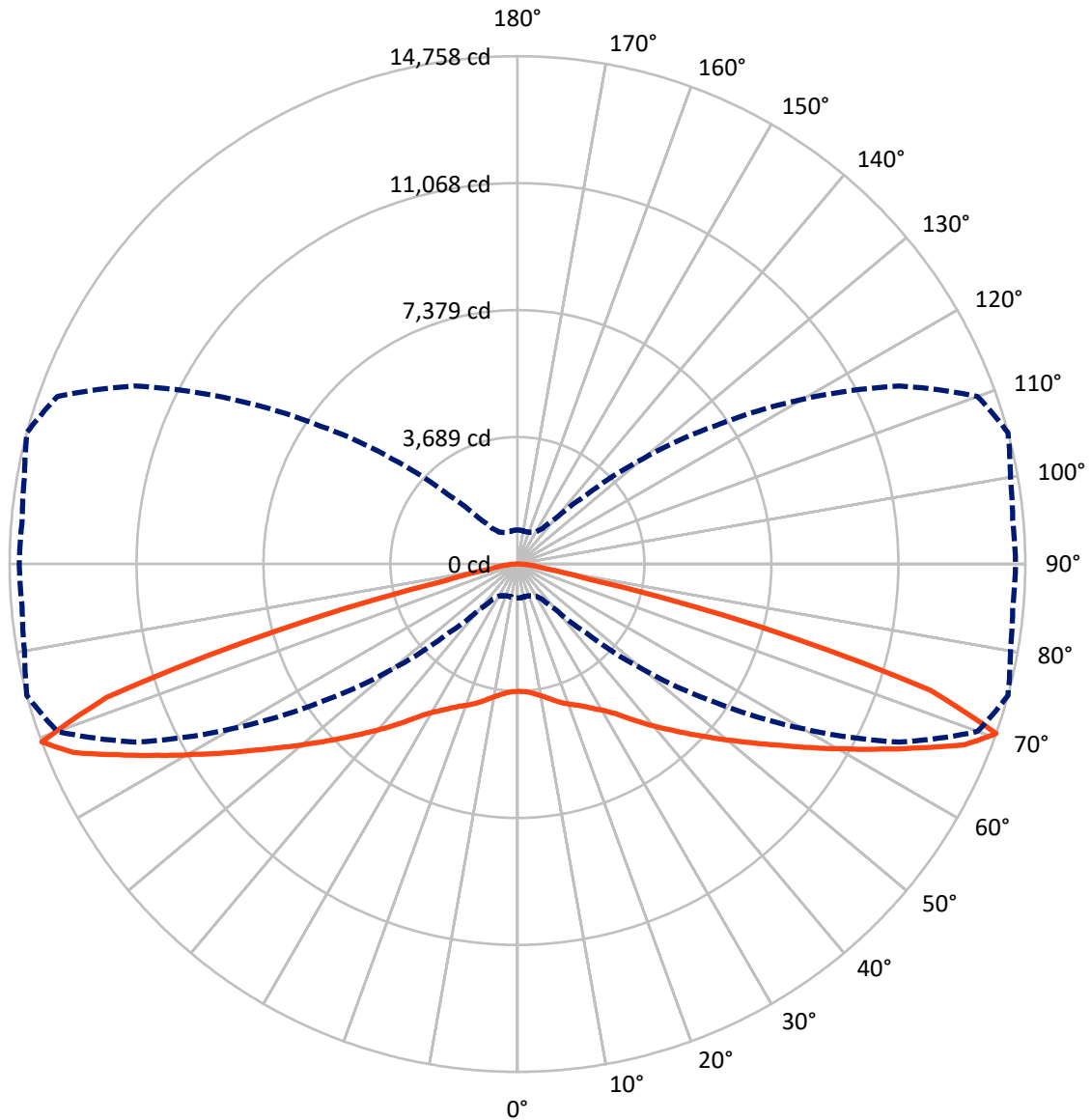


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191823

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7050-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191823

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16680.0	0.0	16680.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16680.0	0.0	16680.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33360.0	0.0	33360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.1
10°-20°	1102.7	3.3
20°-30°	2075.5	6.2
30°-40°	3675.3	11.0
40°-50°	6146.3	18.4
50°-60°	8564.8	25.7
60°-70°	7942.5	23.8
70°-80°	3165.3	9.5
80°-90°	332.7	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°	33360.0	100.0
0°-180°	33360.0	100.0



REPORT NUMBER: P191823

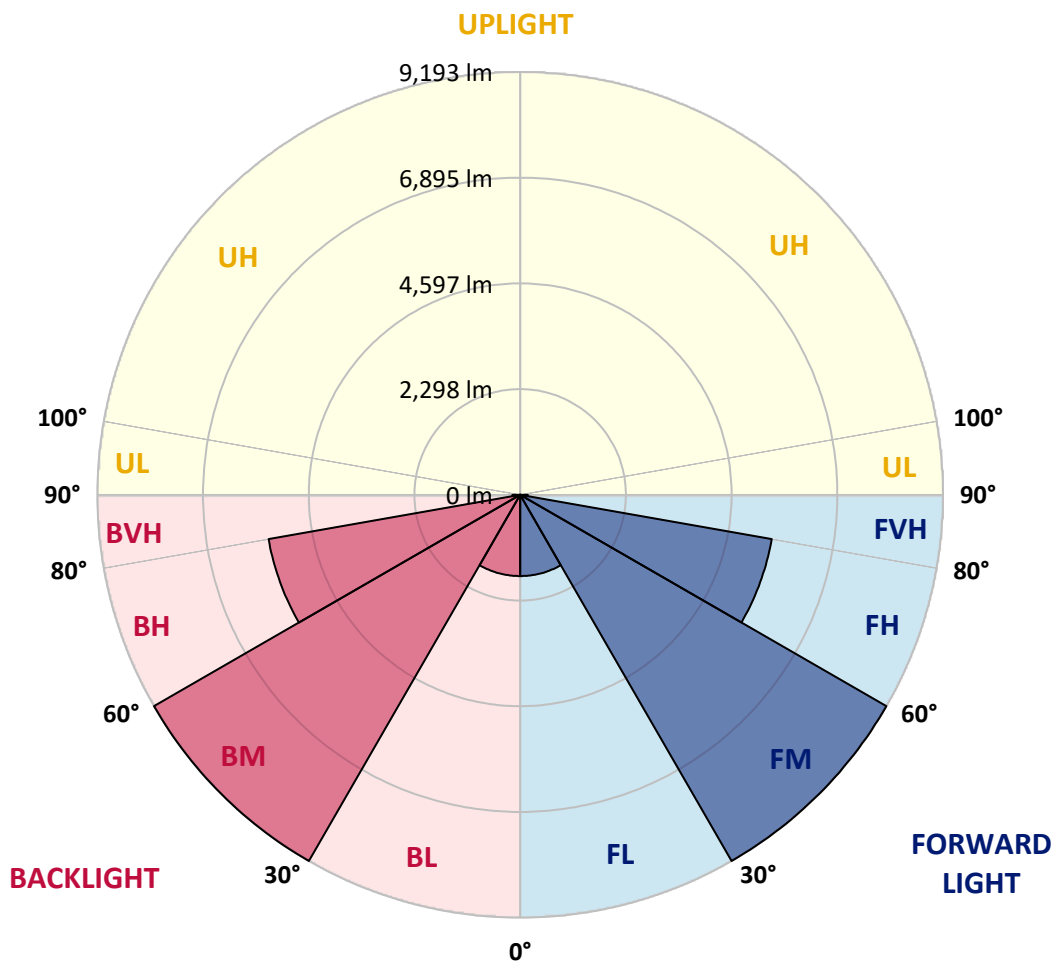
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.6	5.3			
FM	(30°-60°)	9193.2	27.6			
FH	(60°-80°)	5553.9	16.6			G3/7500
FVH	(80°-90°)	166.4	0.5			G2/225
BL	(0°-30°)	1766.6	5.3	B3/2500		
BM	(30°-60°)	9193.2	27.6	B5		
BH	(60°-80°)	5553.9	16.6	B5		G5
BVH	(80°-90°)	166.4	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: P191823

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3694.1	3690.9	3694.1	3692.5	3695.7	3695.7	3698.8	3705.1	3705.1	3709.9	3708.3
5°	3657.8	3656.3	3661.0	3665.7	3670.4	3679.9	3689.4	3703.6	3714.6	3722.5	3730.4
7.5°	3586.9	3586.9	3593.2	3604.2	3615.3	3635.8	3657.8	3686.2	3714.6	3738.2	3758.7
10°	3528.5	3531.7	3539.6	3558.5	3577.4	3609.0	3638.9	3679.9	3719.3	3758.7	3790.3
12.5°	3493.9	3498.6	3512.8	3541.2	3572.7	3615.3	3661.0	3713.0	3757.2	3804.5	3836.0
15°	3504.9	3508.0	3528.5	3563.2	3604.2	3657.8	3719.3	3780.8	3832.8	3883.3	3925.9
17.5°	3566.4	3571.1	3594.8	3634.2	3676.8	3739.8	3806.0	3875.4	3940.1	3996.8	4048.8
20°	3676.8	3681.5	3711.4	3754.0	3804.5	3869.1	3935.3	4007.8	4080.4	4140.3	4198.6
22.5°	3832.8	3840.7	3869.1	3911.7	3968.4	4037.8	4116.6	4193.9	4263.3	4318.4	4370.5
25°	4037.8	4055.1	4082.0	4129.3	4189.2	4252.2	4337.4	4416.2	4482.4	4534.5	4572.3
27.5°	4327.9	4351.6	4372.1	4417.8	4476.1	4536.0	4621.2	4690.5	4753.6	4804.1	4832.4
30°	4712.6	4736.3	4756.8	4800.9	4854.5	4911.3	4991.7	5053.2	5092.6	5132.0	5130.4
32.5°	5179.3	5204.5	5212.4	5259.7	5314.9	5376.4	5448.9	5483.6	5515.1	5519.9	5491.5
35°	5701.2	5713.8	5745.3	5808.4	5871.5	5921.9	5991.3	6008.6	6008.6	5985.0	5921.9
37.5°	6273.5	6281.4	6325.5	6396.5	6461.1	6513.1	6560.4	6595.1	6577.8	6527.3	6421.7
40°	6901.0	6915.2	6978.3	7041.3	7113.9	7162.7	7213.2	7219.5	7202.1	7128.0	6984.6
42.5°	7500.1	7512.7	7575.8	7675.1	7769.7	7837.5	7884.8	7894.3	7839.1	7771.3	7593.2
45°	8015.7	8048.8	8130.8	8247.5	8384.6	8480.8	8545.5	8572.3	8523.4	8435.1	8228.5
47.5°	8424.0	8457.2	8573.8	8712.6	8882.9	9038.9	9146.2	9202.9	9190.3	9124.1	8898.6
50°	8723.6	8755.1	8881.3	9051.6	9250.2	9444.1	9627.0	9762.6	9809.9	9780.0	9573.4
52.5°	8758.3	8810.3	8958.5	9187.1	9445.7	9710.6	9970.7	10200.9	10357.0	10380.7	10227.7
55°	8274.3	8326.3	8531.3	8870.2	9254.9	9686.9	10103.2	10491.0	10798.5	10956.2	10875.7
57.5°	7132.8	7225.8	7441.8	7839.1	8405.1	9051.6	9715.3	10404.3	11030.3	11448.1	11528.5
60°	5466.3	5576.6	5794.2	6216.7	6847.4	7618.4	8504.5	9523.0	10628.2	11567.9	12129.2
62.5°	3506.5	3610.5	3839.1	4206.5	4720.5	5556.1	6506.8	7716.1	9201.3	10685.0	12022.0
65°	1802.1	1858.9	1978.7	2201.0	2601.5	3225.8	4078.8	5284.9	6983.0	8813.5	10746.5
67.5°	1141.5	1152.5	1179.3	1210.9	1313.4	1529.4	1926.7	2678.7	4075.6	5985.0	8247.5
70°	987.0	987.0	974.4	969.6	982.3	1012.2	1073.7	1248.7	1720.1	2841.1	4756.8
72.5°	903.4	894.0	871.9	854.5	851.4	851.4	864.0	890.8	966.5	1157.3	1862.0
75°	832.5	805.7	775.7	755.2	747.3	739.4	737.9	742.6	758.4	788.3	889.2
77.5°	745.8	711.1	676.4	655.9	646.4	635.4	625.9	614.9	607.0	616.5	660.6
80°	641.7	602.3	575.5	562.9	553.4	537.6	517.1	498.2	480.9	477.7	504.5
82.5°	517.1	471.4	473.0	477.7	460.4	438.3	416.2	395.7	365.8	350.0	365.8
85°	417.8	394.2	383.1	413.1	387.9	354.7	320.1	283.8	236.5	198.7	216.0
87.5°	162.4	162.4	242.8	373.7	335.8	274.3	234.9	200.2	124.6	96.2	97.8
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: P191823

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3706.7	3709.9	3708.3	3706.7	3706.7	3705.1	3706.7	3706.7
5°	3735.1	3743.0	3743.0	3746.1	3746.1	3747.7	3749.3	3747.7
7.5°	3777.7	3791.8	3801.3	3812.3	3813.9	3815.5	3818.7	3815.5
10°	3820.2	3848.6	3869.1	3889.6	3899.1	3902.2	3905.4	3905.4
12.5°	3873.8	3913.2	3949.5	3985.8	4003.1	4012.6	4012.6	4018.9
15°	3962.1	4001.5	4044.1	4093.0	4122.9	4138.7	4143.4	4143.4
17.5°	4086.7	4121.4	4157.6	4204.9	4242.8	4263.3	4268.0	4266.4
20°	4231.7	4264.8	4285.3	4315.3	4348.4	4372.1	4378.4	4378.4
22.5°	4397.3	4416.2	4419.4	4428.8	4455.6	4487.2	4501.3	4504.5
25°	4580.2	4584.9	4572.3	4572.3	4589.6	4619.6	4633.8	4635.4
27.5°	4816.7	4793.0	4761.5	4750.5	4761.5	4796.2	4813.5	4819.8
30°	5111.5	5054.7	4982.2	4942.8	4936.5	4982.2	5013.8	5018.5
32.5°	5448.9	5366.9	5270.7	5190.3	5169.8	5198.2	5236.1	5234.5
35°	5849.4	5751.6	5635.0	5532.5	5485.2	5513.6	5567.2	5573.5
37.5°	6311.3	6183.6	6049.6	5920.3	5846.2	5854.1	5910.9	5929.8
40°	6826.9	6661.4	6492.7	6319.2	6213.6	6193.1	6262.5	6273.5
42.5°	7378.7	7165.9	6953.0	6738.6	6603.0	6571.5	6651.9	6647.2
45°	7966.8	7695.6	7446.5	7210.0	7049.2	7001.9	7068.1	7068.1
47.5°	8599.1	8264.8	7968.4	7700.4	7525.4	7457.6	7520.6	7525.4
50°	9269.1	8914.4	8565.9	8268.0	8058.3	7971.6	8053.5	8066.1
52.5°	9936.1	9590.8	9239.2	8898.6	8644.8	8539.1	8633.7	8674.7
55°	10612.4	10273.5	9937.6	9605.0	9303.8	9179.3	9280.2	9332.2
57.5°	11326.7	11012.9	10692.9	10357.0	10066.9	9873.0	9980.2	10049.6
60°	12163.9	11895.8	11563.2	11192.6	10899.4	10702.3	10763.8	10825.3
62.5°	12826.1	12930.1	12647.9	12219.1	11842.2	11590.0	11649.9	11714.5
65°	12506.0	13573.4	13824.1	13390.5	12868.6	12476.0	12450.8	12483.9
67.5°	10453.2	12526.5	14038.5	14451.6	14014.9	13469.3	13368.4	13417.3
70°	6992.5	9575.0	12242.7	14229.3	14757.5	14546.2	14446.9	14476.8
72.5°	3358.3	5576.6	8305.8	10946.7	12554.9	13292.7	13529.2	13644.3
75°	1228.2	2213.6	4003.1	6032.3	7282.6	8430.4	9179.3	9485.1
77.5°	741.0	894.0	1278.7	1925.1	2180.5	2440.7	2339.8	2390.2
80°	548.7	619.6	701.6	788.3	816.7	816.7	785.2	759.9
82.5°	384.7	430.4	469.8	517.1	529.8	506.1	416.2	331.1
85°	247.5	268.0	285.4	315.3	307.4	293.3	197.1	175.0
87.5°	113.5	129.3	135.6	149.8	143.5	137.2	97.8	82.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)