

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: P269461

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269461
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-07-LED-E1-RW-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37390.5 lumens
Efficiency: N/A
Efficacy: 95.6 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

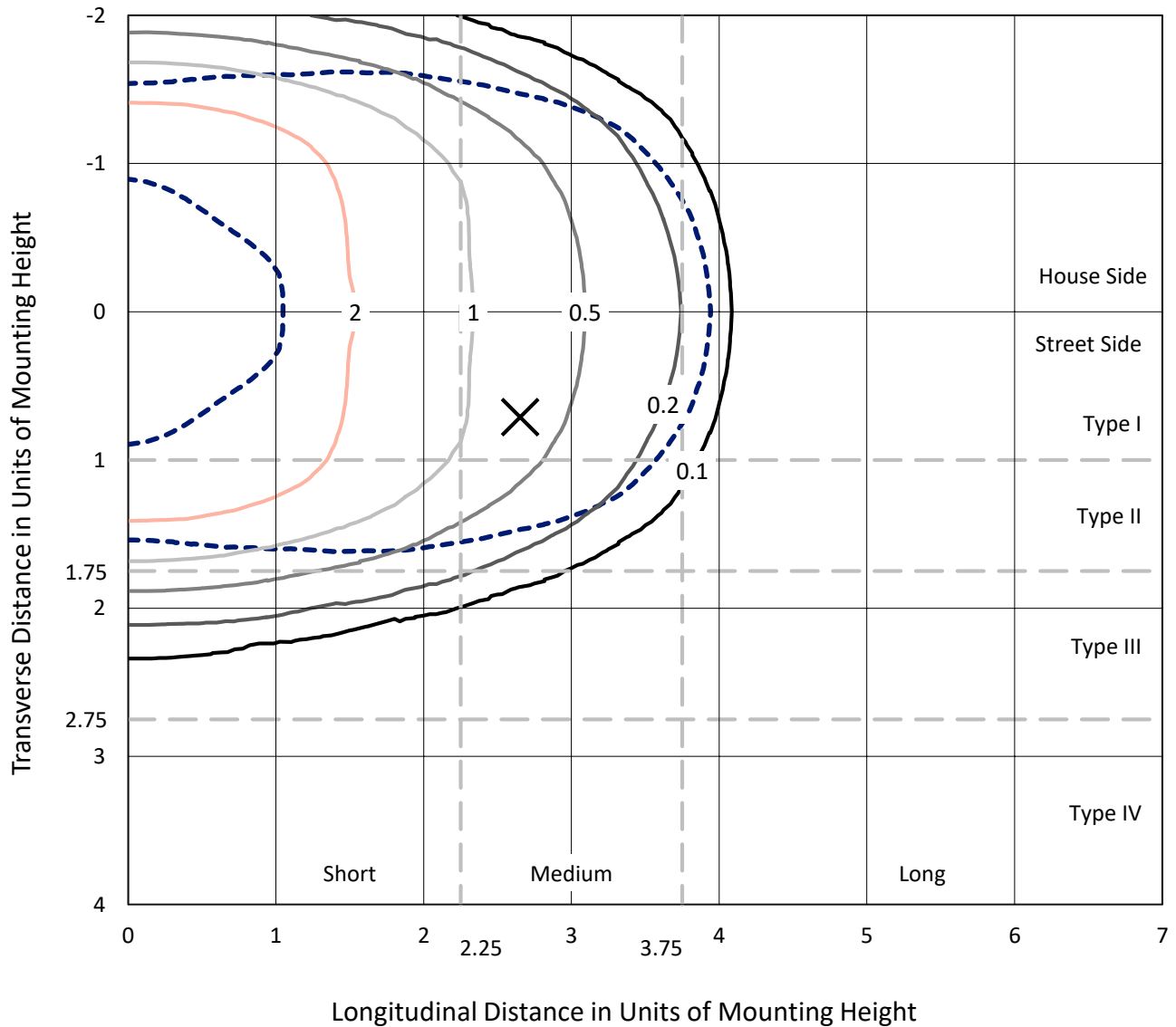
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

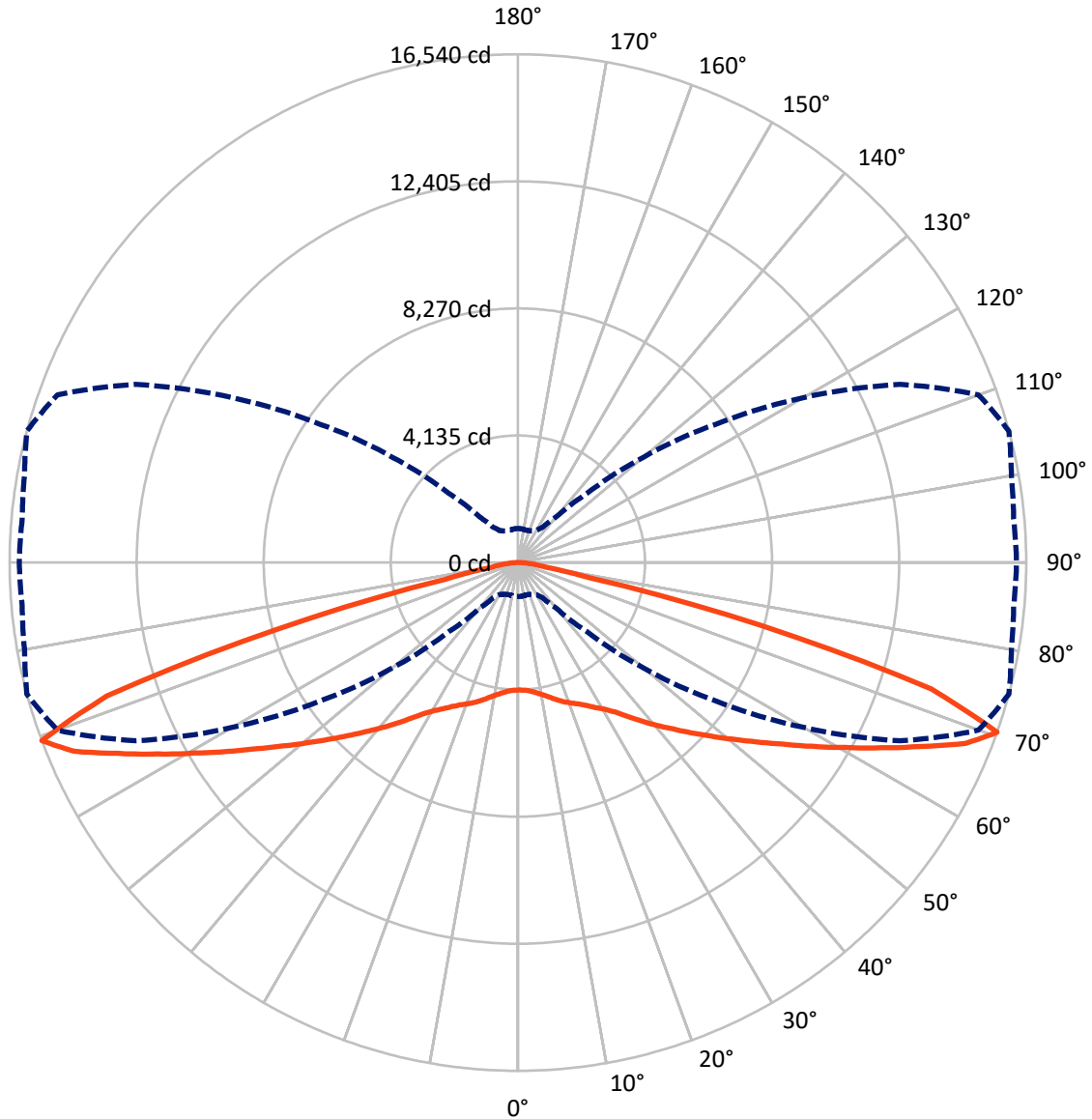
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18695.3	0.0	18695.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18695.3	0.0	18695.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	37390.5	0.0	37390.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.8	1.1
10°-20°	1236.0	3.3
20°-30°	2326.2	6.2
30°-40°	4119.3	11.0
40°-50°	6888.8	18.4
50°-60°	9599.6	25.7
60°-70°	8902.1	23.8
70°-80°	3547.8	9.5
80°-90°	372.9	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°	37390.5	100.0
0°-180°	37390.5	100.0

Coefficient of Utilization



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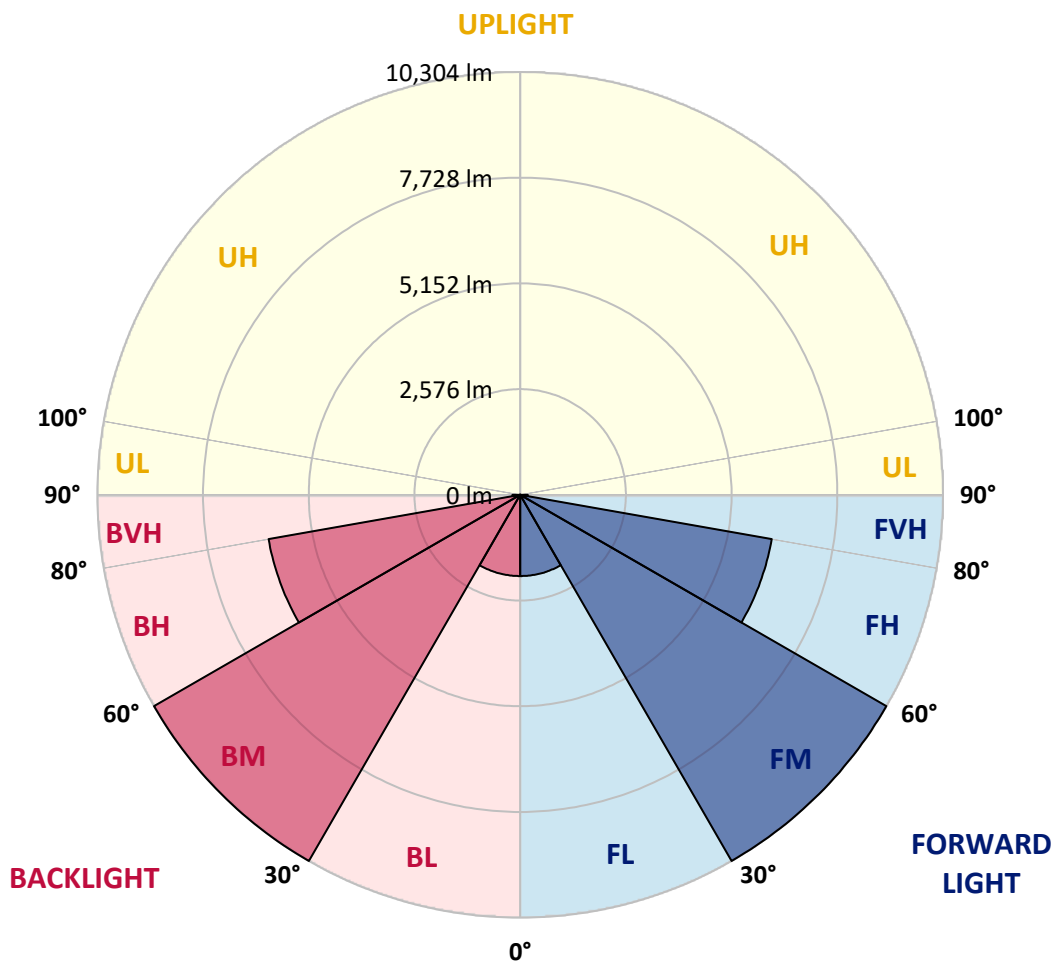
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.0	5.3			
FM	(30°-60°)	10303.9	27.6			
FH	(60°-80°)	6224.9	16.6			G3/7500
FVH	(80°-90°)	186.5	0.5			G2/225
BL	(0°-30°)	1980.0	5.3	B3/2500		
BM	(30°-60°)	10303.9	27.6	B5		
BH	(60°-80°)	6224.9	16.6	B5		G5
BVH	(80°-90°)	186.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5
2.5°	4140.4	4136.9	4140.4	4138.6	4142.2	4142.2	4145.7	4152.8	4152.8	4158.1	4156.3
5°	4099.8	4098.0	4103.3	4108.6	4113.9	4124.5	4135.1	4151.0	4163.4	4172.2	4181.0
7.5°	4020.3	4020.3	4027.3	4039.7	4052.1	4075.0	4099.8	4131.6	4163.4	4189.9	4213.0
10°	3954.9	3958.4	3967.3	3988.5	4009.7	4045.0	4078.6	4124.5	4168.7	4213.0	4248.3
12.5°	3916.0	3921.3	3937.2	3969.0	4004.4	4052.1	4103.3	4161.6	4211.2	4264.2	4299.5
15°	3928.4	3931.9	3954.9	3993.8	4039.7	4099.8	4168.7	4237.7	4296.0	4352.5	4400.2
17.5°	3997.3	4002.6	4029.1	4073.3	4121.0	4191.6	4266.0	4343.7	4416.1	4479.7	4538.0
20°	4121.0	4126.3	4159.8	4207.7	4264.2	4336.6	4410.8	4492.1	4573.5	4640.6	4706.0
22.5°	4296.0	4304.8	4336.6	4384.3	4447.9	4525.7	4614.1	4700.7	4778.4	4840.2	4898.5
25°	4525.7	4545.1	4575.2	4628.2	4695.4	4766.0	4861.4	4949.8	5024.0	5082.3	5124.7
27.5°	4850.8	4877.3	4900.3	4951.5	5016.9	5084.0	5179.4	5257.2	5327.9	5384.5	5416.3
30°	5281.9	5308.5	5331.5	5380.9	5441.0	5504.6	5594.7	5663.6	5707.9	5752.0	5750.3
32.5°	5805.0	5833.4	5842.1	5895.1	5957.0	6025.9	6107.2	6146.2	6181.4	6186.7	6154.9
35°	6390.0	6404.1	6439.5	6510.1	6580.9	6637.3	6715.1	6734.6	6734.6	6708.1	6637.3
37.5°	7031.5	7040.2	7089.8	7169.4	7241.7	7300.0	7353.0	7392.0	7372.5	7315.9	7197.6
40°	7734.8	7750.7	7821.4	7892.1	7973.4	8028.2	8084.7	8091.8	8072.3	7989.3	7828.4
42.5°	8406.2	8420.4	8491.0	8602.4	8708.4	8784.4	8837.4	8848.0	8786.2	8710.2	8510.5
45°	8984.2	9021.3	9113.1	9243.9	9397.7	9505.4	9577.9	9607.9	9553.1	9454.2	9222.7
47.5°	9441.8	9478.9	9609.7	9765.3	9956.0	10131.1	10251.2	10314.8	10300.7	10226.5	9973.7
50°	9777.6	9812.9	9954.3	10145.2	10367.8	10585.2	10790.3	10942.2	10995.2	10961.6	10730.1
52.5°	9816.5	9874.8	10040.9	10297.1	10587.0	10883.9	11175.5	11433.4	11608.3	11634.8	11463.5
55°	9273.9	9332.3	9562.0	9941.9	10373.1	10857.4	11323.9	11758.5	12103.1	12279.9	12189.7
57.5°	7994.6	8098.8	8340.9	8786.2	9420.6	10145.2	10889.2	11661.3	12363.0	12831.2	12921.3
60°	6126.7	6250.3	6494.2	6967.9	7674.7	8538.7	9531.9	10673.5	11912.3	12965.4	13594.6
62.5°	3930.2	4046.8	4303.1	4714.8	5290.7	6227.4	7293.0	8648.4	10313.0	11975.9	13474.4
65°	2019.8	2083.4	2217.7	2466.9	2915.8	3615.6	4571.7	5923.5	7826.7	9878.3	12044.8
67.5°	1279.4	1291.9	1321.9	1357.2	1472.1	1714.1	2159.4	3002.3	4568.1	6708.1	9243.9
70°	1106.3	1106.3	1092.1	1086.8	1101.0	1134.5	1203.4	1399.6	1927.9	3184.4	5331.5
72.5°	1012.6	1002.0	977.3	957.9	954.3	954.3	968.5	998.5	1083.3	1297.2	2087.0
75°	933.1	902.9	869.4	846.5	837.6	828.7	827.0	832.3	849.9	883.6	996.7
77.5°	835.9	796.9	758.1	735.2	724.6	712.1	701.5	689.2	680.3	690.9	740.5
80°	719.3	675.0	645.1	630.9	620.3	602.7	579.6	558.4	539.0	535.4	565.6
82.5°	579.6	528.4	530.1	535.4	515.9	491.3	466.5	443.6	409.9	392.3	409.9
85°	468.2	441.7	429.4	462.9	434.7	397.6	358.8	318.1	265.1	222.7	242.2
87.5°	181.9	181.9	272.1	418.8	376.4	307.5	263.4	224.4	139.5	107.7	109.6
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°	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5	4147.5
2.5°	4154.5	4158.1	4156.3	4154.5	4154.5	4152.8	4154.5	4154.5
5°	4186.3	4195.2	4195.2	4198.7	4198.7	4200.5	4202.2	4200.5
7.5°	4234.2	4250.1	4260.7	4273.0	4274.8	4276.6	4280.1	4276.6
10°	4281.9	4313.7	4336.6	4359.6	4370.2	4373.7	4377.3	4377.3
12.5°	4341.9	4386.1	4426.7	4467.4	4486.8	4497.4	4497.4	4504.5
15°	4440.9	4485.0	4532.7	4587.6	4621.2	4638.8	4644.1	4644.1
17.5°	4580.5	4619.4	4660.0	4713.0	4755.4	4778.4	4783.7	4781.9
20°	4743.1	4780.2	4803.1	4836.7	4873.8	4900.3	4907.4	4907.4
22.5°	4928.6	4949.8	4953.3	4963.9	4993.9	5029.3	5045.2	5048.7
25°	5133.5	5138.8	5124.7	5124.7	5144.1	5177.7	5193.6	5195.3
27.5°	5398.6	5372.1	5336.8	5324.4	5336.8	5375.6	5395.1	5402.1
30°	5729.1	5665.4	5584.1	5539.9	5532.9	5584.1	5619.4	5624.7
32.5°	6107.2	6015.3	5907.6	5817.5	5794.4	5826.2	5868.6	5866.9
35°	6556.1	6446.5	6315.8	6200.9	6147.9	6179.7	6239.7	6246.9
37.5°	7073.9	6930.8	6780.5	6635.6	6552.5	6561.4	6625.0	6646.2
40°	7651.8	7466.2	7277.1	7082.6	6964.3	6941.4	7019.0	7031.5
42.5°	8270.2	8031.7	7793.1	7552.8	7400.7	7365.5	7455.6	7450.3
45°	8929.3	8625.4	8346.2	8081.2	7901.0	7847.9	7922.2	7922.2
47.5°	9637.9	9263.3	8931.0	8630.7	8434.5	8358.5	8429.2	8434.5
50°	10389.0	9991.4	9600.8	9266.8	9031.9	8934.6	9026.6	9040.7
52.5°	11136.5	10749.5	10355.4	9973.7	9689.2	9570.8	9676.8	9722.9
55°	11894.6	11514.7	11138.3	10765.4	10428.0	10288.3	10401.4	10459.8
57.5°	12695.1	12343.5	11984.7	11608.3	11283.3	11065.9	11186.1	11263.8
60°	13633.4	13333.1	12960.1	12544.9	12216.2	11995.3	12064.2	12133.1
62.5°	14375.7	14492.4	14176.1	13695.3	13272.9	12990.3	13057.5	13129.8
65°	14017.0	15213.3	15494.2	15008.3	14423.4	13983.3	13955.1	13992.2
67.5°	11716.1	14039.9	15734.6	16197.6	15708.1	15096.6	14983.5	15038.3
70°	7837.3	10731.8	13721.9	15948.5	16540.4	16303.7	16192.3	16225.8
72.5°	3764.0	6250.3	9309.2	12269.3	14071.7	14898.7	15163.7	15292.8
75°	1376.7	2481.1	4486.8	6761.1	8162.4	9448.9	10288.3	10631.1
77.5°	830.6	1002.0	1433.2	2157.6	2444.0	2735.5	2622.4	2678.9
80°	615.0	694.5	786.3	883.6	915.5	915.5	880.0	851.8
82.5°	431.1	482.4	526.5	579.6	593.8	567.3	466.5	371.1
85°	277.4	300.5	319.8	353.5	344.6	328.7	221.0	196.2
87.5°	127.2	144.8	152.0	167.9	160.7	153.7	109.6	91.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)