

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: P191814

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191814
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-06-LED-E1-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36392 lumens
Efficiency: N/A
Efficacy: 109.3 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

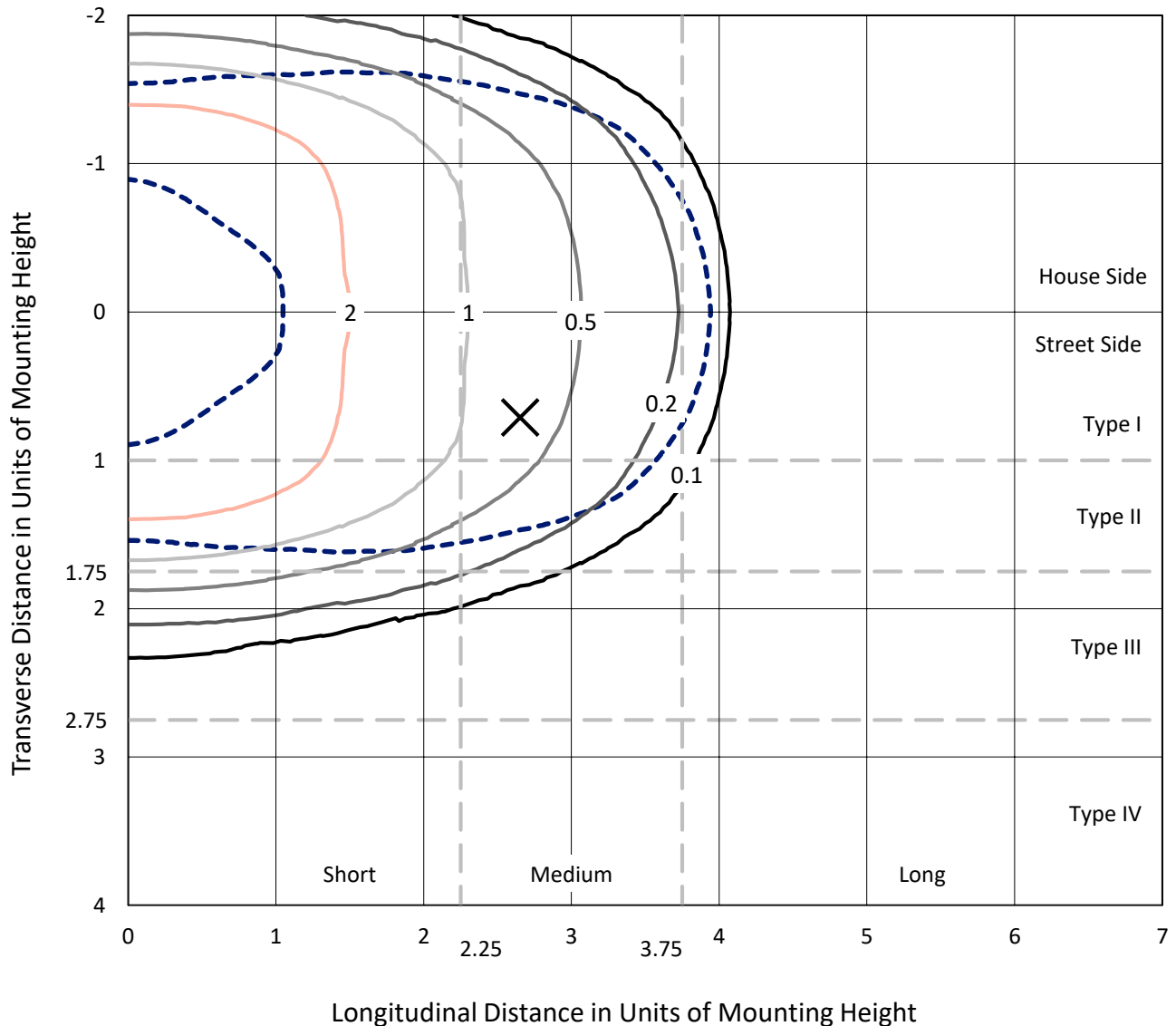
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

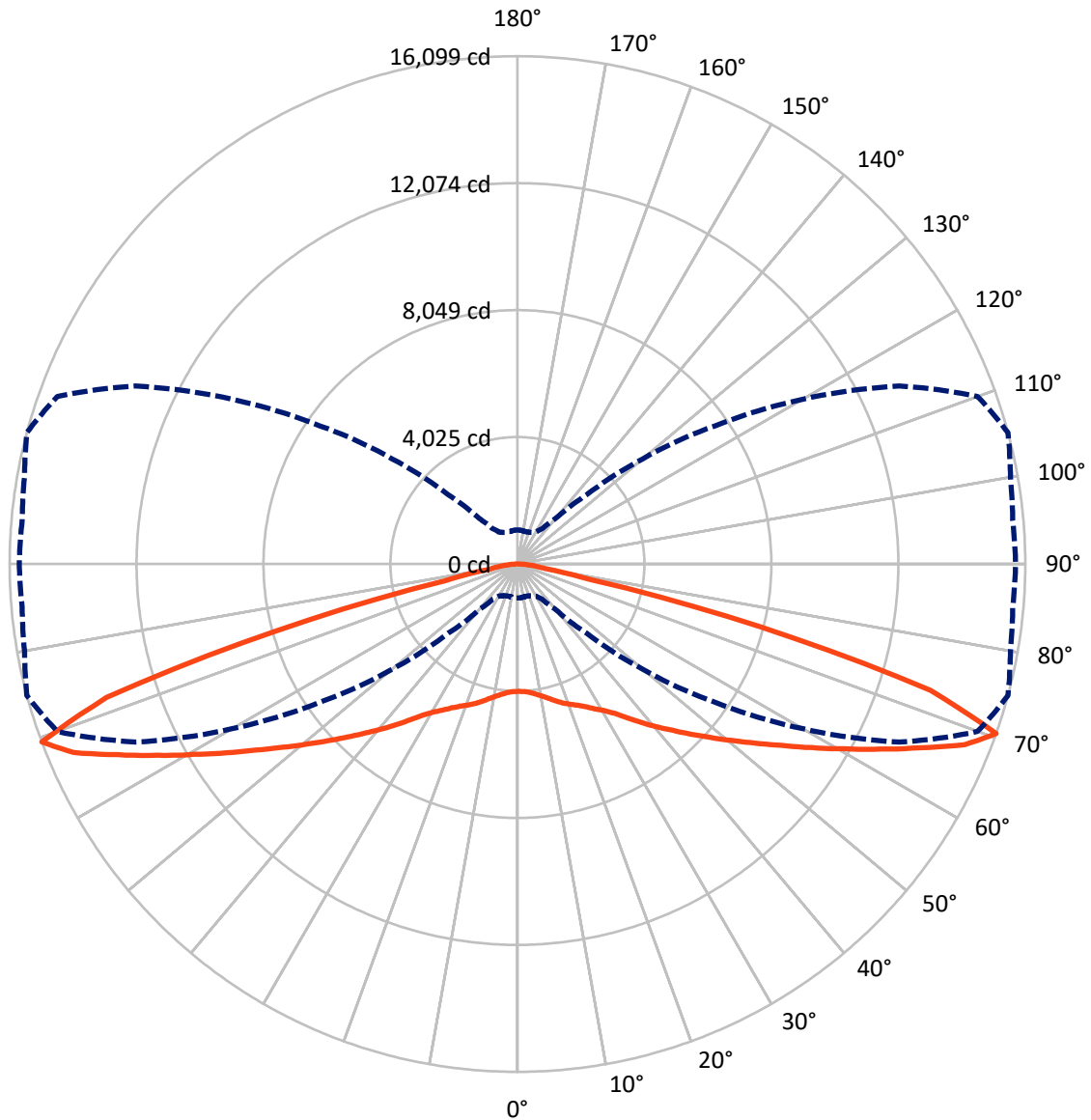
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	18196.0	0.0	18196.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18196.0	0.0	18196.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36392.0	0.0	36392.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	1.1
10°-20°	1202.9	3.3
20°-30°	2264.1	6.2
30°-40°	4009.3	11.0
40°-50°	6704.9	18.4
50°-60°	9343.3	25.7
60°-70°	8664.4	23.8
70°-80°	3453.0	9.5
80°-90°	363.0	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°	36392.0	100.0
0°-180°	36392.0	100.0



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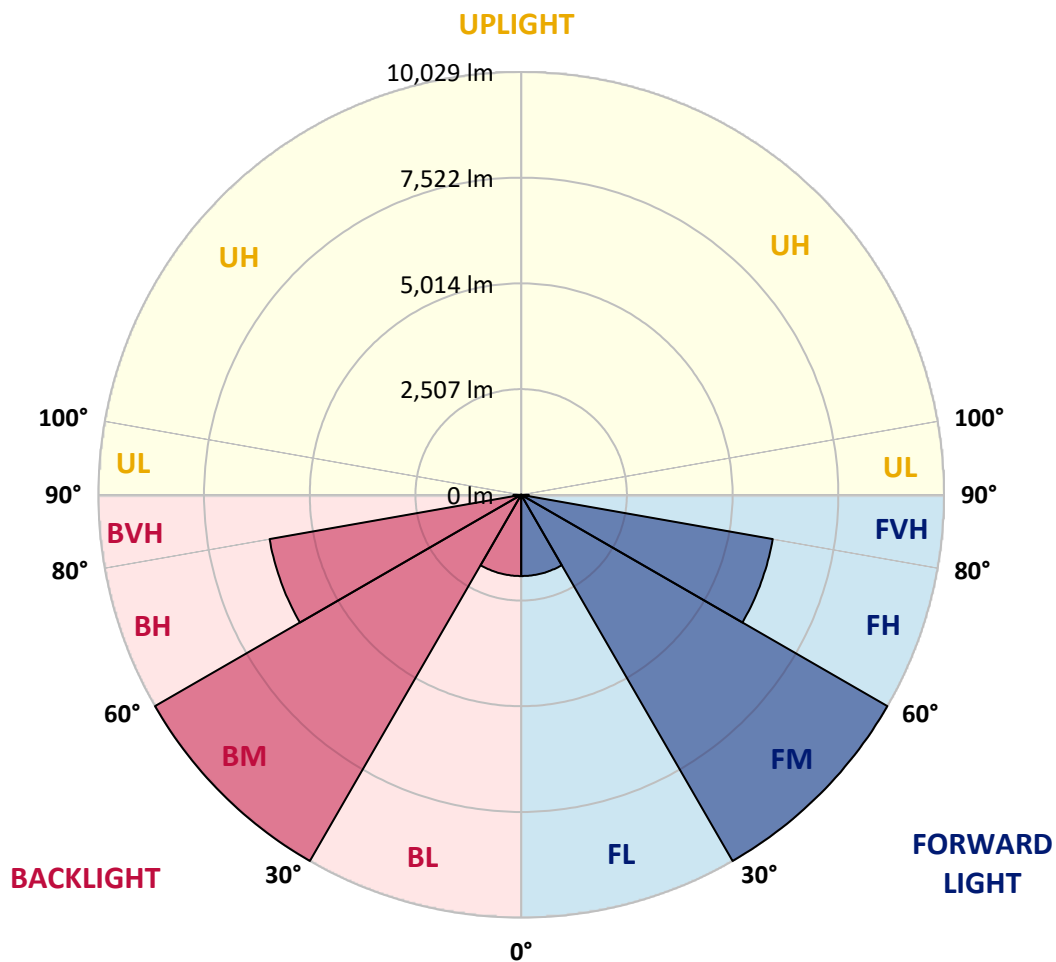
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1927.1	5.3			
FM	(30°-60°)	10028.7	27.6			
FH	(60°-80°)	6058.7	16.6			G3/7500
FVH	(80°-90°)	181.5	0.5			G2/225
BL	(0°-30°)	1927.1	5.3	B3/2500		
BM	(30°-60°)	10028.7	27.6	B5		
BH	(60°-80°)	6058.7	16.6	B5		G5
BVH	(80°-90°)	181.5	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°	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7
2.5°	4029.8	4026.4	4029.8	4028.1	4031.6	4031.6	4035.0	4041.9	4041.9	4047.0	4045.3
5°	3990.3	3988.6	3993.7	3998.9	4004.0	4014.4	4024.7	4040.2	4052.2	4060.8	4069.4
7.5°	3912.9	3912.9	3919.8	3931.8	3943.8	3966.2	3990.3	4021.2	4052.2	4078.0	4100.4
10°	3849.2	3852.7	3861.3	3881.9	3902.6	3937.0	3969.6	4014.4	4057.4	4100.4	4134.8
12.5°	3811.4	3816.6	3832.0	3863.0	3897.4	3943.8	3993.7	4050.5	4098.6	4150.2	4184.6
15°	3823.4	3826.9	3849.2	3887.1	3931.8	3990.3	4057.4	4124.4	4181.2	4236.2	4282.7
17.5°	3890.5	3895.7	3921.5	3964.5	4010.9	4079.7	4152.0	4227.6	4298.2	4360.1	4416.8
20°	4010.9	4016.1	4048.8	4095.2	4150.2	4220.8	4293.0	4372.1	4451.2	4516.6	4580.2
22.5°	4181.2	4189.8	4220.8	4267.2	4329.1	4404.8	4490.8	4575.1	4650.7	4710.9	4767.7
25°	4404.8	4423.7	4452.9	4504.5	4569.9	4638.7	4731.6	4817.6	4889.8	4946.6	4987.9
27.5°	4721.3	4747.1	4769.4	4819.3	4882.9	4948.3	5041.2	5116.8	5185.6	5240.7	5271.6
30°	5140.9	5166.7	5189.1	5237.2	5295.7	5357.6	5445.4	5512.4	5555.4	5598.4	5596.7
32.5°	5650.0	5677.6	5686.2	5737.8	5797.9	5865.0	5944.1	5982.0	6016.4	6021.5	5990.6
35°	6219.3	6233.1	6267.5	6336.3	6405.1	6460.1	6535.8	6554.7	6554.7	6528.9	6460.1
37.5°	6843.7	6852.3	6900.4	6977.8	7048.4	7105.1	7156.7	7194.5	7175.6	7120.6	7005.4
40°	7528.2	7543.7	7612.5	7681.3	7760.4	7813.7	7868.8	7875.6	7856.7	7775.9	7619.4
42.5°	8181.8	8195.6	8264.4	8372.7	8475.9	8549.9	8601.5	8611.8	8551.6	8477.6	8283.3
45°	8744.2	8780.3	8869.8	8997.1	9146.7	9251.6	9322.1	9351.4	9298.0	9201.7	8976.4
47.5°	9189.7	9225.8	9353.1	9504.4	9690.2	9860.5	9977.4	10039.3	10025.6	9953.3	9707.4
50°	9516.5	9550.9	9688.5	9874.2	10090.9	10302.5	10502.0	10649.9	10701.5	10668.8	10443.5
52.5°	9554.3	9611.1	9772.8	10022.1	10304.2	10593.2	10877.0	11128.1	11298.3	11324.1	11157.3
55°	9026.3	9083.1	9306.6	9676.4	10096.1	10567.4	11021.4	11444.5	11779.9	11951.9	11864.2
57.5°	7781.1	7882.5	8118.2	8551.6	9169.0	9874.2	10598.3	11349.9	12032.8	12488.6	12576.3
60°	5963.1	6083.5	6320.8	6781.8	7469.7	8310.8	9277.4	10388.5	11594.2	12619.3	13231.6
62.5°	3825.2	3938.7	4188.1	4588.8	5149.5	6061.1	7098.2	8417.4	10037.6	11656.1	13114.6
65°	1965.9	2027.8	2158.5	2401.0	2837.9	3519.0	4449.5	5765.3	7617.7	9614.5	11723.2
67.5°	1245.2	1257.3	1286.5	1320.9	1432.7	1668.4	2101.8	2922.2	4446.1	6528.9	8997.1
70°	1076.7	1076.7	1062.9	1057.8	1071.5	1104.2	1171.3	1362.2	1876.5	3099.3	5189.1
72.5°	985.5	975.2	951.1	932.2	928.8	928.8	942.5	971.8	1054.3	1262.4	2031.3
75°	908.1	878.9	846.2	823.9	815.3	806.7	804.9	810.1	827.3	860.0	970.1
77.5°	813.5	775.7	737.9	715.5	705.2	693.1	682.8	670.8	662.2	672.5	720.7
80°	700.0	657.0	627.8	614.0	603.7	586.5	564.1	543.5	524.6	521.1	550.4
82.5°	564.1	514.3	516.0	521.1	502.2	478.1	454.1	431.7	399.0	381.8	399.0
85°	455.8	430.0	417.9	450.6	423.1	387.0	349.1	309.6	258.0	216.7	235.6
87.5°	177.2	177.2	264.9	407.6	366.3	299.3	256.3	218.4	135.9	104.9	106.6
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°	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7	4036.7
2.5°	4043.6	4047.0	4045.3	4043.6	4043.6	4041.9	4043.6	4043.6
5°	4074.6	4083.2	4083.2	4086.6	4086.6	4088.3	4090.0	4088.3
7.5°	4121.0	4136.5	4146.8	4158.8	4160.6	4162.3	4165.7	4162.3
10°	4167.4	4198.4	4220.8	4243.1	4253.4	4256.9	4260.3	4260.3
12.5°	4225.9	4268.9	4308.5	4348.0	4367.0	4377.3	4377.3	4384.2
15°	4322.2	4365.2	4411.7	4465.0	4497.7	4514.9	4520.0	4520.0
17.5°	4458.1	4495.9	4535.5	4587.1	4628.4	4650.7	4655.9	4654.2
20°	4616.3	4652.5	4674.8	4707.5	4743.6	4769.4	4776.3	4776.3
22.5°	4796.9	4817.6	4821.0	4831.3	4860.6	4895.0	4910.5	4913.9
25°	4996.5	5001.6	4987.9	4987.9	5006.8	5039.5	5054.9	5056.7
27.5°	5254.4	5228.6	5194.2	5182.2	5194.2	5232.1	5251.0	5257.9
30°	5576.1	5514.2	5435.0	5392.0	5385.2	5435.0	5469.4	5474.6
32.5°	5944.1	5854.7	5749.8	5662.1	5639.7	5670.7	5712.0	5710.2
35°	6381.0	6274.4	6147.1	6035.3	5983.7	6014.7	6073.1	6080.0
37.5°	6885.0	6745.6	6599.4	6458.4	6377.6	6386.2	6448.1	6468.7
40°	7447.4	7266.8	7082.8	6893.6	6778.3	6756.0	6831.6	6843.7
42.5°	8049.4	7817.2	7585.0	7351.1	7203.1	7168.7	7256.5	7251.3
45°	8690.9	8395.1	8123.3	7865.3	7689.9	7638.3	7710.5	7710.5
47.5°	9380.6	9016.0	8692.6	8400.2	8209.3	8135.4	8204.2	8209.3
50°	10111.6	9724.6	9344.5	9019.4	8790.7	8696.1	8785.5	8799.3
52.5°	10839.1	10462.5	10078.9	9707.4	9430.5	9315.2	9418.4	9463.2
55°	11577.0	11207.2	10840.8	10477.9	10149.4	10013.5	10123.6	10180.4
57.5°	12356.1	12013.8	11664.7	11298.3	10981.9	10770.3	10887.3	10963.0
60°	13269.4	12977.0	12614.1	12209.9	11890.0	11675.0	11742.1	11809.2
62.5°	13991.8	14105.3	13797.4	13329.6	12918.5	12643.3	12708.7	12779.2
65°	13642.6	14807.0	15080.5	14607.5	14038.2	13610.0	13582.4	13618.6
67.5°	11403.3	13665.0	15314.4	15765.1	15288.6	14693.5	14583.4	14636.8
70°	7628.0	10445.3	13355.4	15522.5	16098.7	15868.3	15759.9	15792.6
72.5°	3663.5	6083.5	9060.7	11941.6	13696.0	14500.9	14758.9	14884.4
75°	1339.8	2414.8	4367.0	6580.5	7944.4	9196.6	10013.5	10347.2
77.5°	808.4	975.2	1394.9	2100.1	2378.7	2662.5	2552.4	2607.4
80°	598.5	675.9	765.4	860.0	890.9	890.9	856.5	829.0
82.5°	419.7	469.5	512.5	564.1	577.9	552.1	454.1	361.2
85°	270.0	292.4	311.3	344.0	335.4	319.9	215.0	190.9
87.5°	123.8	141.0	147.9	163.4	156.5	149.6	106.6	89.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)