

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: P191798

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191798  
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-10-LED-E1-RW-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39680 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

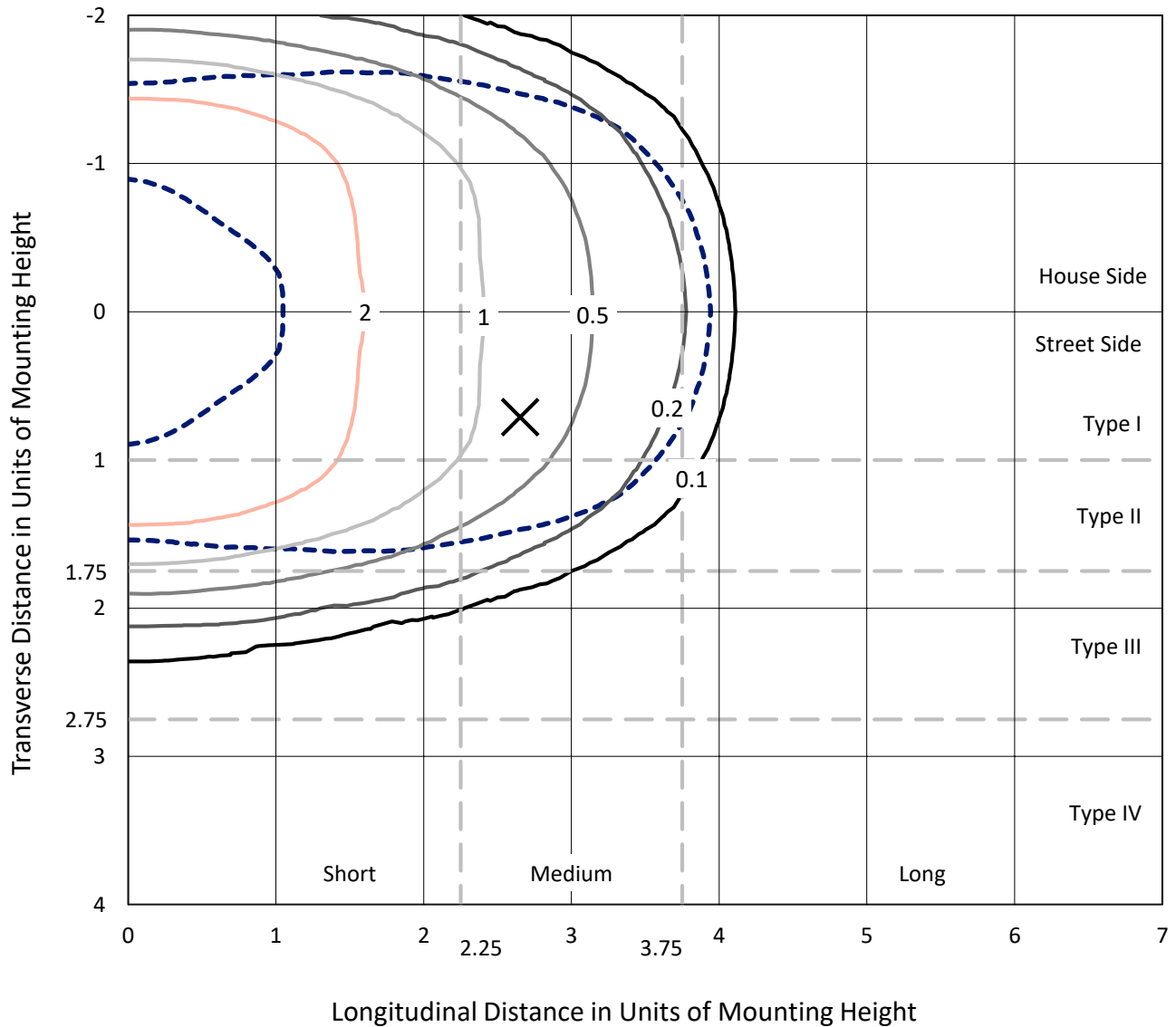
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

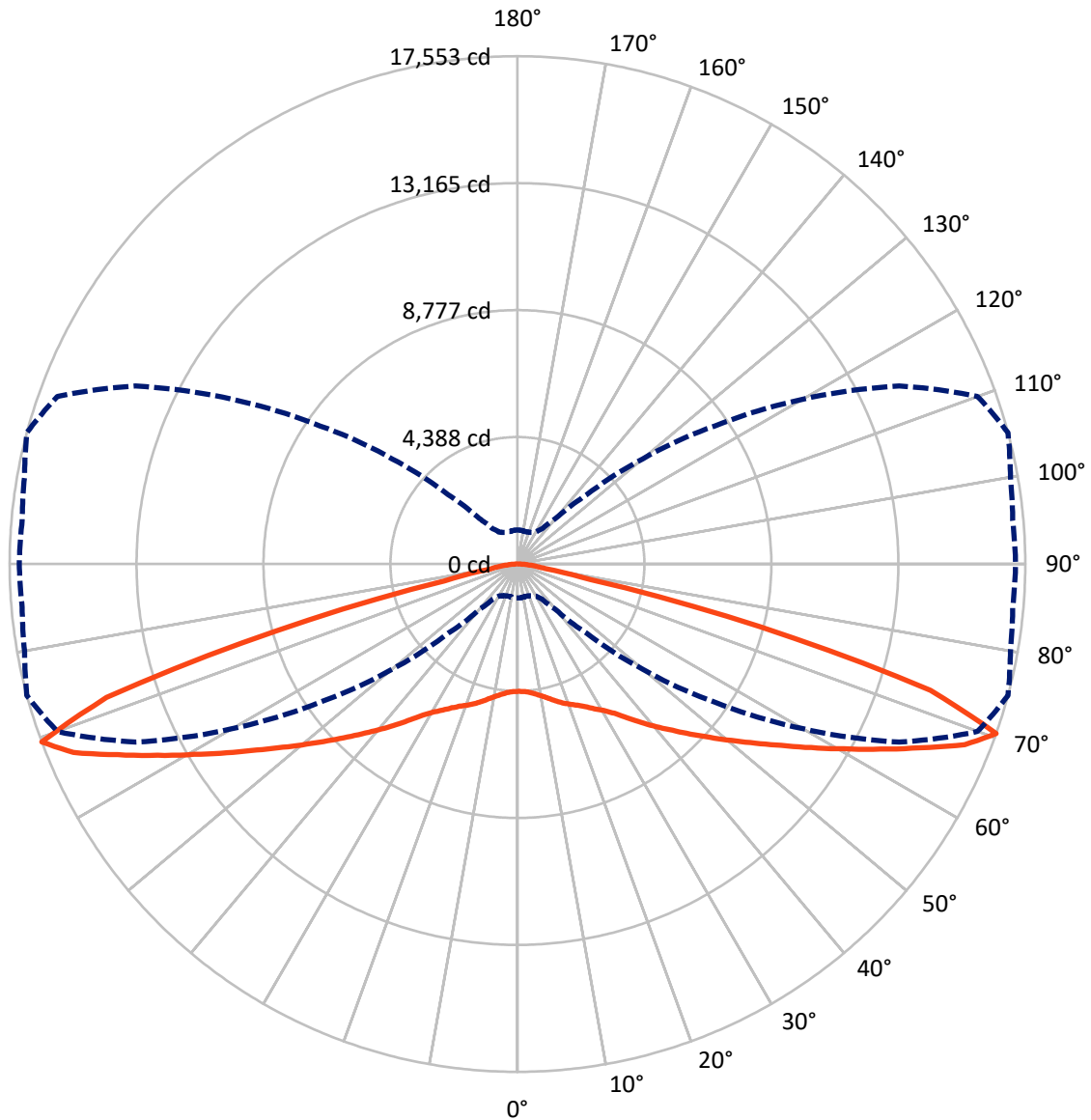
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	19840.0	0.0	19840.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19840.0	0.0	19840.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39680.0	0.0	39680.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.1	1.1
10°-20°	1311.6	3.3
20°-30°	2468.7	6.2
30°-40°	4371.6	11.0
40°-50°	7310.7	18.4
50°-60°	10187.4	25.7
60°-70°	9447.2	23.8
70°-80°	3765.0	9.5
80°-90°	395.8	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°	39680.0	100.0
0°-180°	39680.0	100.0



REPORT NUMBER: P191798

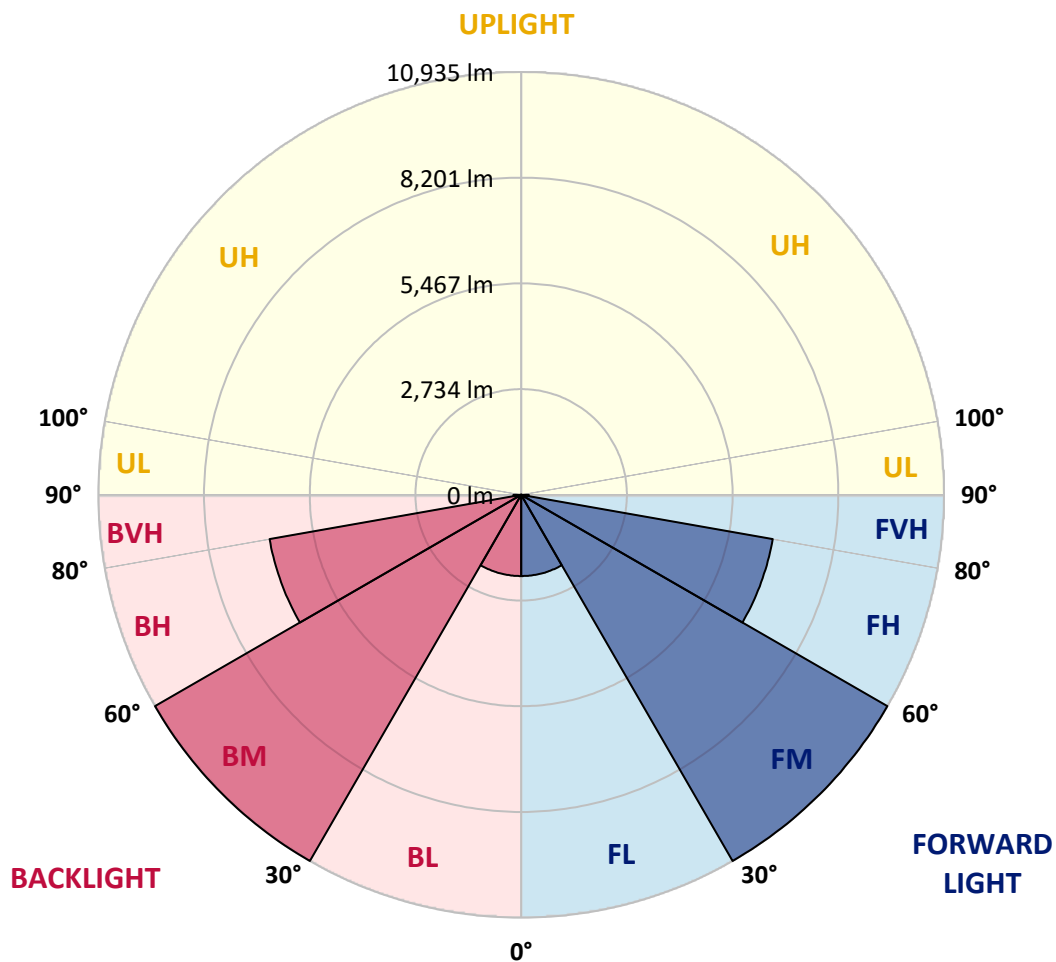
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2101.2	5.3			
FM	(30°-60°)	10934.8	27.6			
FH	(60°-80°)	6606.1	16.6			G3/7500
FVH	(80°-90°)	197.9	0.5			G2/225
BL	(0°-30°)	2101.2	5.3	B3/2500		
BM	(30°-60°)	10934.8	27.6	B5		
BH	(60°-80°)	6606.1	16.6	B5		G5
BVH	(80°-90°)	197.9	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: P191798

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4
2.5°	4393.9	4390.2	4393.9	4392.1	4395.8	4395.8	4399.6	4407.1	4407.1	4412.7	4410.8
5°	4350.8	4348.9	4354.6	4360.2	4365.8	4377.1	4388.3	4405.2	4418.3	4427.7	4437.1
7.5°	4266.4	4266.4	4273.9	4287.0	4300.2	4324.5	4350.8	4384.6	4418.3	4446.4	4470.8
10°	4197.0	4200.8	4210.2	4232.7	4255.2	4292.7	4328.3	4377.1	4423.9	4470.8	4508.3
12.5°	4155.8	4161.4	4178.3	4212.0	4249.5	4300.2	4354.6	4416.4	4468.9	4525.2	4562.7
15°	4168.9	4172.6	4197.0	4238.3	4287.0	4350.8	4423.9	4497.1	4559.0	4619.0	4669.6
17.5°	4242.0	4247.7	4275.8	4322.7	4373.3	4448.3	4527.1	4609.6	4686.5	4754.0	4815.9
20°	4373.3	4378.9	4414.6	4465.2	4525.2	4602.1	4680.9	4767.1	4853.4	4924.7	4994.0
22.5°	4559.0	4568.3	4602.1	4652.7	4720.2	4802.8	4896.5	4988.4	5070.9	5136.6	5198.5
25°	4802.8	4823.4	4855.3	4911.5	4982.8	5057.8	5159.1	5252.8	5331.6	5393.5	5438.5
27.5°	5147.8	5176.0	5200.3	5254.7	5324.1	5395.4	5496.6	5579.2	5654.2	5714.2	5747.9
30°	5605.4	5633.5	5657.9	5710.4	5774.2	5841.7	5937.3	6010.5	6057.4	6104.3	6102.4
32.5°	6160.5	6190.5	6199.9	6256.2	6321.8	6394.9	6481.2	6522.5	6560.0	6565.6	6531.8
35°	6781.3	6796.3	6833.8	6908.8	6983.8	7043.8	7126.3	7146.9	7146.9	7118.8	7043.8
37.5°	7462.0	7471.4	7523.9	7608.3	7685.2	7747.1	7803.3	7844.6	7823.9	7763.9	7638.3
40°	8208.4	8225.3	8300.3	8375.3	8461.6	8519.7	8579.7	8587.2	8566.6	8478.4	8307.8
42.5°	8921.0	8936.0	9011.0	9129.2	9241.7	9322.3	9378.6	9389.9	9324.2	9243.6	9031.7
45°	9534.3	9573.6	9671.2	9809.9	9973.1	10087.5	10164.4	10196.3	10138.1	10033.1	9787.4
47.5°	10020.0	10059.4	10198.1	10363.2	10565.7	10751.4	10878.9	10946.4	10931.4	10852.6	10584.5
50°	10376.3	10413.8	10563.8	10766.4	11002.7	11233.3	11450.9	11612.1	11668.4	11632.8	11387.1
52.5°	10417.5	10479.4	10655.7	10927.6	11235.2	11550.3	11859.7	12133.5	12319.1	12347.3	12165.4
55°	9841.8	9903.7	10147.5	10550.7	11008.3	11522.1	12017.2	12478.6	12844.2	13031.8	12936.1
57.5°	8484.1	8594.7	8851.6	9324.2	9997.5	10766.4	11555.9	12375.4	13119.9	13616.9	13712.5
60°	6501.8	6633.1	6891.9	7394.5	8144.6	9061.7	10115.6	11327.1	12641.7	13759.4	14427.0
62.5°	4170.8	4294.5	4566.5	5003.4	5614.8	6608.7	7739.6	9177.9	10944.5	12709.2	14299.5
65°	2143.5	2211.0	2353.6	2618.0	3094.3	3837.0	4851.5	6286.2	8305.9	10483.2	12782.4
67.5°	1357.8	1370.9	1402.8	1440.3	1562.2	1819.1	2291.7	3186.2	4847.8	7118.8	9809.9
70°	1174.0	1174.0	1159.0	1153.3	1168.3	1204.0	1277.1	1485.3	2046.0	3379.4	5657.9
72.5°	1074.6	1063.3	1037.1	1016.4	1012.7	1012.7	1027.7	1059.6	1149.6	1376.5	2214.8
75°	990.2	958.3	922.7	898.3	888.9	879.5	877.7	883.3	902.0	937.7	1057.7
77.5°	887.0	845.8	804.5	780.1	768.9	755.8	744.5	731.4	722.0	733.3	785.8
80°	763.3	716.4	684.5	669.5	658.2	639.5	615.1	592.6	572.0	568.2	600.1
82.5°	615.1	560.7	562.6	568.2	547.6	521.3	495.1	470.7	435.1	416.3	435.1
85°	497.0	468.8	455.7	491.3	461.3	422.0	380.7	337.6	281.3	236.3	256.9
87.5°	193.2	193.2	288.8	444.5	399.4	326.3	279.4	238.2	148.2	114.4	116.3
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: P191798

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4	4401.4
2.5°	4408.9	4412.7	4410.8	4408.9	4408.9	4407.1	4408.9	4408.9
5°	4442.7	4452.1	4452.1	4455.8	4455.8	4457.7	4459.6	4457.7
7.5°	4493.3	4510.2	4521.5	4534.6	4536.5	4538.3	4542.1	4538.3
10°	4544.0	4577.7	4602.1	4626.5	4637.7	4641.5	4645.2	4645.2
12.5°	4607.7	4654.6	4697.7	4740.9	4761.5	4772.8	4772.8	4780.3
15°	4712.7	4759.6	4810.3	4868.4	4904.0	4922.8	4928.4	4928.4
17.5°	4860.9	4902.2	4945.3	5001.5	5046.6	5070.9	5076.6	5074.7
20°	5033.4	5072.8	5097.2	5132.8	5172.2	5200.3	5207.8	5207.8
22.5°	5230.3	5252.8	5256.6	5267.8	5299.7	5337.2	5354.1	5357.9
25°	5447.9	5453.5	5438.5	5438.5	5459.1	5494.8	5511.6	5513.5
27.5°	5729.2	5701.1	5663.5	5650.4	5663.5	5704.8	5725.4	5732.9
30°	6079.9	6012.4	5926.1	5879.2	5871.7	5926.1	5963.6	5969.2
32.5°	6481.2	6383.7	6269.3	6173.6	6149.3	6183.0	6228.0	6226.1
35°	6957.5	6841.3	6702.5	6580.6	6524.3	6558.1	6621.8	6629.3
37.5°	7507.0	7355.1	7195.7	7041.9	6953.8	6963.2	7030.7	7053.2
40°	8120.2	7923.3	7722.7	7516.4	7390.7	7366.4	7448.9	7462.0
42.5°	8776.6	8523.4	8270.3	8015.2	7853.9	7816.4	7912.1	7906.5
45°	9476.1	9153.6	8857.3	8576.0	8384.7	8328.4	8407.2	8407.2
47.5°	10228.1	9830.6	9478.0	9159.2	8951.0	8870.4	8945.4	8951.0
50°	11025.2	10603.2	10188.8	9834.3	9584.9	9481.7	9579.3	9594.3
52.5°	11818.4	11407.7	10989.5	10584.5	10282.5	10156.9	10269.4	10318.2
55°	12623.0	12219.8	11820.3	11424.6	11066.4	10918.3	11038.3	11100.2
57.5°	13472.5	13099.3	12718.6	12319.1	11974.1	11743.4	11870.9	11953.5
60°	14468.3	14149.5	13753.8	13313.1	12964.3	12729.8	12803.0	12876.1
62.5°	15255.9	15379.7	15044.0	14533.9	14085.7	13785.7	13856.9	13933.8
65°	14875.2	16144.9	16443.0	15927.3	15306.6	14839.6	14809.6	14849.0
67.5°	12433.5	14899.6	16698.1	17189.4	16669.9	16021.1	15901.1	15959.2
70°	8317.2	11389.0	14562.1	16925.0	17553.2	17301.9	17183.8	17219.4
72.5°	3994.5	6633.1	9879.3	13020.5	14933.4	15811.0	16092.3	16229.2
75°	1460.9	2633.0	4761.5	7175.1	8662.2	10027.5	10918.3	11282.1
77.5°	881.4	1063.3	1520.9	2289.8	2593.6	2903.0	2783.0	2843.0
80°	652.6	737.0	834.5	937.7	971.4	971.4	933.9	903.9
82.5°	457.6	512.0	558.9	615.1	630.1	602.0	495.1	393.8
85°	294.4	318.8	339.4	375.1	365.7	348.8	234.4	208.2
87.5°	135.0	153.8	161.3	178.2	170.7	163.2	116.3	97.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)