

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: P191824

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191824
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 39921 lumens
Efficiency: N/A
Efficacy: 104.5 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): 382
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

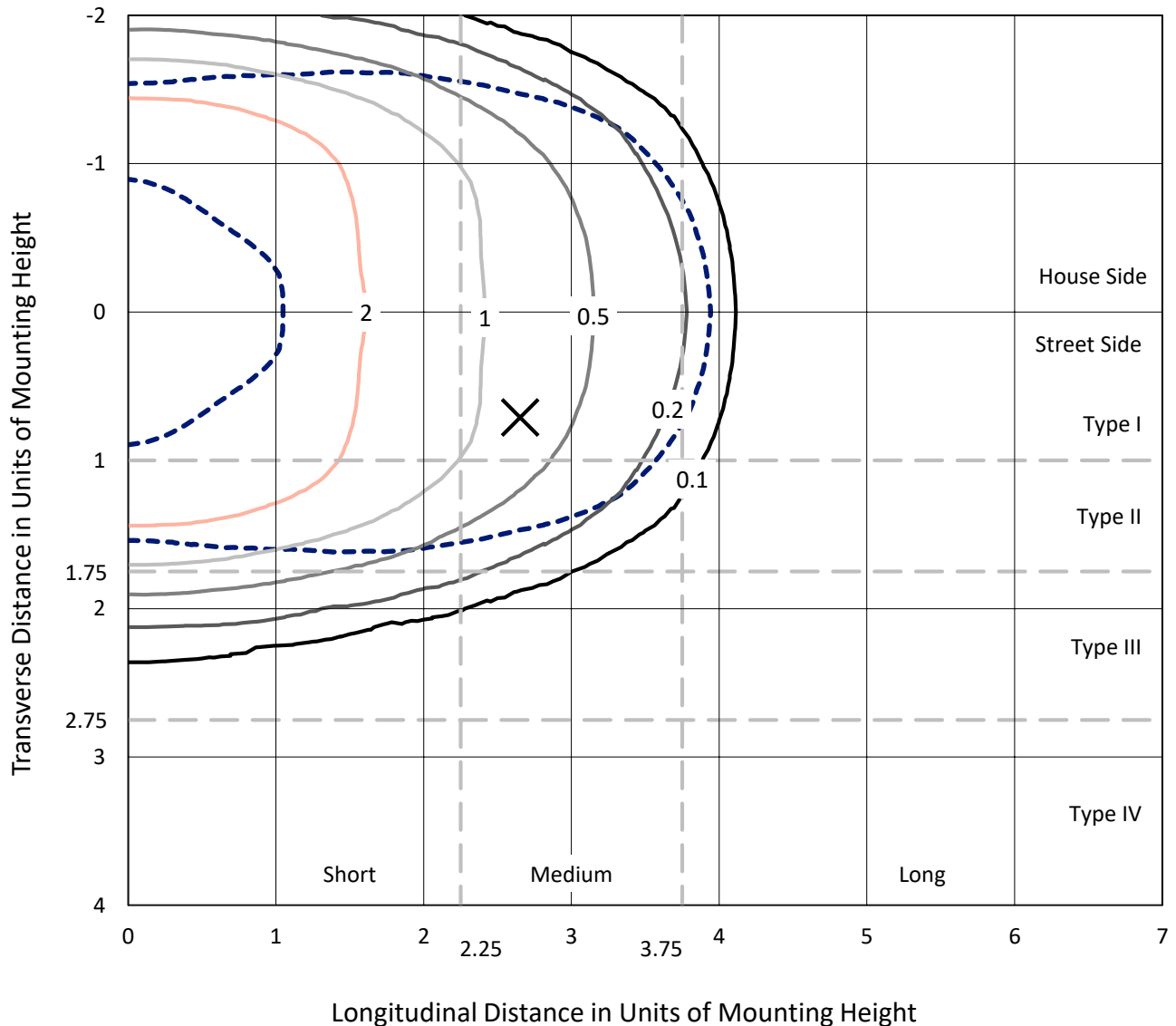


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

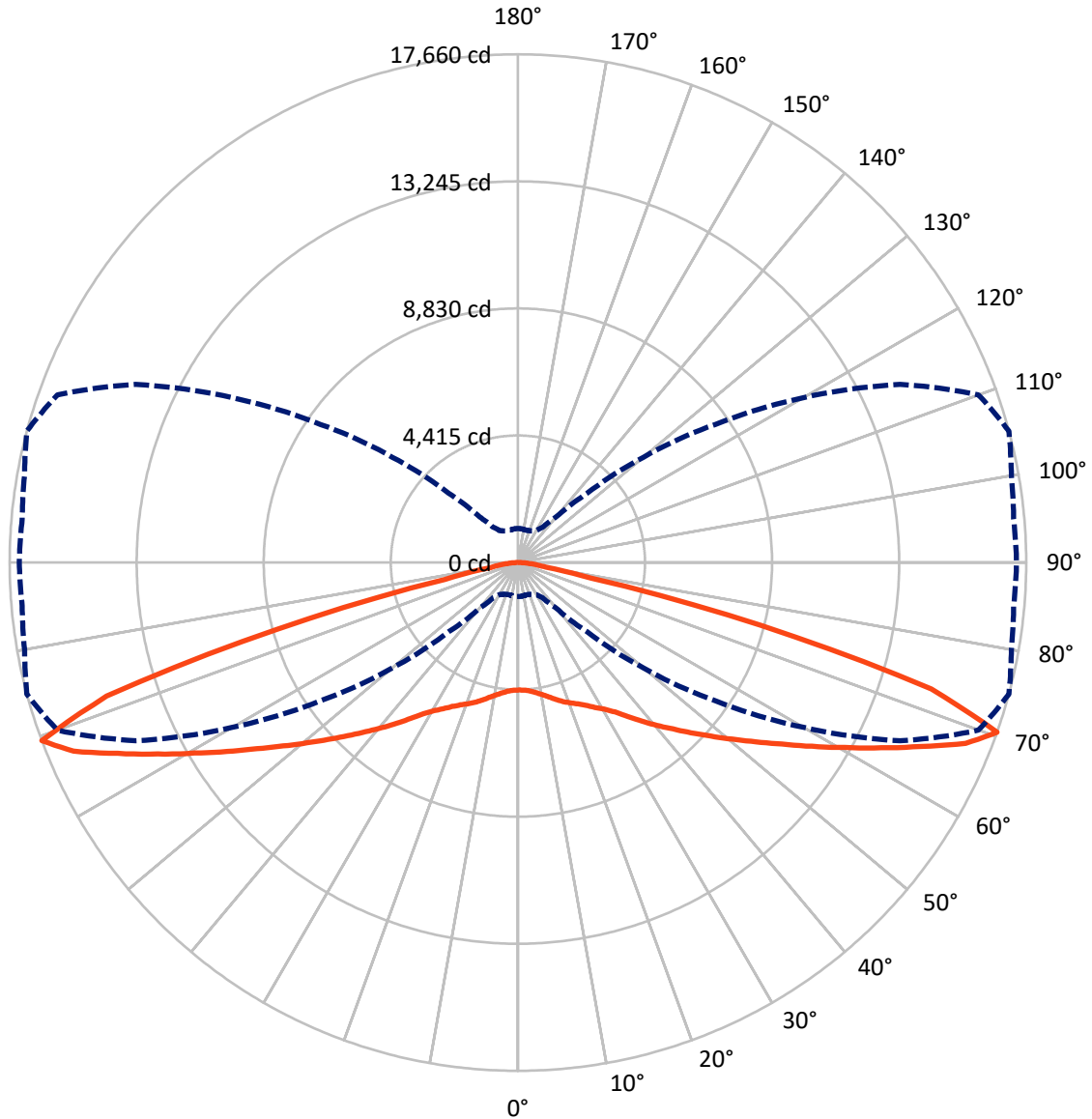


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

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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	19960.5	0.0	19960.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19960.5	0.0	19960.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39921.0	0.0	39921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.7	1.1
10°-20°	1319.6	3.3
20°-30°	2483.7	6.2
30°-40°	4398.1	11.0
40°-50°	7355.1	18.4
50°-60°	10249.3	25.7
60°-70°	9504.6	23.8
70°-80°	3787.9	9.5
80°-90°	398.2	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°	39921.0	100.0
0°-180°	39921.0	100.0



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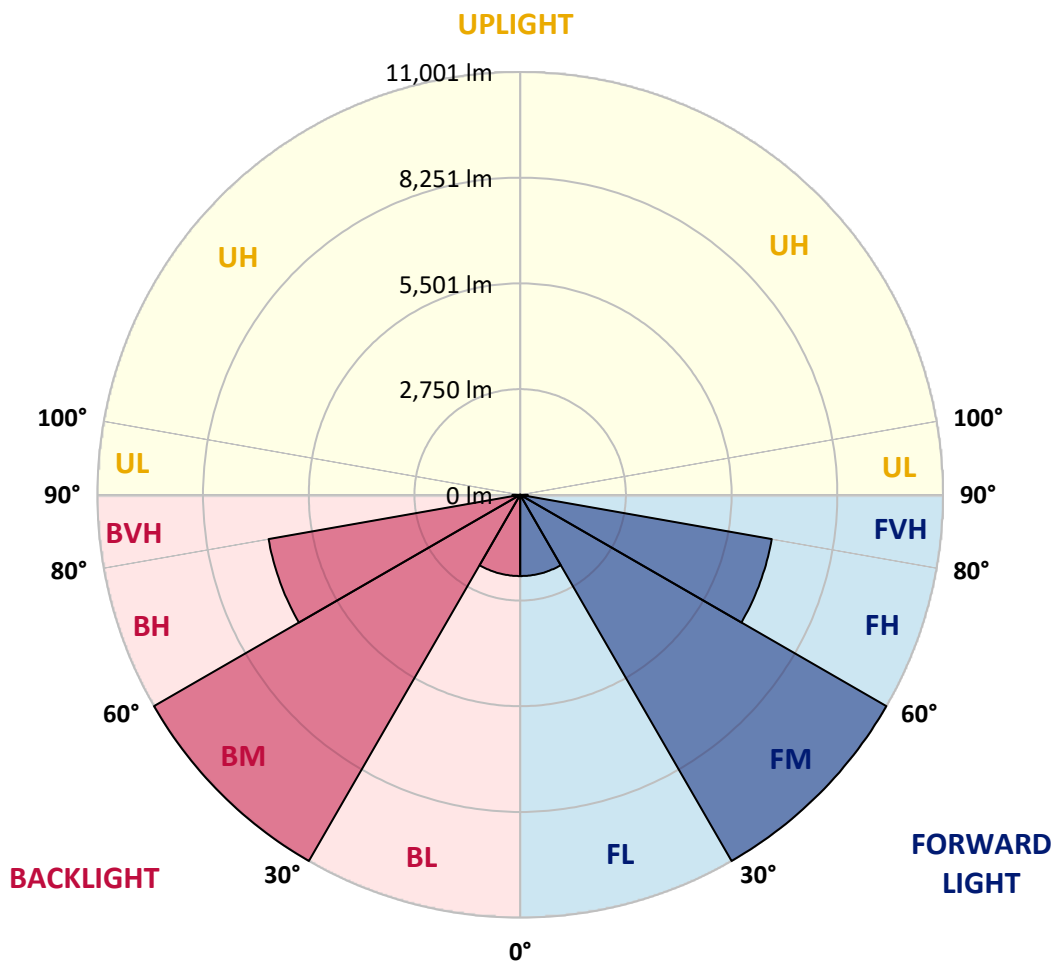
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.0	5.3			
FM (30°-60°)	11001.2	27.6			
FH (60°-80°)	6646.2	16.6			G3/7500
FVH (80°-90°)	199.1	0.5			G2/225
BL (0°-30°)	2114.0	5.3	B3/2500		
BM (30°-60°)	11001.2	27.6	B5		
BH (60°-80°)	6646.2	16.6	B5		G5
BVH (80°-90°)	199.1	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°	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2
2.5°	4420.6	4416.8	4420.6	4418.7	4422.5	4422.5	4426.3	4433.8	4433.8	4439.5	4437.6
5°	4377.2	4375.3	4381.0	4386.7	4392.3	4403.6	4415.0	4431.9	4445.1	4454.6	4464.0
7.5°	4292.3	4292.3	4299.9	4313.1	4326.3	4350.8	4377.2	4411.2	4445.1	4473.5	4498.0
10°	4222.5	4226.3	4235.7	4258.4	4281.0	4318.7	4354.6	4403.6	4450.8	4498.0	4535.7
12.5°	4181.0	4186.7	4203.6	4237.6	4275.3	4326.3	4381.0	4443.3	4496.1	4552.7	4590.4
15°	4194.2	4198.0	4222.5	4264.0	4313.1	4377.2	4450.8	4524.4	4586.7	4647.0	4698.0
17.5°	4267.8	4273.5	4301.8	4348.9	4399.9	4475.3	4554.6	4637.6	4715.0	4782.9	4845.1
20°	4399.9	4405.5	4441.4	4492.3	4552.7	4630.0	4709.3	4796.1	4882.9	4954.6	5024.4
22.5°	4586.7	4596.1	4630.0	4681.0	4748.9	4831.9	4926.3	5018.7	5101.7	5167.8	5230.0
25°	4831.9	4852.7	4884.8	4941.4	5013.1	5088.5	5190.4	5284.7	5364.0	5426.3	5471.5
27.5°	5179.1	5207.4	5231.9	5286.6	5356.4	5428.1	5530.0	5613.0	5688.5	5748.9	5782.8
30°	5639.5	5667.8	5692.3	5745.1	5809.3	5877.2	5973.4	6047.0	6094.2	6141.3	6139.4
32.5°	6197.9	6228.1	6237.5	6294.2	6360.2	6433.8	6520.6	6562.1	6599.8	6605.5	6571.5
35°	6822.4	6837.5	6875.3	6950.7	7026.2	7086.6	7169.6	7190.4	7190.4	7162.0	7086.6
37.5°	7507.3	7516.8	7569.6	7654.5	7731.8	7794.1	7850.7	7892.2	7871.5	7811.1	7684.7
40°	8258.2	8275.2	8350.7	8426.2	8513.0	8571.4	8631.8	8639.4	8618.6	8529.9	8358.2
42.5°	8975.2	8990.3	9065.8	9184.6	9297.8	9379.0	9435.6	9446.9	9380.9	9299.7	9086.5
45°	9592.2	9631.8	9729.9	9869.5	10033.7	10148.8	10226.1	10258.2	10199.7	10094.0	9846.9
47.5°	10080.8	10120.5	10260.1	10426.1	10629.9	10816.7	10945.0	11012.9	10997.8	10918.5	10648.7
50°	10439.3	10477.0	10628.0	10831.8	11069.5	11301.5	11520.4	11682.7	11739.3	11703.4	11456.3
52.5°	10480.8	10543.1	10720.4	10994.0	11303.4	11620.4	11931.7	12207.2	12394.0	12422.3	12239.3
55°	9901.6	9963.9	10209.1	10614.8	11075.1	11592.1	12090.2	12554.3	12922.3	13110.9	13014.7
57.5°	8535.6	8646.9	8905.4	9380.9	10058.2	10831.8	11626.1	12450.6	13199.6	13699.6	13795.8
60°	6541.3	6673.4	6933.8	7439.4	8194.1	9116.7	10177.1	11395.9	12718.5	13843.0	14514.7
62.5°	4196.1	4320.6	4594.2	5033.8	5648.9	6648.9	7786.6	9233.7	11011.0	12786.4	14386.4
65°	2156.5	2224.5	2367.9	2633.9	3113.1	3860.3	4881.0	6324.3	8356.4	10546.9	12860.0
67.5°	1366.0	1379.2	1411.3	1449.0	1571.7	1830.1	2305.6	3205.6	4877.2	7162.0	9869.5
70°	1181.1	1181.1	1166.0	1160.3	1175.4	1211.3	1284.9	1494.3	2058.4	3399.9	5692.3
72.5°	1081.1	1069.8	1043.4	1022.6	1018.8	1018.8	1033.9	1066.0	1156.6	1384.9	2228.2
75°	996.2	964.1	928.3	903.7	894.3	884.9	883.0	888.7	907.5	943.4	1064.1
77.5°	892.4	850.9	809.4	784.9	773.6	760.4	749.0	735.8	726.4	737.7	790.5
80°	767.9	720.7	688.7	673.6	662.2	643.4	618.8	596.2	575.5	571.7	603.8
82.5°	618.8	564.1	566.0	571.7	550.9	524.5	498.1	473.6	437.7	418.9	437.7
85°	500.0	471.7	458.5	494.3	464.1	424.5	383.0	339.6	283.0	237.7	258.5
87.5°	194.3	194.3	290.6	447.2	401.9	328.3	281.1	239.6	149.1	115.1	117.0
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°	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2	4428.2
2.5°	4435.7	4439.5	4437.6	4435.7	4435.7	4433.8	4435.7	4435.7
5°	4469.7	4479.1	4479.1	4482.9	4482.9	4484.8	4486.7	4484.8
7.5°	4520.6	4537.6	4548.9	4562.1	4564.0	4565.9	4569.7	4565.9
10°	4571.6	4605.5	4630.0	4654.6	4665.9	4669.7	4673.4	4673.4
12.5°	4635.7	4682.9	4726.3	4769.7	4790.4	4801.7	4801.7	4809.3
15°	4741.4	4788.5	4839.5	4898.0	4933.8	4952.7	4958.3	4958.3
17.5°	4890.4	4931.9	4975.3	5031.9	5077.2	5101.7	5107.4	5105.5
20°	5064.0	5103.6	5128.1	5164.0	5203.6	5231.9	5239.5	5239.5
22.5°	5262.1	5284.7	5288.5	5299.8	5331.9	5369.7	5386.6	5390.4
25°	5481.0	5486.6	5471.5	5471.5	5492.3	5528.1	5545.1	5547.0
27.5°	5764.0	5735.7	5697.9	5684.7	5697.9	5739.5	5760.2	5767.8
30°	6116.8	6048.9	5962.1	5914.9	5907.4	5962.1	5999.8	6005.5
32.5°	6520.6	6422.4	6307.4	6211.1	6186.6	6220.6	6265.8	6264.0
35°	6999.8	6882.8	6743.2	6620.6	6564.0	6597.9	6662.1	6669.6
37.5°	7552.6	7399.8	7239.4	7084.7	6996.0	7005.5	7073.4	7096.0
40°	8169.6	7971.5	7769.6	7562.0	7435.6	7411.1	7494.1	7507.3
42.5°	8829.9	8575.2	8320.5	8063.9	7901.6	7863.9	7960.1	7954.5
45°	9533.7	9209.2	8911.1	8628.0	8435.6	8379.0	8458.2	8458.2
47.5°	10290.3	9890.3	9535.6	9214.8	9005.4	8924.3	8999.7	9005.4
50°	11092.1	10667.6	10250.6	9894.0	9643.1	9539.3	9637.4	9652.5
52.5°	11890.2	11477.0	11056.3	10648.7	10345.0	10218.6	10331.8	10380.8
55°	12699.6	12294.0	11892.1	11494.0	11133.6	10984.6	11105.3	11167.6
57.5°	13554.3	13178.9	12795.8	12394.0	12046.8	11814.7	11943.0	12026.1
60°	14556.2	14235.4	13837.3	13393.9	13043.0	12807.2	12880.7	12954.3
62.5°	15348.6	15473.1	15135.4	14622.2	14171.3	13869.4	13941.1	14018.4
65°	14965.6	16242.9	16542.9	16024.0	15399.5	14929.7	14899.6	14939.2
67.5°	12509.1	14990.1	16799.5	17293.8	16771.2	16118.4	15997.6	16056.1
70°	8367.7	11458.1	14650.5	17027.8	17659.8	17407.0	17288.2	17324.0
72.5°	4018.7	6673.4	9939.3	13099.6	15024.1	15907.1	16190.1	16327.8
75°	1469.8	2649.0	4790.4	7218.7	8714.8	10088.4	10984.6	11350.6
77.5°	886.8	1069.8	1530.1	2303.7	2609.4	2920.7	2799.9	2860.3
80°	656.6	741.5	839.6	943.4	977.3	977.3	939.6	909.4
82.5°	460.4	515.1	562.2	618.8	633.9	605.6	498.1	396.2
85°	296.2	320.7	341.5	377.3	367.9	350.9	235.8	209.4
87.5°	135.8	154.7	162.3	179.2	171.7	164.1	117.0	98.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)