

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: P191806

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191806
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-08-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39399 lumens
Efficiency: N/A
Efficacy: 118.0 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): 334
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

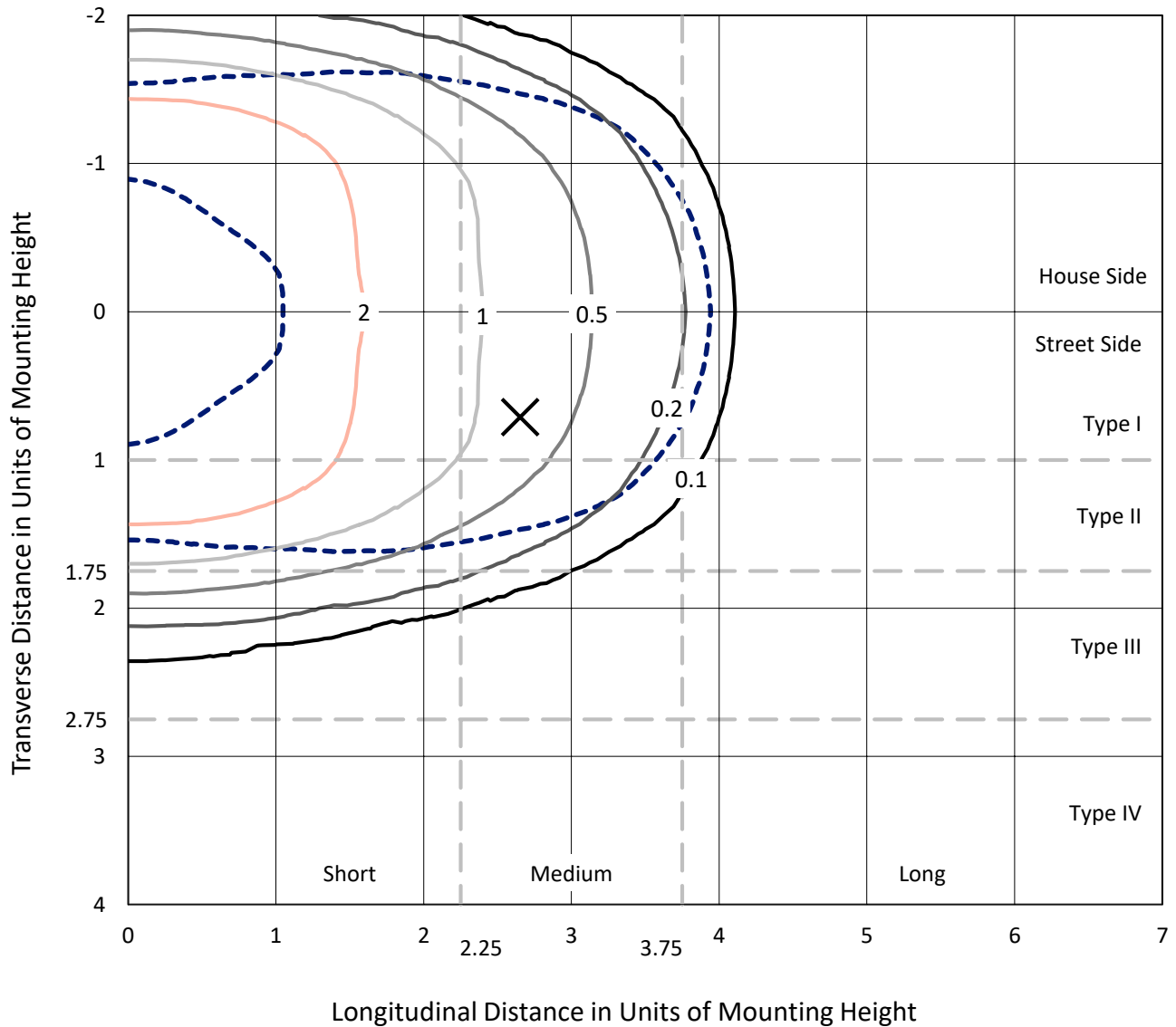


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Iso-Footcandle Lines of Horizontal Illumination

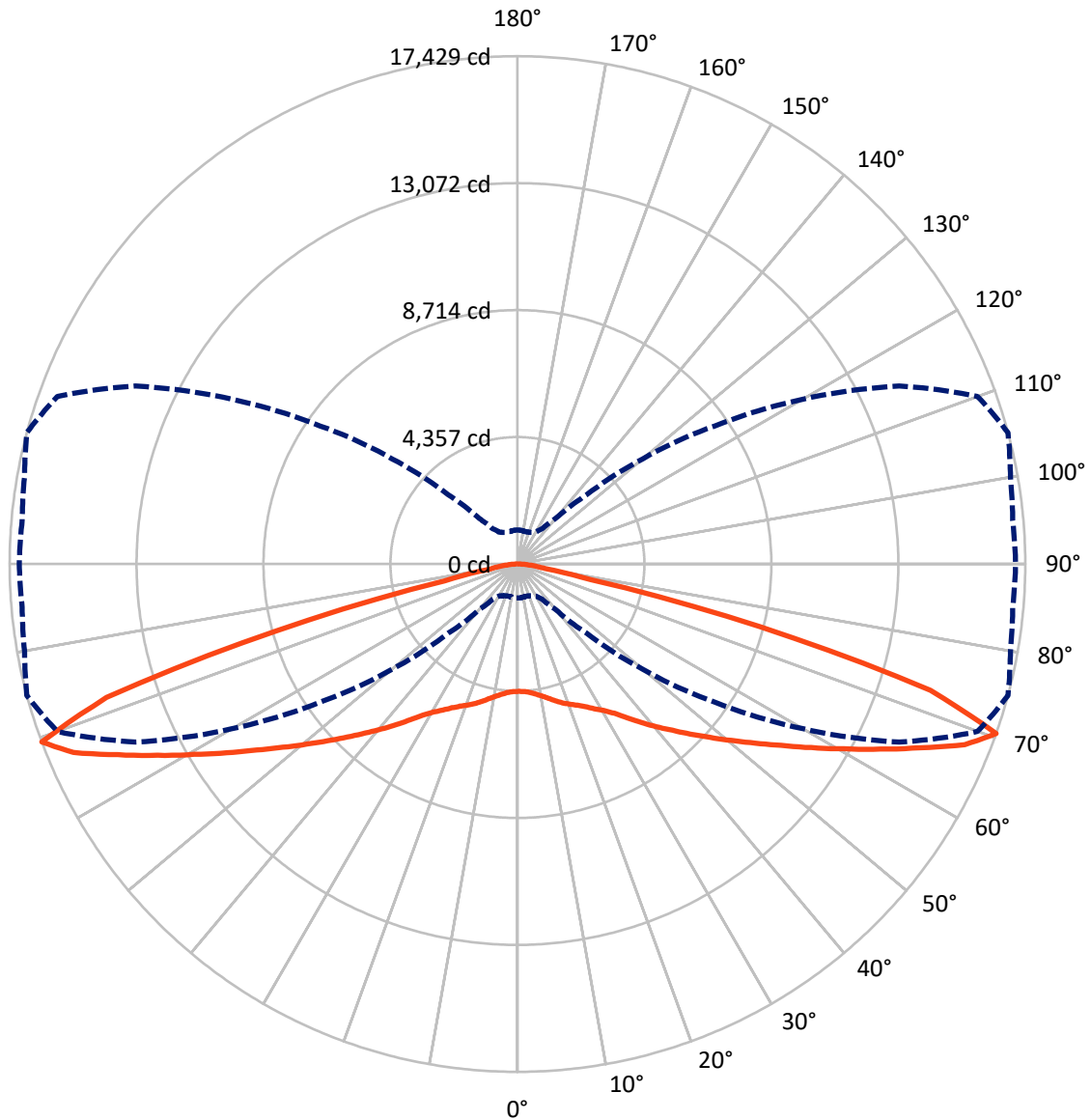
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	19699.5	0.0	19699.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19699.5	0.0	19699.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39399.0	0.0	39399.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	1.1
10°-20°	1302.3	3.3
20°-30°	2451.2	6.2
30°-40°	4340.6	11.0
40°-50°	7258.9	18.4
50°-60°	10115.3	25.7
60°-70°	9380.3	23.8
70°-80°	3738.3	9.5
80°-90°	393.0	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°	39399.0	100.0
0°-180°	39399.0	100.0



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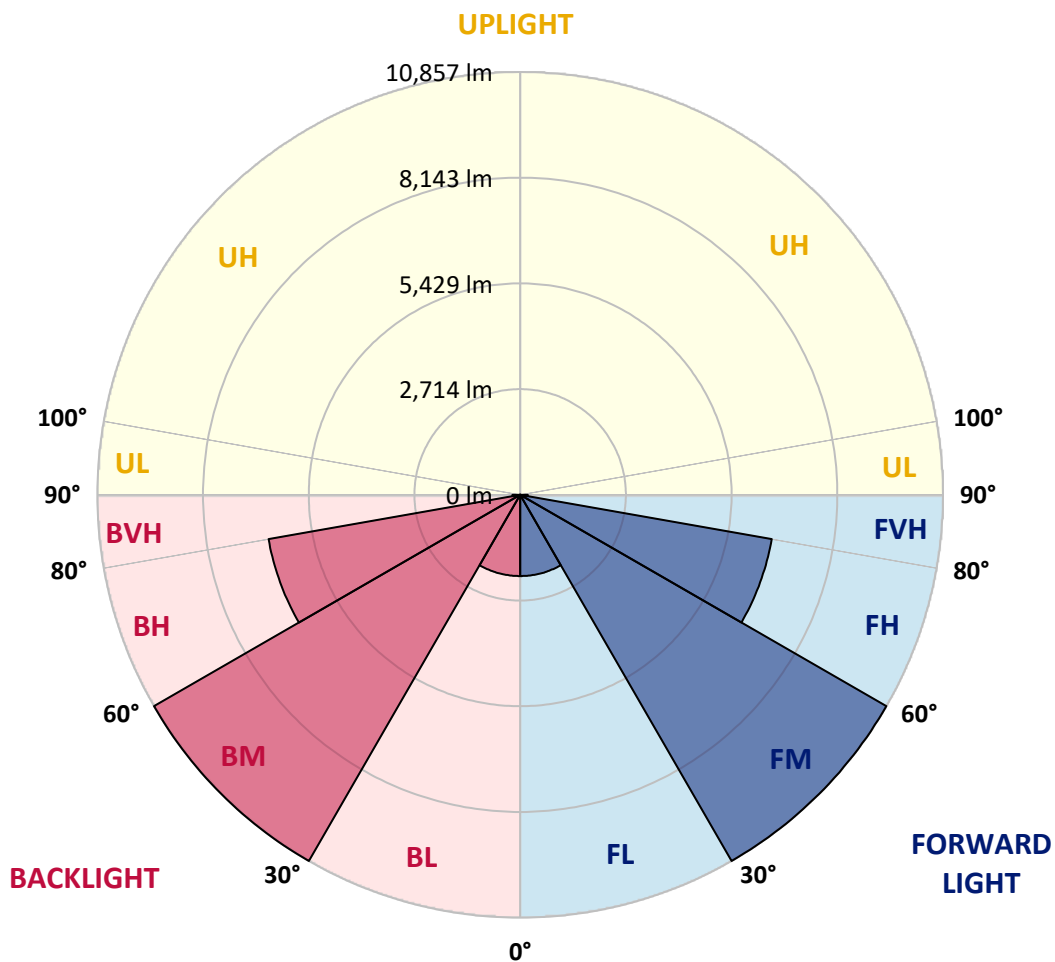
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2086.3	5.3			
FM	(30°-60°)	10857.4	27.6			
FH	(60°-80°)	6559.3	16.6			G3/7500
FVH	(80°-90°)	196.5	0.5			G2/225
BL	(0°-30°)	2086.3	5.3	B3/2500		
BM	(30°-60°)	10857.4	27.6	B5		
BH	(60°-80°)	6559.3	16.6	B5		G5
BVH	(80°-90°)	196.5	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°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
2.5°	4362.8	4359.1	4362.8	4361.0	4364.7	4364.7	4368.4	4375.9	4375.9	4381.4	4379.6
5°	4320.0	4318.1	4323.7	4329.3	4334.9	4346.1	4357.2	4374.0	4387.0	4396.3	4405.6
7.5°	4236.2	4236.2	4243.6	4256.7	4269.7	4293.9	4320.0	4353.5	4387.0	4415.0	4439.2
10°	4167.3	4171.0	4180.3	4202.7	4225.0	4262.3	4297.6	4346.1	4392.6	4439.2	4476.4
12.5°	4126.3	4131.9	4148.7	4182.2	4219.4	4269.7	4323.7	4385.2	4437.3	4493.2	4530.4
15°	4139.4	4143.1	4167.3	4208.3	4256.7	4320.0	4392.6	4465.2	4526.7	4586.3	4636.5
17.5°	4212.0	4217.6	4245.5	4292.1	4342.3	4416.8	4495.0	4577.0	4653.3	4720.3	4781.8
20°	4342.3	4347.9	4383.3	4433.6	4493.2	4569.5	4647.7	4733.4	4819.0	4889.8	4958.7
22.5°	4526.7	4536.0	4569.5	4619.8	4686.8	4768.7	4861.9	4953.1	5035.0	5100.2	5161.6
25°	4768.7	4789.2	4820.9	4876.7	4947.5	5022.0	5122.5	5215.6	5293.9	5355.3	5400.0
27.5°	5111.4	5139.3	5163.5	5217.5	5286.4	5357.2	5457.7	5539.6	5614.1	5673.7	5707.2
30°	5565.7	5593.6	5617.9	5670.0	5733.3	5800.3	5895.3	5967.9	6014.5	6061.0	6059.2
32.5°	6116.9	6146.7	6156.0	6211.8	6277.0	6349.6	6435.3	6476.3	6513.5	6519.1	6485.6
35°	6733.2	6748.1	6785.4	6859.8	6934.3	6993.9	7075.8	7096.3	7096.3	7068.4	6993.9
37.5°	7409.2	7418.5	7470.6	7554.4	7630.7	7692.2	7748.1	7789.0	7768.5	7709.0	7584.2
40°	8150.3	8167.0	8241.5	8316.0	8401.6	8459.4	8518.9	8526.4	8505.9	8418.4	8248.9
42.5°	8857.8	8872.7	8947.2	9064.5	9176.3	9256.3	9312.2	9323.4	9258.2	9178.1	8967.7
45°	9466.7	9505.8	9602.7	9740.5	9902.5	10016.0	10092.4	10124.0	10066.3	9962.0	9718.1
47.5°	9949.0	9988.1	10125.9	10289.8	10490.9	10675.2	10801.8	10868.9	10854.0	10775.8	10509.5
50°	10302.8	10340.0	10489.0	10690.1	10924.7	11153.8	11369.8	11529.9	11585.8	11550.4	11306.5
52.5°	10343.8	10405.2	10580.3	10850.3	11155.6	11468.5	11775.7	12047.6	12231.9	12259.8	12079.2
55°	9772.1	9833.6	10075.6	10476.0	10930.3	11440.5	11932.1	12390.2	12753.3	12939.5	12844.5
57.5°	8424.0	8533.8	8788.9	9258.2	9926.7	10690.1	11474.0	12287.8	13027.0	13520.5	13615.4
60°	6455.8	6586.1	6843.1	7342.1	8086.9	8997.5	10044.0	11246.9	12552.2	13662.0	14324.9
62.5°	4141.2	4264.1	4534.1	4968.0	5575.0	6561.9	7684.7	9112.9	10867.0	12619.2	14198.2
65°	2128.3	2195.4	2336.9	2599.4	3072.4	3809.8	4817.2	6241.6	8247.1	10408.9	12691.8
67.5°	1348.1	1361.2	1392.8	1430.1	1551.1	1806.2	2275.4	3163.6	4813.4	7068.4	9740.5
70°	1165.7	1165.7	1150.8	1145.2	1160.1	1195.4	1268.1	1474.8	2031.5	3355.4	5617.9
72.5°	1067.0	1055.8	1029.7	1009.2	1005.5	1005.5	1020.4	1052.1	1141.4	1366.8	2199.1
75°	983.2	951.5	916.1	891.9	882.6	873.3	871.4	877.0	895.7	931.0	1050.2
77.5°	880.8	839.8	798.8	774.6	763.4	750.4	739.2	726.2	716.9	728.1	780.2
80°	757.9	711.3	679.7	664.8	653.6	635.0	610.8	588.4	567.9	564.2	595.9
82.5°	610.8	556.8	558.6	564.2	543.7	517.7	491.6	467.4	432.0	413.4	432.0
85°	493.4	465.5	452.5	487.9	458.1	419.0	378.0	335.2	279.3	234.6	255.1
87.5°	191.8	191.8	286.8	441.3	396.6	324.0	277.4	236.5	147.1	113.6	115.4
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°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
2.5°	4377.7	4381.4	4379.6	4377.7	4377.7	4375.9	4377.7	4377.7
5°	4411.2	4420.5	4420.5	4424.3	4424.3	4426.1	4428.0	4426.1
7.5°	4461.5	4478.3	4489.4	4502.5	4504.3	4506.2	4509.9	4506.2
10°	4511.8	4545.3	4569.5	4593.7	4604.9	4608.6	4612.3	4612.3
12.5°	4575.1	4621.6	4664.5	4707.3	4727.8	4739.0	4739.0	4746.4
15°	4679.4	4725.9	4776.2	4833.9	4869.3	4887.9	4893.5	4893.5
17.5°	4826.5	4867.4	4910.3	4966.1	5010.8	5035.0	5040.6	5038.7
20°	4997.8	5036.9	5061.1	5096.5	5135.6	5163.5	5171.0	5171.0
22.5°	5193.3	5215.6	5219.4	5230.5	5262.2	5299.4	5316.2	5319.9
25°	5409.3	5414.9	5400.0	5400.0	5420.5	5455.9	5472.6	5474.5
27.5°	5688.6	5660.7	5623.4	5610.4	5623.4	5664.4	5684.9	5692.3
30°	6036.8	5969.8	5884.1	5837.6	5830.1	5884.1	5921.4	5927.0
32.5°	6435.3	6338.5	6224.9	6129.9	6105.7	6139.2	6183.9	6182.1
35°	6908.3	6792.8	6655.0	6534.0	6478.1	6511.6	6575.0	6582.4
37.5°	7453.8	7303.0	7144.7	6992.1	6904.5	6913.8	6980.9	7003.2
40°	8062.7	7867.2	7668.0	7463.2	7338.4	7314.2	7396.1	7409.2
42.5°	8714.5	8463.1	8211.7	7958.5	7798.3	7761.1	7856.1	7850.5
45°	9409.0	9088.7	8794.5	8515.2	8325.3	8269.4	8347.6	8347.6
47.5°	10155.7	9760.9	9410.9	9094.3	8887.6	8807.6	8882.1	8887.6
50°	10947.1	10528.1	10116.6	9764.7	9517.0	9414.6	9511.4	9526.3
52.5°	11734.7	11326.9	10911.7	10509.5	10209.7	10084.9	10196.7	10245.1
55°	12533.6	12133.2	11736.6	11343.7	10988.0	10840.9	10960.1	11021.6
57.5°	13377.1	13006.5	12628.5	12231.9	11889.3	11660.3	11786.9	11868.8
60°	14365.8	14049.3	13656.4	13218.8	12872.5	12639.7	12712.3	12784.9
62.5°	15147.9	15270.8	14937.5	14431.0	13986.0	13688.0	13758.8	13835.1
65°	14769.9	16030.5	16326.6	15814.5	15198.2	14734.5	14704.7	14743.8
67.5°	12345.5	14794.1	16579.8	17067.7	16551.9	15907.6	15788.5	15846.2
70°	8258.3	11308.3	14458.9	16805.1	17428.9	17179.4	17062.1	17097.5
72.5°	3966.2	6586.1	9809.4	12928.3	14827.6	15699.1	15978.4	16114.3
75°	1450.5	2614.3	4727.8	7124.3	8600.9	9956.5	10840.9	11202.2
77.5°	875.2	1055.8	1510.1	2273.6	2575.2	2882.5	2763.3	2822.9
80°	648.0	731.8	828.6	931.0	964.5	964.5	927.3	897.5
82.5°	454.3	508.3	554.9	610.8	625.7	597.7	491.6	391.0
85°	292.3	316.6	337.0	372.4	363.1	346.3	232.8	206.7
87.5°	134.1	152.7	160.1	176.9	169.4	162.0	115.4	96.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)