

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: P193556

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193556
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39791 lumens
Efficiency: N/A
Efficacy: 89.4 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

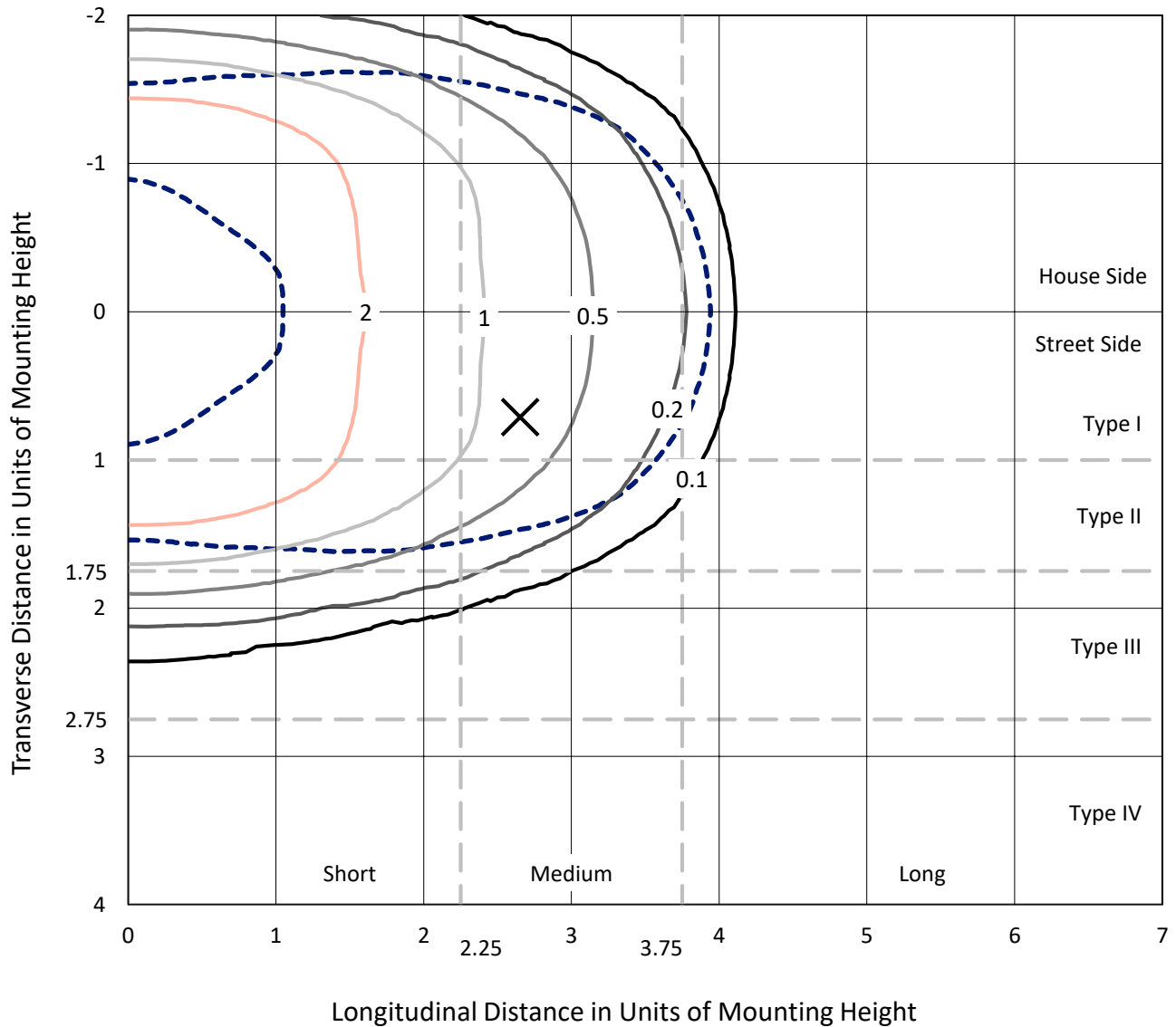
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

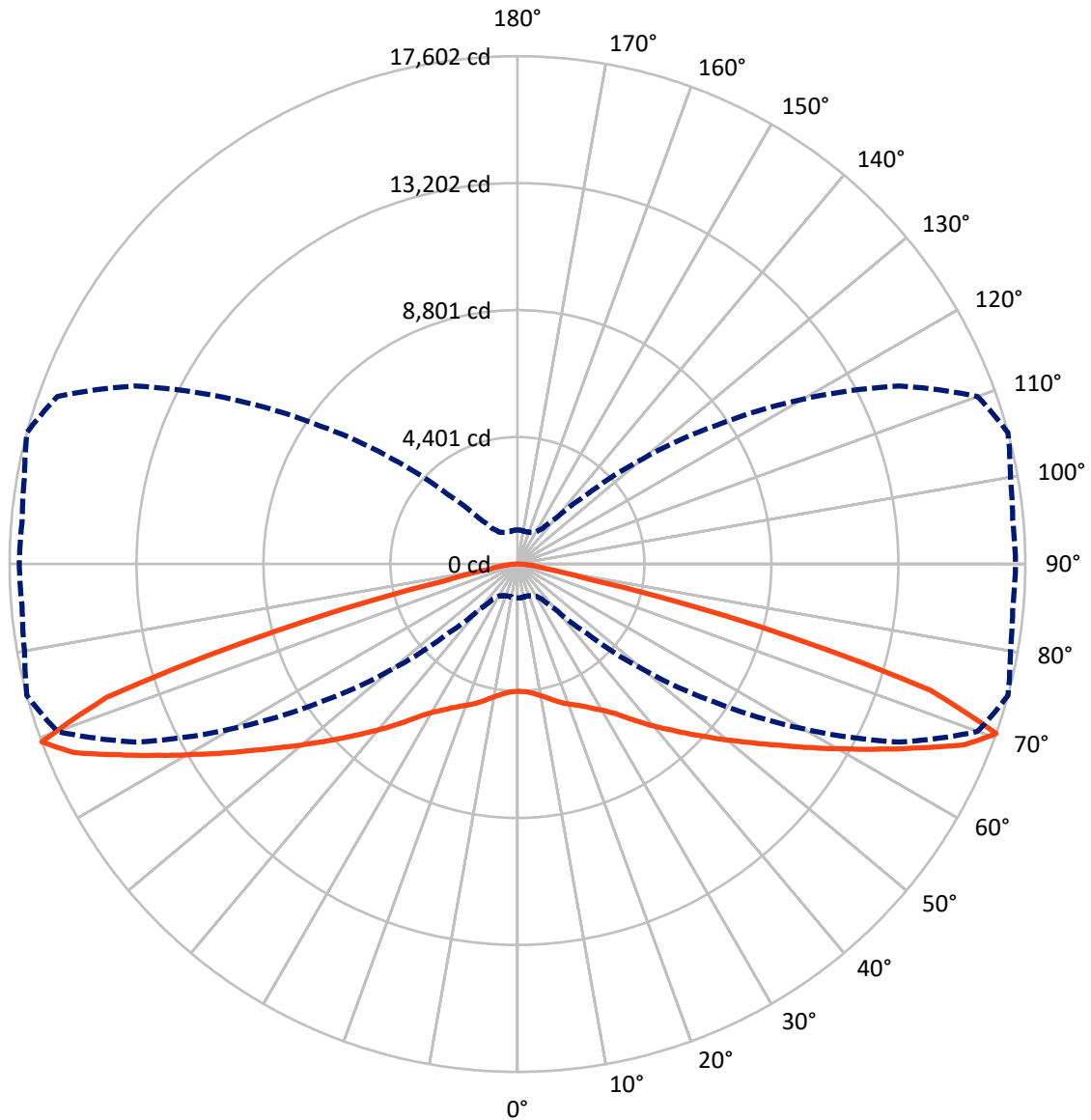
× Max cd
 - - - 1/2 Max cd



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	19895.5	0.0	19895.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19895.5	0.0	19895.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39791.0	0.0	39791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.3	1.1
10°-20°	1315.3	3.3
20°-30°	2475.6	6.2
30°-40°	4383.8	11.0
40°-50°	7331.1	18.4
50°-60°	10215.9	25.7
60°-70°	9473.6	23.8
70°-80°	3775.5	9.5
80°-90°	396.9	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°	39791.0	100.0
0°-180°	39791.0	100.0



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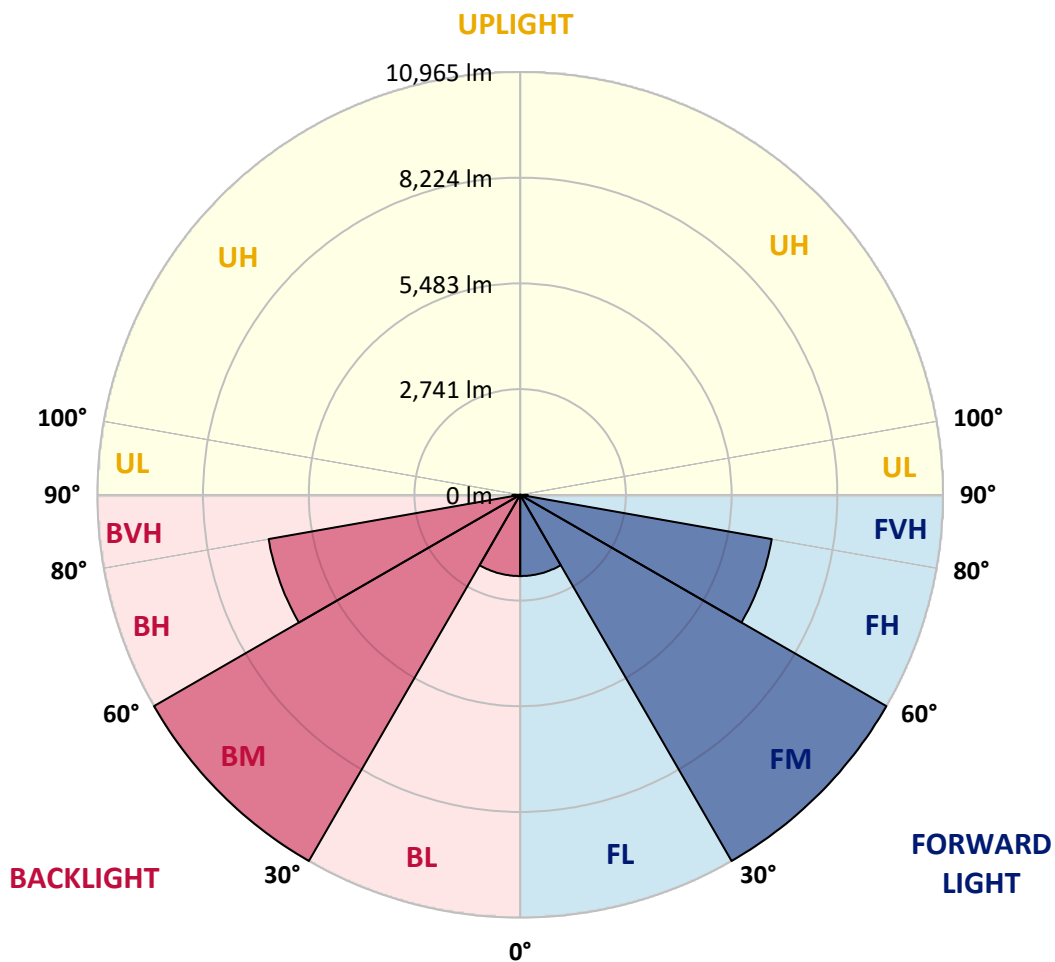
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2107.1	5.3			
FM	(30°-60°)	10965.4	27.6			
FH	(60°-80°)	6624.6	16.6			G3/7500
FVH	(80°-90°)	198.4	0.5			G2/225
BL	(0°-30°)	2107.1	5.3	B3/2500		
BM	(30°-60°)	10965.4	27.6	B5		
BH	(60°-80°)	6624.6	16.6	B5		G5
BVH	(80°-90°)	198.4	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°	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7
2.5°	4406.2	4402.5	4406.2	4404.3	4408.1	4408.1	4411.9	4419.4	4419.4	4425.0	4423.2
5°	4363.0	4361.1	4366.7	4372.4	4378.0	4389.3	4400.6	4417.5	4430.7	4440.1	4449.5
7.5°	4278.3	4278.3	4285.9	4299.0	4312.2	4336.6	4363.0	4396.8	4430.7	4458.9	4483.3
10°	4208.8	4212.5	4221.9	4244.5	4267.1	4304.7	4340.4	4389.3	4436.3	4483.3	4520.9
12.5°	4167.4	4173.0	4190.0	4223.8	4261.4	4312.2	4366.7	4428.8	4481.5	4537.9	4575.5
15°	4180.6	4184.3	4208.8	4250.1	4299.0	4363.0	4436.3	4509.7	4571.7	4631.9	4682.7
17.5°	4253.9	4259.5	4287.7	4334.8	4385.5	4460.8	4539.7	4622.5	4699.6	4767.3	4829.4
20°	4385.5	4391.2	4426.9	4477.7	4537.9	4615.0	4694.0	4780.5	4867.0	4938.4	5008.0
22.5°	4571.7	4581.1	4615.0	4665.7	4733.4	4816.2	4910.2	5002.4	5085.1	5150.9	5213.0
25°	4816.2	4836.9	4868.9	4925.3	4996.7	5072.0	5173.5	5267.5	5346.5	5408.6	5453.7
27.5°	5162.2	5190.4	5214.9	5269.4	5339.0	5410.5	5512.0	5594.8	5670.0	5730.2	5764.0
30°	5621.1	5649.3	5673.7	5726.4	5790.3	5858.0	5954.0	6027.3	6074.3	6121.3	6119.4
32.5°	6177.7	6207.8	6217.2	6273.7	6339.5	6412.8	6499.3	6540.7	6578.3	6584.0	6550.1
35°	6800.2	6815.3	6852.9	6928.1	7003.3	7063.5	7146.2	7166.9	7166.9	7138.7	7063.5
37.5°	7482.9	7492.3	7544.9	7629.6	7706.7	7768.7	7825.1	7866.5	7845.8	7785.7	7659.7
40°	8231.4	8248.3	8323.5	8398.7	8485.2	8543.5	8603.7	8611.2	8590.5	8502.2	8331.0
42.5°	8946.0	8961.0	9036.2	9154.7	9267.6	9348.4	9404.8	9416.1	9350.3	9269.4	9056.9
45°	9560.9	9600.4	9698.2	9837.4	10001.0	10115.7	10192.8	10224.8	10166.5	10061.2	9814.8
47.5°	10048.0	10087.5	10226.7	10392.2	10595.3	10781.4	10909.3	10977.0	10962.0	10883.0	10614.1
50°	10405.3	10442.9	10593.4	10796.5	11033.4	11264.7	11482.9	11644.6	11701.0	11665.3	11419.0
52.5°	10446.7	10508.7	10685.5	10958.2	11266.6	11582.6	11892.9	12167.4	12353.6	12381.8	12199.4
55°	9869.3	9931.4	10175.9	10580.2	11039.1	11554.4	12050.8	12513.5	12880.2	13068.2	12972.3
57.5°	8507.8	8618.8	8876.4	9350.3	10025.4	10796.5	11588.2	12410.0	13156.6	13655.0	13750.9
60°	6520.0	6651.7	6911.2	7415.2	8167.4	9087.0	10143.9	11358.8	12677.1	13797.9	14467.4
62.5°	4182.4	4306.6	4579.2	5017.4	5630.5	6627.2	7761.2	9203.6	10975.1	12744.8	14339.5
65°	2149.5	2217.2	2360.1	2625.3	3103.0	3847.7	4865.1	6303.7	8329.1	10512.5	12818.1
67.5°	1361.5	1374.7	1406.7	1444.3	1566.5	1824.2	2298.1	3195.1	4861.3	7138.7	9837.4
70°	1177.3	1177.3	1162.2	1156.6	1171.6	1207.3	1280.7	1489.4	2051.7	3388.8	5673.7
72.5°	1077.6	1066.3	1040.0	1019.3	1015.5	1015.5	1030.6	1062.5	1152.8	1380.4	2221.0
75°	993.0	961.0	925.3	900.8	891.4	882.0	880.1	885.8	904.6	940.3	1060.7
77.5°	889.5	848.1	806.8	782.3	771.0	757.9	746.6	733.4	724.0	735.3	788.0
80°	765.4	718.4	686.4	671.4	660.1	641.3	616.8	594.3	573.6	569.8	601.8
82.5°	616.8	562.3	564.2	569.8	549.1	522.8	496.5	472.0	436.3	417.5	436.3
85°	498.4	470.1	457.0	492.7	462.6	423.1	381.8	338.5	282.1	237.0	257.6
87.5°	193.7	193.7	289.6	445.7	400.6	327.2	280.2	238.8	148.6	114.7	116.6
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°	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7	4413.7
2.5°	4421.3	4425.0	4423.2	4421.3	4421.3	4419.4	4421.3	4421.3
5°	4455.1	4464.5	4464.5	4468.3	4468.3	4470.2	4472.0	4470.2
7.5°	4505.9	4522.8	4534.1	4547.3	4549.2	4551.0	4554.8	4551.0
10°	4556.7	4590.5	4615.0	4639.4	4650.7	4654.5	4658.2	4658.2
12.5°	4620.6	4667.6	4710.9	4754.1	4774.8	4786.1	4786.1	4793.6
15°	4725.9	4772.9	4823.7	4882.0	4917.7	4936.6	4942.2	4942.2
17.5°	4874.5	4915.9	4959.1	5015.5	5060.7	5085.1	5090.8	5088.9
20°	5047.5	5087.0	5111.4	5147.2	5186.7	5214.9	5222.4	5222.4
22.5°	5245.0	5267.5	5271.3	5282.6	5314.6	5352.2	5369.1	5372.9
25°	5463.1	5468.8	5453.7	5453.7	5474.4	5510.1	5527.1	5528.9
27.5°	5745.2	5717.0	5679.4	5666.2	5679.4	5720.8	5741.4	5749.0
30°	6096.9	6029.2	5942.7	5895.7	5888.1	5942.7	5980.3	5985.9
32.5°	6499.3	6401.5	6286.8	6190.9	6166.5	6200.3	6245.4	6243.6
35°	6977.0	6860.4	6721.2	6599.0	6542.6	6576.4	6640.4	6647.9
37.5°	7528.0	7375.7	7215.8	7061.6	6973.2	6982.6	7050.3	7072.9
40°	8143.0	7945.5	7744.3	7537.4	7411.4	7387.0	7469.7	7482.9
42.5°	8801.2	8547.3	8293.4	8037.6	7875.9	7838.3	7934.2	7928.6
45°	9502.6	9179.2	8882.0	8599.9	8408.1	8351.7	8430.7	8430.7
47.5°	10256.7	9858.1	9504.5	9184.8	8976.1	8895.2	8970.4	8976.1
50°	11056.0	10632.9	10217.3	9861.8	9611.7	9508.3	9606.1	9621.1
52.5°	11851.5	11439.6	11020.3	10614.1	10311.3	10185.3	10298.1	10347.0
55°	12658.3	12253.9	11853.4	11456.6	11097.4	10948.8	11069.2	11131.2
57.5°	13510.2	13135.9	12754.2	12353.6	12007.6	11776.3	11904.1	11986.9
60°	14508.8	14189.1	13792.3	13350.3	13000.5	12765.5	12838.8	12912.1
62.5°	15298.6	15422.7	15086.1	14574.6	14125.1	13824.2	13895.7	13972.8
65°	14916.9	16190.0	16489.0	15971.9	15349.4	14881.1	14851.0	14890.5
67.5°	12468.3	14941.3	16744.8	17237.5	16716.6	16065.9	15945.5	16003.8
70°	8340.4	11420.8	14602.8	16972.3	17602.3	17350.3	17231.9	17267.6
72.5°	4005.7	6651.7	9907.0	13056.9	14975.2	15855.3	16137.4	16274.6
75°	1465.0	2640.4	4774.8	7195.1	8686.5	10055.5	10948.8	11313.6
77.5°	883.9	1066.3	1525.2	2296.2	2600.9	2911.2	2790.8	2851.0
80°	654.4	739.1	836.9	940.3	974.1	974.1	936.5	906.4
82.5°	458.9	513.4	560.4	616.8	631.9	603.7	496.5	394.9
85°	295.3	319.7	340.4	376.1	366.7	349.8	235.1	208.7
87.5°	135.4	154.2	161.7	178.7	171.1	163.6	116.6	97.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)