

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: P269541

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269541
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42366.6 lumens
Efficiency: N/A
Efficacy: 95.2 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

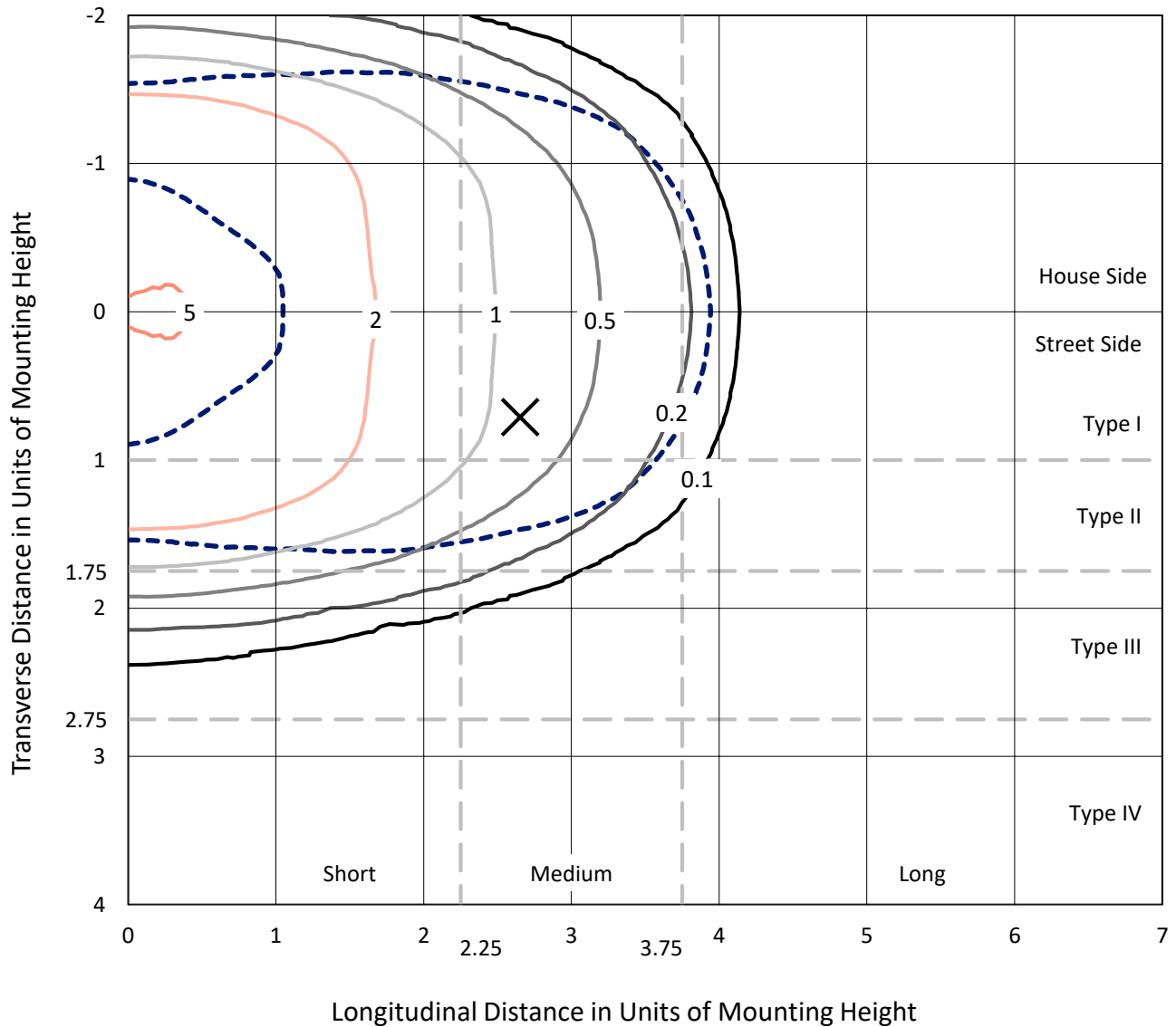
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

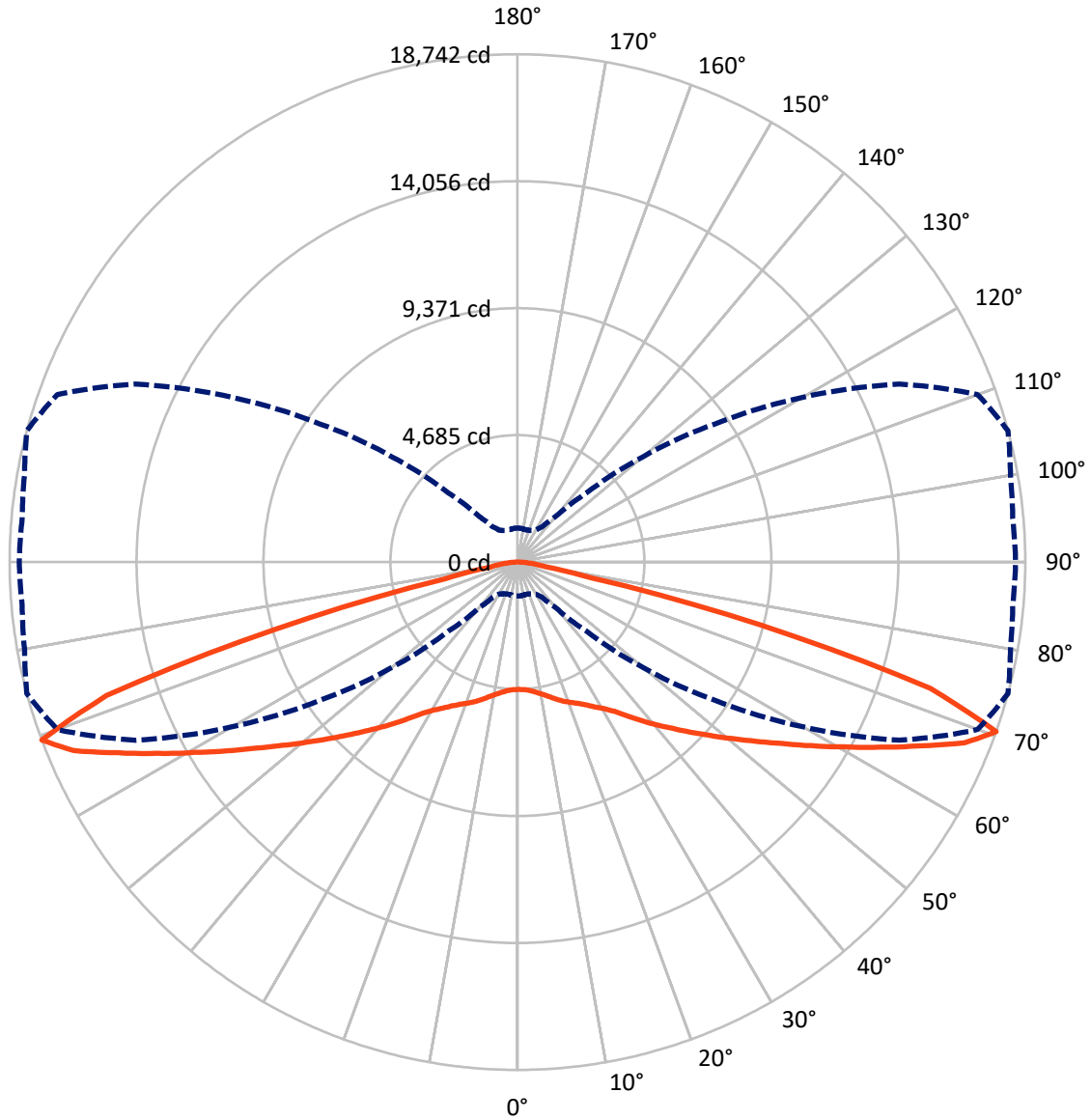
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	21183.3	0.0	21183.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21183.3	0.0	21183.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	42366.6	0.0	42366.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	1.1
10°-20°	1400.4	3.3
20°-30°	2635.8	6.2
30°-40°	4667.6	11.0
40°-50°	7805.6	18.4
50°-60°	10877.2	25.7
60°-70°	10086.8	23.8
70°-80°	4019.9	9.5
80°-90°	422.6	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°	42366.6	100.0
0°-180°	42366.6	100.0



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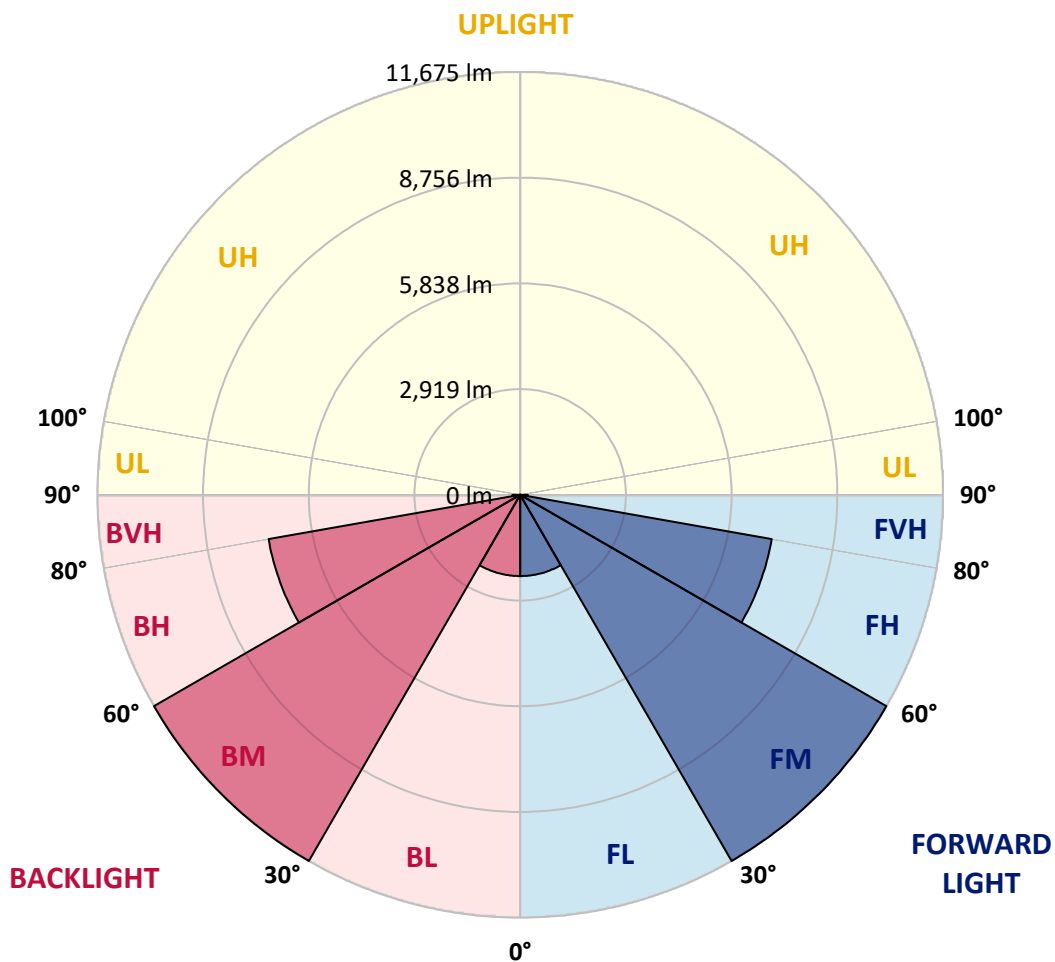
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2243.5	5.3			
FM	(30°-60°)	11675.2	27.6			
FH	(60°-80°)	7053.4	16.6			G3/7500
FVH	(80°-90°)	211.3	0.5			G2/225
BL	(0°-30°)	2243.5	5.3	B3/2500		
BM	(30°-60°)	11675.2	27.6	B5		
BH	(60°-80°)	7053.4	16.6	B5		G5
BVH	(80°-90°)	211.3	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°	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5
2.5°	4691.5	4687.4	4691.5	4689.4	4693.5	4693.5	4697.4	4705.4	4705.4	4711.5	4709.5
5°	4645.3	4643.3	4649.4	4655.3	4661.5	4673.4	4685.4	4703.4	4717.4	4727.5	4737.5
7.5°	4555.2	4555.2	4563.3	4577.4	4591.2	4617.4	4645.3	4681.4	4717.4	4747.5	4773.6
10°	4481.1	4485.1	4495.2	4519.3	4543.3	4583.3	4621.4	4673.4	4723.5	4773.6	4813.6
12.5°	4437.2	4443.1	4461.2	4497.3	4537.2	4591.2	4649.4	4715.5	4771.5	4831.7	4871.7
15°	4451.1	4455.1	4481.1	4525.2	4577.4	4645.3	4723.5	4801.6	4867.6	4931.8	4985.8
17.5°	4529.3	4535.3	4565.2	4615.3	4669.4	4749.5	4833.6	4921.8	5003.7	5076.0	5142.0
20°	4669.4	4675.4	4713.4	4767.6	4831.7	4913.6	4997.8	5089.8	5182.1	5258.0	5332.2
22.5°	4867.6	4877.6	4913.6	4967.7	5039.9	5128.0	5228.0	5326.2	5414.3	5484.3	5550.4
25°	5128.0	5150.0	5183.9	5244.0	5320.1	5400.3	5508.3	5608.5	5692.6	5758.7	5806.7
27.5°	5496.4	5526.5	5552.5	5610.5	5684.6	5760.7	5868.7	5956.9	6037.0	6101.1	6137.1
30°	5985.0	6015.1	6041.0	6097.1	6165.2	6237.2	6339.3	6417.4	6467.4	6517.6	6515.5
32.5°	6577.6	6609.6	6619.7	6679.7	6749.9	6827.8	6920.1	6964.1	7004.2	7010.2	6974.1
35°	7240.3	7256.4	7296.5	7376.5	7456.7	7520.7	7608.9	7630.8	7630.8	7600.7	7520.7
37.5°	7967.2	7977.3	8033.4	8123.5	8205.5	8271.7	8331.7	8375.6	8353.7	8289.6	8155.4
40°	8764.1	8782.2	8862.3	8942.4	9034.4	9096.5	9160.6	9168.6	9146.6	9052.5	8870.3
42.5°	9525.1	9541.1	9621.1	9747.2	9867.4	9953.5	10013.5	10025.7	9955.6	9869.5	9643.1
45°	10179.9	10221.9	10325.9	10474.1	10648.4	10770.5	10852.6	10886.6	10824.5	10712.4	10450.2
47.5°	10698.5	10740.5	10888.6	11064.9	11281.0	11479.4	11615.4	11687.6	11671.5	11587.4	11301.0
50°	11078.8	11119.0	11279.1	11495.3	11747.7	11993.9	12226.2	12398.3	12458.5	12420.3	12158.1
52.5°	11123.0	11189.0	11377.2	11667.5	11995.8	12332.3	12662.7	12954.9	13153.3	13183.3	12989.0
55°	10508.2	10574.3	10834.5	11265.0	11753.7	12302.3	12830.9	13323.4	13713.9	13914.1	13812.0
57.5°	9058.5	9176.6	9451.0	9955.6	10674.4	11495.3	12338.3	13213.3	14008.2	14538.9	14640.9
60°	6942.0	7082.1	7358.6	7895.2	8696.1	9675.3	10800.5	12094.1	13497.7	14691.1	15403.9
62.5°	4453.2	4585.3	4875.6	5342.2	5995.0	7056.1	8263.6	9799.4	11685.5	13569.7	15267.8
65°	2288.6	2360.7	2512.9	2795.3	3303.8	4096.7	5179.9	6711.7	8868.2	11193.1	13647.8
67.5°	1449.7	1463.7	1497.7	1537.8	1668.0	1942.2	2446.9	3401.9	5176.0	7600.7	10474.1
70°	1253.5	1253.5	1237.4	1231.4	1247.4	1285.5	1363.5	1585.9	2184.5	3608.2	6041.0
72.5°	1147.3	1135.3	1107.3	1085.2	1081.3	1081.3	1097.3	1131.3	1227.4	1469.6	2364.8
75°	1057.2	1023.2	985.1	959.1	949.1	939.1	937.1	943.1	963.2	1001.3	1129.3
77.5°	947.2	903.1	859.0	833.0	821.0	806.9	794.9	780.8	770.8	783.0	838.9
80°	814.9	764.8	730.9	714.8	702.8	682.8	656.8	632.8	610.7	606.7	640.8
82.5°	656.8	598.7	600.6	606.7	584.6	556.6	528.7	502.6	464.6	444.5	464.6
85°	530.5	500.5	486.5	524.6	492.6	450.5	406.5	360.4	300.4	252.3	274.3
87.5°	206.3	206.3	308.4	474.6	426.4	348.5	298.3	254.3	158.2	122.1	124.1
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°	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5	4699.5
2.5°	4707.5	4711.5	4709.5	4707.5	4707.5	4705.4	4707.5	4707.5
5°	4743.5	4753.6	4753.6	4757.6	4757.6	4759.5	4761.6	4759.5
7.5°	4797.6	4815.5	4827.6	4841.7	4843.7	4845.5	4849.6	4845.5
10°	4851.7	4887.7	4913.6	4939.7	4951.7	4955.7	4959.7	4959.7
12.5°	4919.7	4969.8	5015.9	5061.9	5083.9	5095.9	5095.9	5103.9
15°	5031.9	5081.9	5136.0	5198.0	5236.1	5256.2	5262.1	5262.1
17.5°	5190.0	5234.1	5280.1	5340.2	5388.3	5414.3	5420.4	5418.2
20°	5374.2	5416.3	5442.3	5480.4	5522.4	5552.5	5560.5	5560.5
22.5°	5584.5	5608.5	5612.5	5624.5	5658.6	5698.6	5716.6	5720.6
25°	5816.7	5822.8	5806.7	5806.7	5828.7	5866.8	5884.8	5886.9
27.5°	6117.1	6087.1	6047.0	6032.9	6047.0	6091.0	6113.1	6121.1
30°	6491.5	6419.5	6327.3	6277.3	6269.4	6327.3	6367.4	6373.4
32.5°	6920.1	6815.9	6693.8	6591.7	6565.6	6601.6	6649.8	6647.6
35°	7428.7	7304.5	7156.3	7026.2	6966.0	7002.1	7070.2	7078.3
37.5°	8015.2	7853.2	7682.9	7518.8	7424.6	7434.6	7506.6	7530.8
40°	8670.0	8459.8	8245.5	8025.3	7891.2	7865.1	7953.2	7967.2
42.5°	9370.8	9100.5	8830.2	8558.0	8385.7	8345.7	8447.8	8441.8
45°	10117.7	9773.3	9456.9	9156.7	8952.4	8892.3	8976.5	8976.5
47.5°	10920.6	10496.2	10119.8	9779.3	9557.1	9471.0	9551.0	9557.1
50°	11771.6	11321.1	10878.7	10500.2	10233.9	10123.7	10227.8	10243.9
52.5°	12618.6	12180.1	11733.7	11301.0	10978.7	10844.6	10964.7	11016.8
55°	13477.6	13047.2	12620.6	12198.2	11815.6	11657.6	11785.7	11851.8
57.5°	14384.6	13986.3	13579.8	13153.3	12784.8	12538.5	12674.6	12762.8
60°	15448.0	15107.5	14685.0	14214.5	13842.1	13591.7	13669.9	13747.9
62.5°	16288.8	16421.0	16062.7	15518.0	15039.5	14719.1	14795.2	14877.2
65°	15882.5	17237.9	17556.4	17005.8	16343.0	15844.3	15812.3	15854.4
67.5°	13275.4	15908.4	17828.8	18353.4	17798.7	17105.9	16977.6	17039.8
70°	8880.3	12160.0	15548.0	18070.9	18741.7	18473.5	18347.3	18385.3
72.5°	4265.0	7082.1	10548.2	13902.1	15944.5	16881.6	17181.9	17328.0
75°	1559.7	2811.2	5083.9	7660.8	9248.7	10706.4	11657.6	12045.9
77.5°	941.1	1135.3	1623.9	2444.8	2769.2	3099.6	2971.5	3035.6
80°	696.8	786.9	890.9	1001.3	1037.3	1037.3	997.2	965.0
82.5°	488.6	546.6	596.7	656.8	672.8	642.7	528.7	420.4
85°	314.3	340.4	362.5	400.5	390.5	372.4	250.3	222.3
87.5°	144.2	164.2	172.1	190.3	182.1	174.2	124.1	104.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)