

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: P300640

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300640
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: GLNA-AF-08-LED-E1-RW-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39260.8 lumens
Efficiency: N/A
Efficacy: 117.5 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

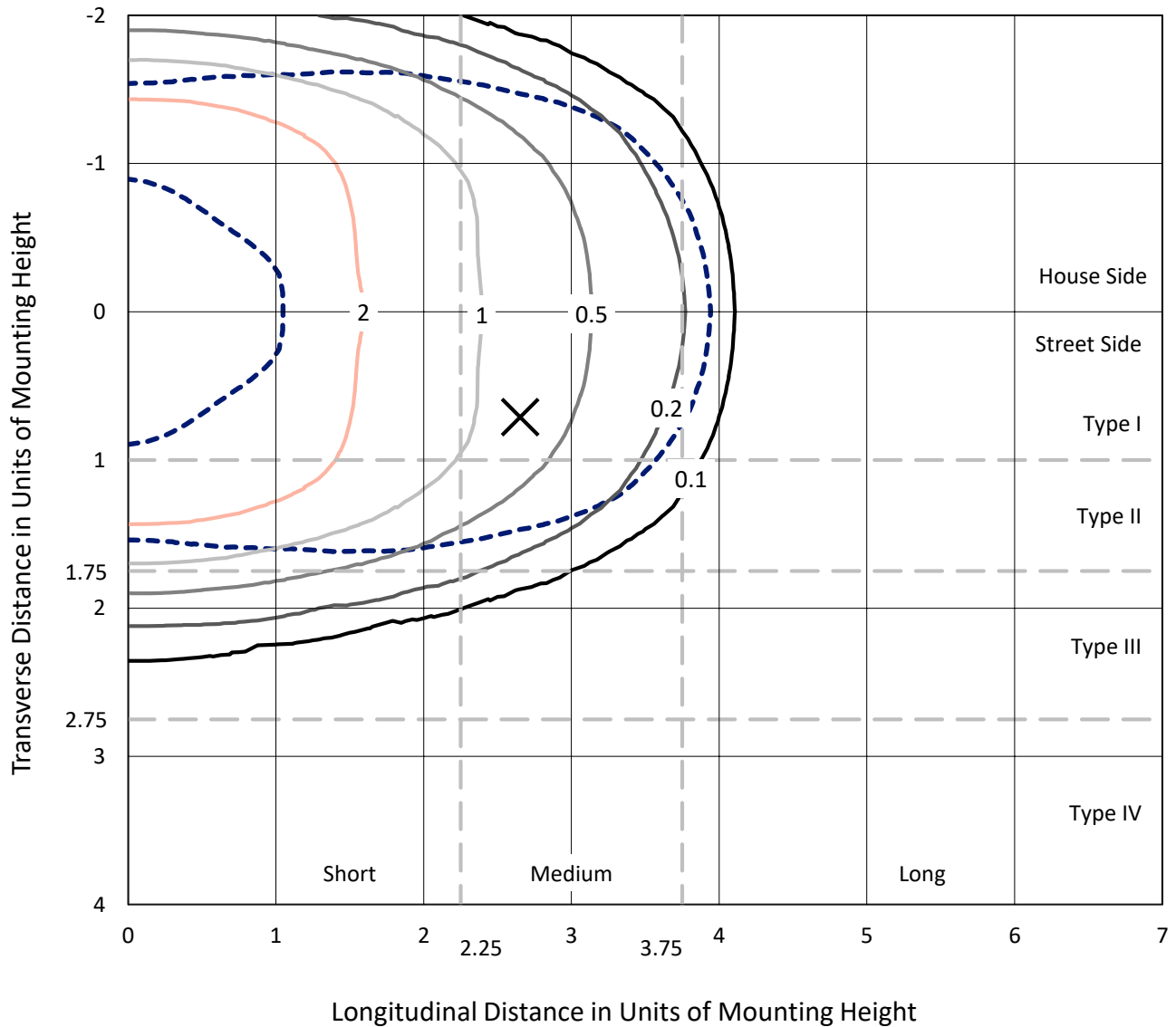
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300640
 CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-800

Iso-Footcandle Lines of Horizontal Illumination

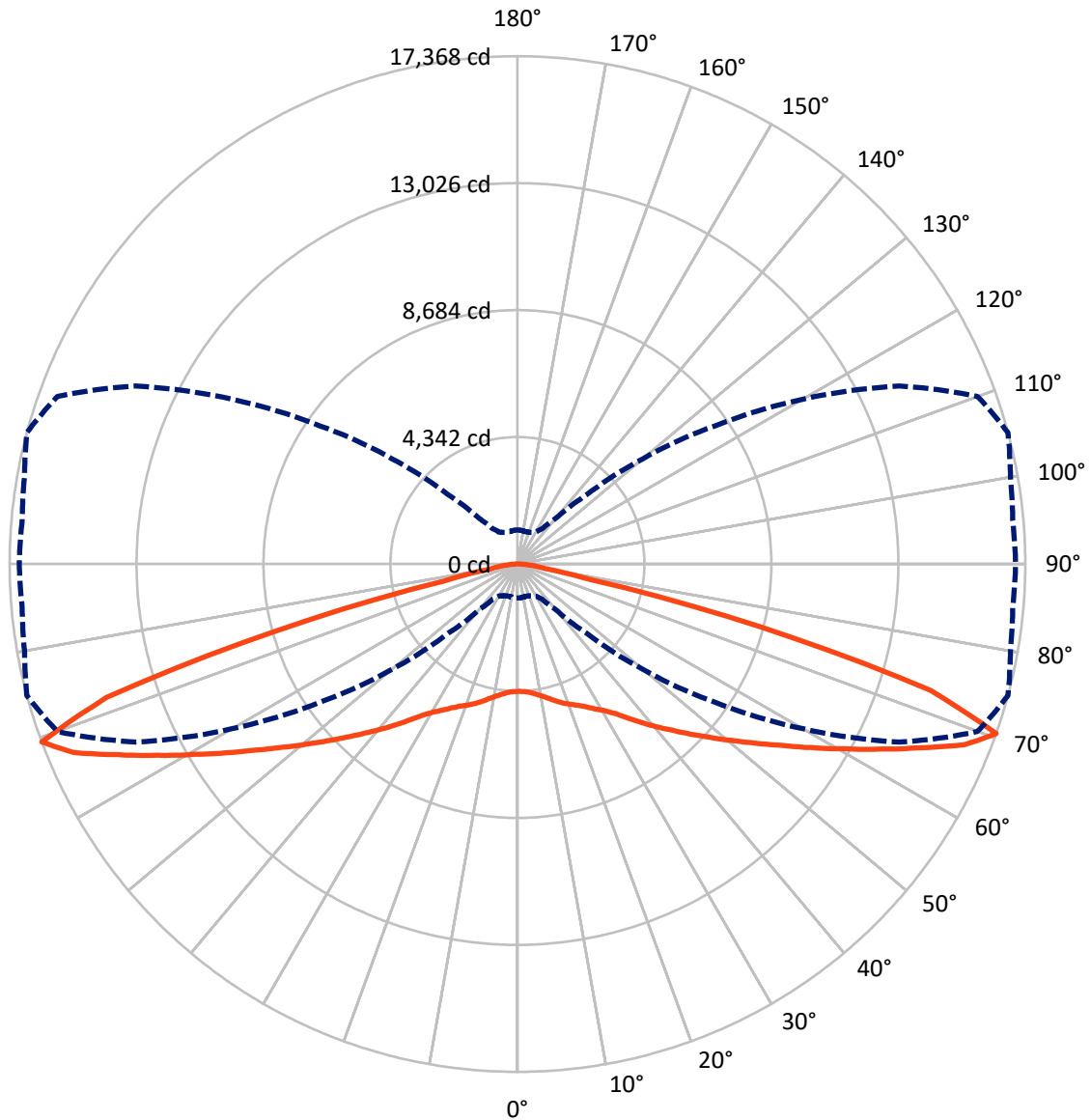
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Full Cutoff

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CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-800

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	19630.4	0.0	19630.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19630.4	0.0	19630.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	39260.8	0.0	39260.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.7	1.1
10°-20°	1297.8	3.3
20°-30°	2442.6	6.2
30°-40°	4325.4	11.0
40°-50°	7233.4	18.4
50°-60°	10079.8	25.7
60°-70°	9347.4	23.8
70°-80°	3725.2	9.5
80°-90°	391.6	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°	39260.8	100.0
0°-180°	39260.8	100.0



REPORT NUMBER: P300640

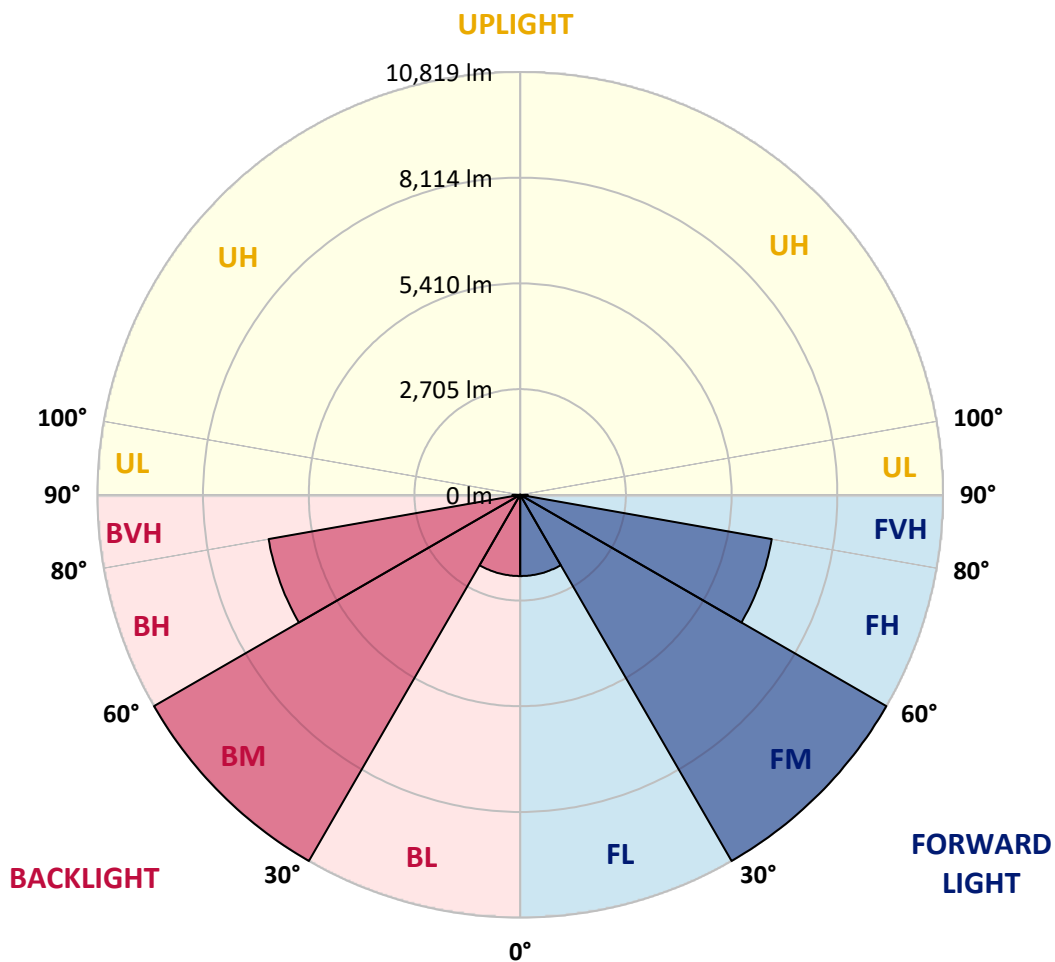
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.0	5.3			
FM	(30°-60°)	10819.3	27.6			
FH	(60°-80°)	6536.3	16.6			G3/7500
FVH	(80°-90°)	195.8	0.5			G2/225
BL	(0°-30°)	2079.0	5.3	B3/2500		
BM	(30°-60°)	10819.3	27.6	B5		
BH	(60°-80°)	6536.3	16.6	B5		G5
BVH	(80°-90°)	195.8	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°	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9
2.5°	4347.5	4343.8	4347.5	4345.7	4349.4	4349.4	4353.1	4360.5	4360.5	4366.1	4364.2
5°	4304.8	4303.0	4308.5	4314.1	4319.7	4330.8	4341.9	4358.6	4371.6	4380.9	4390.2
7.5°	4221.3	4221.3	4228.8	4241.7	4254.7	4278.9	4304.8	4338.2	4371.6	4399.5	4423.6
10°	4152.7	4156.4	4165.7	4187.9	4210.2	4247.3	4282.6	4330.8	4377.2	4423.6	4460.7
12.5°	4111.9	4117.4	4134.1	4167.5	4204.6	4254.7	4308.5	4369.8	4421.7	4477.4	4514.5
15°	4124.8	4128.6	4152.7	4193.5	4241.7	4304.8	4377.2	4449.6	4510.8	4570.2	4620.3
17.5°	4197.2	4202.8	4230.6	4277.0	4327.1	4401.3	4479.3	4560.9	4637.0	4703.8	4765.0
20°	4327.1	4332.7	4367.9	4418.0	4477.4	4553.5	4631.4	4716.8	4802.1	4872.6	4941.3
22.5°	4510.8	4520.1	4553.5	4603.6	4670.4	4752.0	4844.8	4935.7	5017.4	5082.3	5143.5
25°	4752.0	4772.4	4804.0	4859.6	4930.1	5004.4	5104.6	5197.3	5275.3	5336.5	5381.0
27.5°	5093.4	5121.3	5145.4	5199.2	5267.9	5338.4	5438.6	5520.2	5594.4	5653.8	5687.2
30°	5546.2	5574.0	5598.1	5650.1	5713.2	5780.0	5874.6	5947.0	5993.4	6039.8	6037.9
32.5°	6095.4	6125.1	6134.4	6190.1	6255.0	6327.4	6412.7	6453.5	6490.7	6496.2	6462.8
35°	6709.6	6724.4	6761.6	6835.8	6910.0	6969.4	7051.0	7071.4	7071.4	7043.6	6969.4
37.5°	7383.2	7392.4	7444.4	7527.9	7604.0	7665.2	7720.9	7761.7	7741.3	7681.9	7557.6
40°	8121.7	8138.4	8212.6	8286.8	8372.2	8429.7	8489.1	8496.5	8476.1	8388.9	8220.0
42.5°	8826.8	8841.6	8915.8	9032.7	9144.1	9223.8	9279.5	9290.6	9225.7	9145.9	8936.2
45°	9433.5	9472.5	9569.0	9706.3	9867.7	9980.9	10057.0	10088.5	10031.0	9927.1	9684.0
47.5°	9914.1	9953.1	10090.4	10253.7	10454.1	10637.8	10763.9	10830.7	10815.9	10738.0	10472.6
50°	10266.7	10303.8	10452.2	10652.6	10886.4	11114.6	11329.9	11489.5	11545.1	11509.9	11266.8
52.5°	10307.5	10368.7	10543.1	10812.2	11116.5	11428.2	11734.4	12005.3	12189.0	12216.8	12036.8
55°	9737.8	9799.1	10040.3	10439.2	10892.0	11400.4	11890.2	12346.7	12708.5	12894.1	12799.5
57.5°	8394.4	8503.9	8758.1	9225.7	9891.8	10652.6	11433.8	12244.7	12981.3	13473.0	13567.7
60°	6433.1	6563.0	6819.1	7316.4	8058.6	8965.9	10008.7	11207.4	12508.1	13614.0	14274.6
62.5°	4126.7	4249.2	4518.2	4950.6	5555.5	6538.9	7657.8	9081.0	10828.9	12574.9	14148.4
65°	2120.9	2187.7	2328.7	2590.3	3061.6	3796.4	4800.3	6219.7	8218.2	10372.4	12647.3
67.5°	1343.4	1356.4	1387.9	1425.0	1545.7	1799.9	2267.5	3152.5	4796.6	7043.6	9706.3
70°	1161.6	1161.6	1146.7	1141.2	1156.0	1191.3	1263.6	1469.6	2024.4	3343.7	5598.1
72.5°	1063.2	1052.1	1026.1	1005.7	1002.0	1002.0	1016.8	1048.4	1137.4	1362.0	2191.4
75°	979.7	948.2	912.9	888.8	879.5	870.2	868.4	874.0	892.5	927.8	1046.5
77.5°	877.7	836.8	796.0	771.9	760.8	747.8	736.6	723.7	714.4	725.5	777.5
80°	755.2	708.8	677.3	662.4	651.3	632.7	608.6	586.3	565.9	562.2	593.8
82.5°	608.6	554.8	556.7	562.2	541.8	515.8	489.9	465.7	430.5	411.9	430.5
85°	491.7	463.9	450.9	486.1	456.5	417.5	376.7	334.0	278.3	233.8	254.2
87.5°	191.1	191.1	285.8	439.8	395.2	322.9	276.5	235.7	146.6	113.2	115.0
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: P300640

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9
2.5°	4362.4	4366.1	4364.2	4362.4	4362.4	4360.5	4362.4	4362.4
5°	4395.8	4405.0	4405.0	4408.7	4408.7	4410.6	4412.5	4410.6
7.5°	4445.9	4462.6	4473.7	4486.7	4488.5	4490.4	4494.1	4490.4
10°	4496.0	4529.4	4553.5	4577.6	4588.7	4592.4	4596.2	4596.2
12.5°	4559.0	4605.4	4648.1	4690.8	4711.2	4722.3	4722.3	4729.8
15°	4663.0	4709.3	4759.4	4817.0	4852.2	4870.8	4876.3	4876.3
17.5°	4809.5	4850.4	4893.0	4948.7	4993.2	5017.4	5022.9	5021.1
20°	4980.2	5019.2	5043.3	5078.6	5117.6	5145.4	5152.8	5152.8
22.5°	5175.1	5197.3	5201.1	5212.2	5243.7	5280.8	5297.5	5301.3
25°	5390.3	5395.9	5381.0	5381.0	5401.5	5436.7	5453.4	5455.3
27.5°	5668.7	5640.8	5603.7	5590.7	5603.7	5644.5	5664.9	5672.4
30°	6015.6	5948.8	5863.5	5817.1	5809.7	5863.5	5900.6	5906.2
32.5°	6412.7	6316.2	6203.0	6108.4	6084.3	6117.7	6162.2	6160.4
35°	6884.0	6769.0	6631.7	6511.1	6455.4	6488.8	6551.9	6559.3
37.5°	7427.7	7277.4	7119.7	6967.5	6880.3	6889.6	6956.4	6978.7
40°	8034.5	7839.6	7641.1	7437.0	7312.7	7288.5	7370.2	7383.2
42.5°	8683.9	8433.4	8182.9	7930.5	7771.0	7733.9	7828.5	7822.9
45°	9376.0	9056.9	8763.7	8485.3	8296.1	8240.4	8318.4	8318.4
47.5°	10120.1	9726.7	9377.9	9062.4	8856.5	8776.7	8850.9	8856.5
50°	10908.7	10491.2	10081.1	9730.4	9483.6	9381.6	9478.1	9492.9
52.5°	11693.6	11287.2	10873.4	10472.6	10173.9	10049.6	10160.9	10209.1
55°	12489.6	12090.6	11695.4	11303.9	10949.5	10802.9	10921.7	10982.9
57.5°	13330.1	12960.9	12584.2	12189.0	11847.6	11619.3	11745.5	11827.2
60°	14315.4	14000.0	13608.5	13172.4	12827.3	12595.4	12667.7	12740.1
62.5°	15094.8	15217.2	14885.1	14380.4	13936.9	13640.0	13710.5	13786.6
65°	14718.1	15974.3	16269.3	15759.0	15144.9	14682.8	14653.1	14692.1
67.5°	12302.2	14742.2	16521.7	17007.8	16493.8	15851.8	15733.1	15790.6
70°	8229.3	11268.6	14408.2	16746.2	17367.8	17119.1	17002.2	17037.5
72.5°	3952.3	6563.0	9774.9	12883.0	14775.6	15644.0	15922.3	16057.8
75°	1445.5	2605.2	4711.2	7099.3	8570.7	9921.5	10802.9	11162.9
77.5°	872.1	1052.1	1504.8	2265.6	2566.2	2872.4	2753.6	2813.0
80°	645.7	729.2	825.7	927.8	961.2	961.2	924.1	894.4
82.5°	452.7	506.6	552.9	608.6	623.5	595.6	489.9	389.7
85°	291.3	315.4	335.9	371.1	361.8	345.1	231.9	206.0
87.5°	133.6	152.2	159.6	176.3	168.9	161.4	115.0	96.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)