

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: P300644

Luminaire Tested: **GLNA-AF-09-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300644
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-09-LED-E1-RW-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K 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: 42362.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 374
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

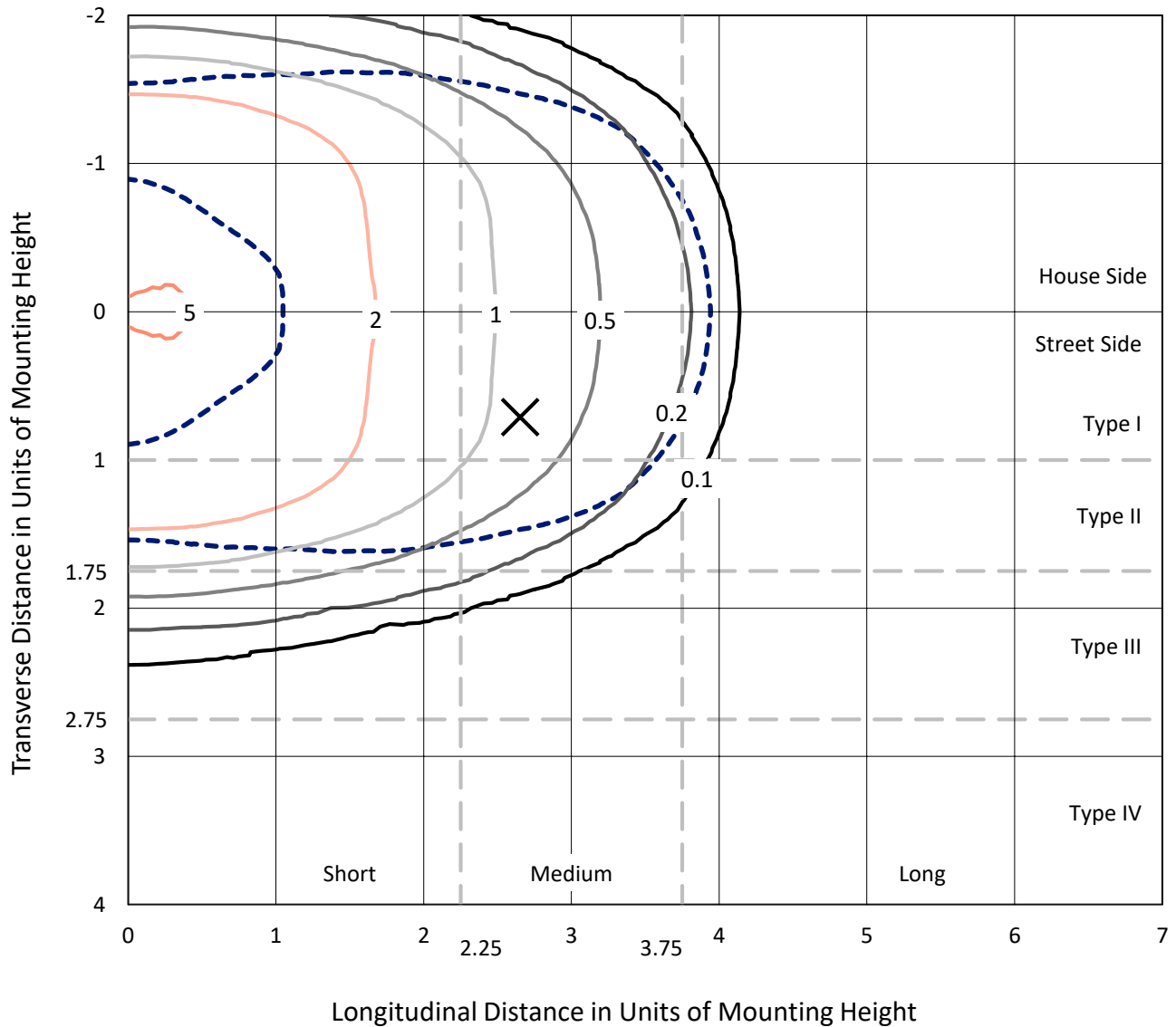


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

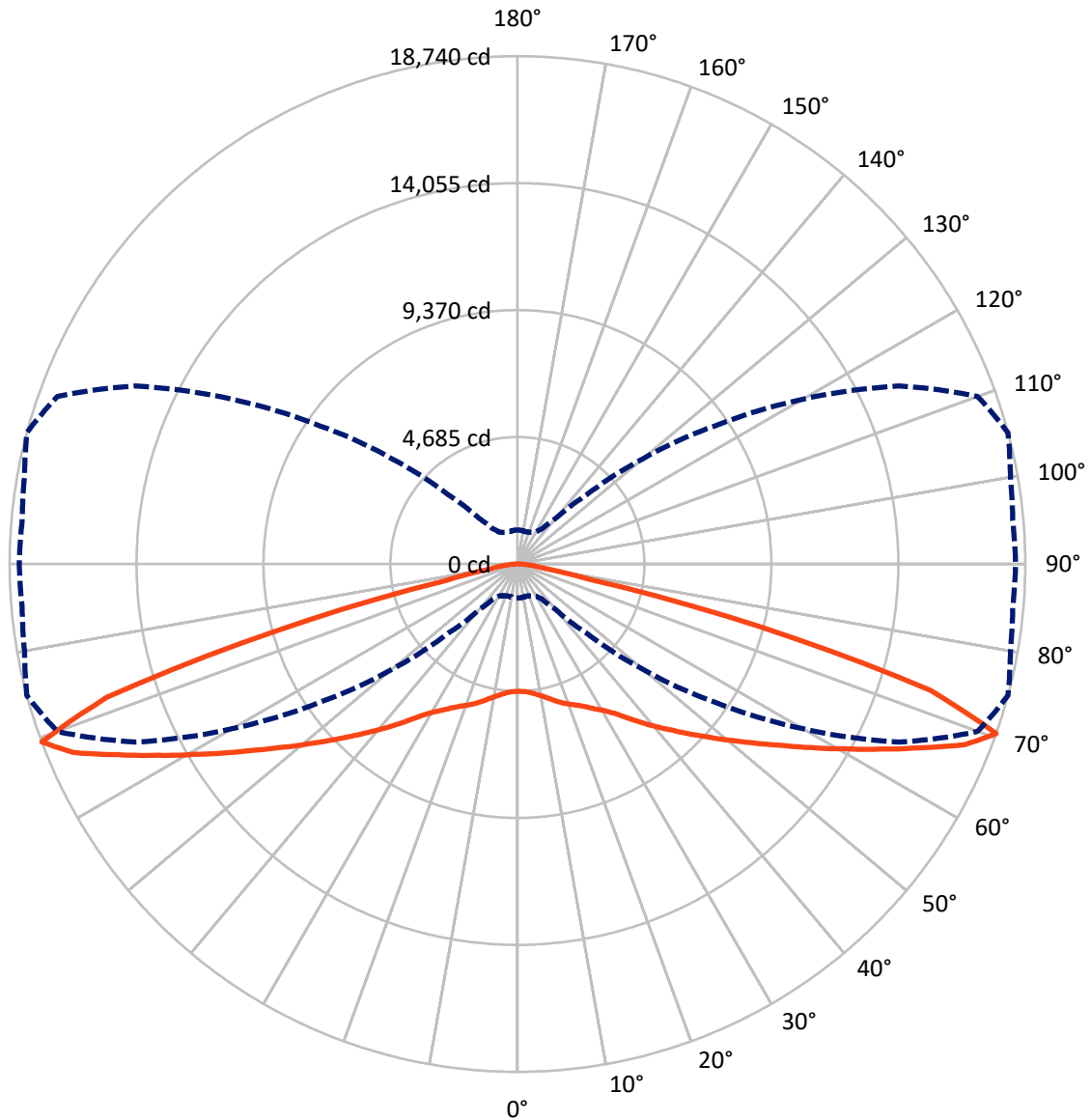


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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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	21181.2	0.0	21181.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21181.2	0.0	21181.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42362.4	0.0	42362.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	1.1
10°-20°	1400.3	3.3
20°-30°	2635.6	6.2
30°-40°	4667.1	11.0
40°-50°	7804.8	18.4
50°-60°	10876.1	25.7
60°-70°	10085.8	23.8
70°-80°	4019.5	9.5
80°-90°	422.5	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°	42362.4	100.0
0°-180°	42362.4	100.0



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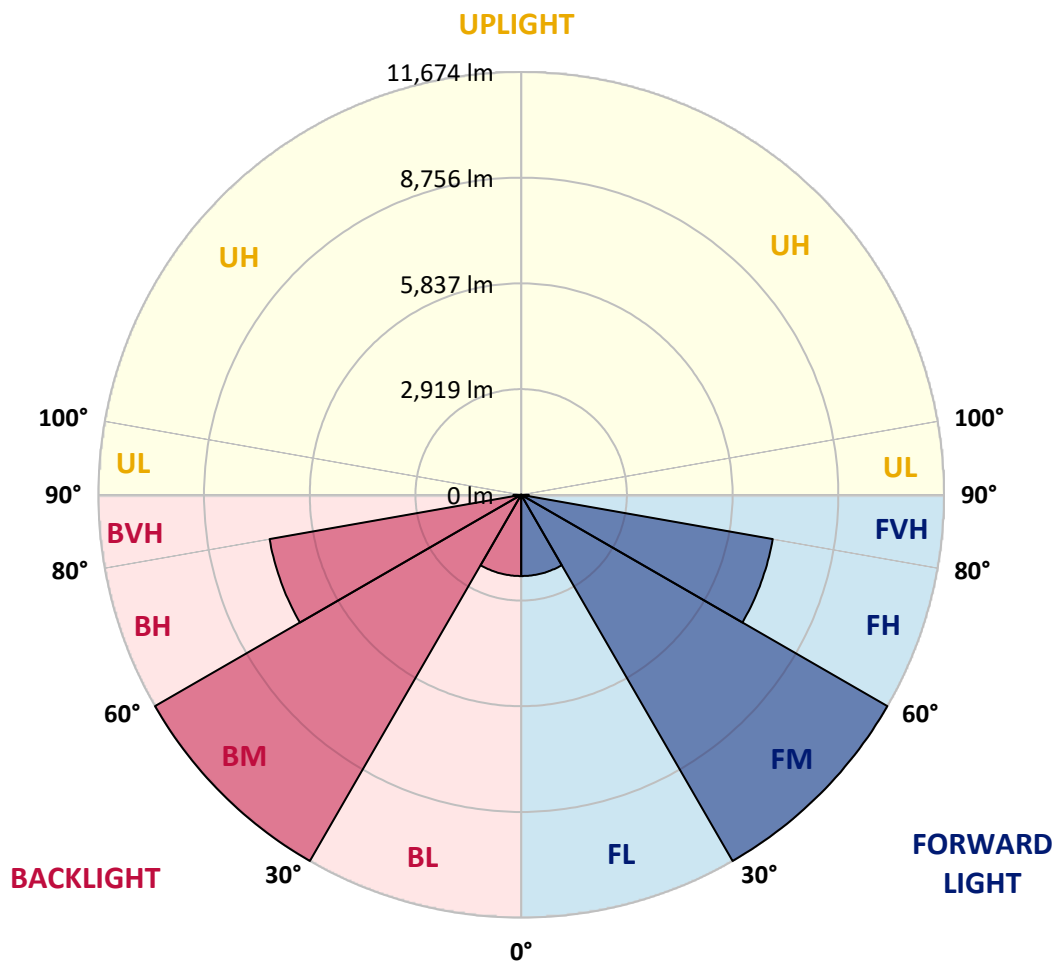
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2243.3	5.3			
FM	(30°-60°)	11674.0	27.6			
FH	(60°-80°)	7052.7	16.6			G3/7500
FVH	(80°-90°)	211.3	0.5			G2/225
BL	(0°-30°)	2243.3	5.3	B3/2500		
BM	(30°-60°)	11674.0	27.6	B5		
BH	(60°-80°)	7052.7	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°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
2.5°	4691.0	4687.0	4691.0	4689.0	4693.0	4693.0	4697.0	4705.0	4705.0	4711.0	4709.0
5°	4644.9	4642.9	4648.9	4654.9	4660.9	4672.9	4685.0	4703.0	4717.0	4727.0	4737.0
7.5°	4554.8	4554.8	4562.8	4576.8	4590.9	4616.9	4644.9	4681.0	4717.0	4747.0	4773.1
10°	4480.7	4484.7	4494.8	4518.8	4542.8	4582.8	4620.9	4672.9	4723.0	4773.1	4813.1
12.5°	4436.7	4442.7	4460.7	4496.8	4536.8	4590.9	4648.9	4715.0	4771.0	4831.1	4871.2
15°	4450.7	4454.7	4480.7	4524.8	4576.8	4644.9	4723.0	4801.1	4867.2	4931.2	4985.3
17.5°	4528.8	4534.8	4564.8	4614.9	4668.9	4749.0	4833.1	4921.2	5003.3	5075.4	5141.4
20°	4668.9	4674.9	4713.0	4767.0	4831.1	4913.2	4997.3	5089.4	5181.5	5257.6	5331.6
22.5°	4867.2	4877.2	4913.2	4967.3	5039.3	5127.4	5227.5	5325.6	5413.7	5483.8	5549.9
25°	5127.4	5149.4	5183.5	5243.5	5319.6	5399.7	5507.8	5607.9	5692.0	5758.1	5806.1
27.5°	5495.8	5525.8	5551.9	5609.9	5684.0	5760.1	5868.2	5956.3	6036.4	6100.5	6136.5
30°	5984.3	6014.4	6040.4	6096.5	6164.5	6236.6	6338.7	6416.8	6466.8	6516.9	6514.9
32.5°	6577.0	6609.0	6619.0	6679.1	6749.1	6827.2	6919.3	6963.4	7003.4	7009.4	6973.4
35°	7239.7	7255.7	7295.7	7375.8	7455.9	7520.0	7608.1	7630.1	7630.1	7600.0	7520.0
37.5°	7966.4	7976.4	8032.5	8122.6	8204.7	8270.8	8330.8	8374.9	8352.8	8288.8	8154.6
40°	8763.3	8781.3	8861.4	8941.5	9033.6	9095.6	9159.7	9167.7	9145.7	9051.6	8869.4
42.5°	9524.1	9540.1	9620.2	9746.3	9866.4	9952.5	10012.6	10024.6	9954.5	9868.4	9642.2
45°	10178.8	10220.8	10324.9	10473.1	10647.3	10769.4	10851.5	10885.5	10823.5	10711.3	10449.1
47.5°	10697.3	10739.4	10887.5	11063.7	11279.9	11478.1	11614.3	11686.4	11670.3	11586.3	11300.0
50°	11077.7	11117.8	11277.9	11494.2	11746.4	11992.7	12224.9	12397.1	12457.2	12419.1	12156.9
52.5°	11121.8	11187.8	11376.0	11666.3	11994.7	12331.0	12661.4	12953.7	13151.9	13181.9	12987.7
55°	10507.1	10573.2	10833.5	11263.9	11752.4	12301.0	12829.6	13322.1	13712.5	13912.7	13810.6
57.5°	9057.6	9175.7	9450.0	9954.5	10673.3	11494.2	12337.1	13212.0	14006.8	14537.4	14639.5
60°	6941.3	7081.5	7357.8	7894.4	8695.2	9674.2	10799.4	12092.8	13496.3	14689.5	15402.3
62.5°	4452.7	4584.9	4875.2	5341.7	5994.3	7055.5	8262.7	9798.4	11684.4	13568.4	15266.2
65°	2288.4	2360.5	2512.7	2795.0	3303.5	4096.3	5179.5	6711.1	8867.4	11191.8	13646.4
67.5°	1449.5	1463.5	1497.6	1537.6	1667.8	1942.1	2446.6	3401.6	5175.5	7600.0	10473.1
70°	1253.3	1253.3	1237.3	1231.3	1247.3	1285.4	1363.4	1585.7	2184.3	3607.8	6040.4
72.5°	1147.2	1135.2	1107.2	1085.1	1081.1	1081.1	1097.2	1131.2	1227.3	1469.6	2364.5
75°	1057.1	1023.1	985.0	959.0	949.0	939.0	937.0	943.0	963.0	1001.1	1129.2
77.5°	947.0	903.0	858.9	832.9	820.9	806.9	794.8	780.8	770.8	782.8	838.9
80°	814.9	764.8	730.8	714.8	702.7	682.7	656.7	632.7	610.6	606.6	640.7
82.5°	656.7	598.6	600.6	606.6	584.6	556.6	528.6	502.5	464.5	444.5	464.5
85°	530.6	500.5	486.5	524.6	492.5	450.5	406.4	360.4	300.3	252.3	274.3
87.5°	206.2	206.2	308.3	474.5	426.5	348.4	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°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
2.5°	4707.0	4711.0	4709.0	4707.0	4707.0	4705.0	4707.0	4707.0
5°	4743.0	4753.0	4753.0	4757.0	4757.0	4759.0	4761.0	4759.0
7.5°	4797.1	4815.1	4827.1	4841.1	4843.1	4845.1	4849.1	4845.1
10°	4851.1	4887.2	4913.2	4939.2	4951.2	4955.2	4959.2	4959.2
12.5°	4919.2	4969.3	5015.3	5061.4	5083.4	5095.4	5095.4	5103.4
15°	5031.3	5081.4	5135.4	5197.5	5235.5	5255.6	5261.6	5261.6
17.5°	5189.5	5233.5	5279.6	5339.7	5387.7	5413.7	5419.7	5417.7
20°	5373.7	5415.7	5441.8	5479.8	5521.8	5551.9	5559.9	5559.9
22.5°	5583.9	5607.9	5611.9	5624.0	5658.0	5698.0	5716.0	5720.1
25°	5816.2	5822.2	5806.1	5806.1	5828.2	5866.2	5884.2	5886.2
27.5°	6116.5	6086.4	6046.4	6032.4	6046.4	6090.4	6112.5	6120.5
30°	6490.9	6418.8	6326.7	6276.6	6268.6	6326.7	6366.7	6372.7
32.5°	6919.3	6815.2	6693.1	6591.0	6564.9	6601.0	6649.0	6647.0
35°	7427.9	7303.7	7155.6	7025.4	6965.4	7001.4	7069.5	7077.5
37.5°	8014.5	7852.3	7682.1	7518.0	7423.9	7433.9	7505.9	7530.0
40°	8669.2	8459.0	8244.7	8024.5	7890.3	7864.3	7952.4	7966.4
42.5°	9369.9	9099.6	8829.3	8557.1	8384.9	8344.8	8446.9	8440.9
45°	10116.7	9772.3	9456.0	9155.7	8951.5	8891.4	8975.5	8975.5
47.5°	10919.6	10495.1	10118.7	9778.3	9556.1	9470.0	9550.1	9556.1
50°	11770.5	11320.0	10877.5	10499.1	10232.8	10122.7	10226.8	10242.8
52.5°	12617.4	12178.9	11732.4	11300.0	10977.6	10843.5	10963.6	11015.7
55°	13476.3	13045.8	12619.4	12196.9	11814.5	11656.3	11784.5	11850.5
57.5°	14383.2	13984.8	13578.4	13151.9	12783.5	12537.3	12673.4	12761.5
60°	15446.3	15106.0	14683.5	14213.0	13840.6	13590.4	13668.5	13746.5
62.5°	16287.2	16419.4	16061.0	15516.4	15037.9	14717.6	14793.7	14875.7
65°	15880.8	17236.2	17554.6	17004.0	16341.3	15842.8	15810.7	15852.8
67.5°	13274.0	15906.8	17826.9	18351.4	17796.8	17104.1	16976.0	17038.0
70°	8879.4	12158.9	15546.5	18069.1	18739.8	18471.5	18345.4	18383.5
72.5°	4264.5	7081.5	10547.2	13900.7	15942.9	16879.9	17180.2	17326.3
75°	1559.7	2811.0	5083.4	7660.1	9247.8	10705.3	11656.3	12044.7
77.5°	941.0	1135.2	1623.7	2444.6	2768.9	3099.3	2971.1	3035.2
80°	696.7	786.8	890.9	1001.1	1037.1	1037.1	997.1	965.0
82.5°	488.5	546.6	596.6	656.7	672.7	642.7	528.6	420.4
85°	314.3	340.4	362.4	400.4	390.4	372.4	250.3	222.2
87.5°	144.2	164.2	172.2	190.2	182.2	174.2	124.1	104.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)