

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: P269623

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269623
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-09-LED-E1-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38183.6 lumens
Efficiency: N/A
Efficacy: 102.1 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

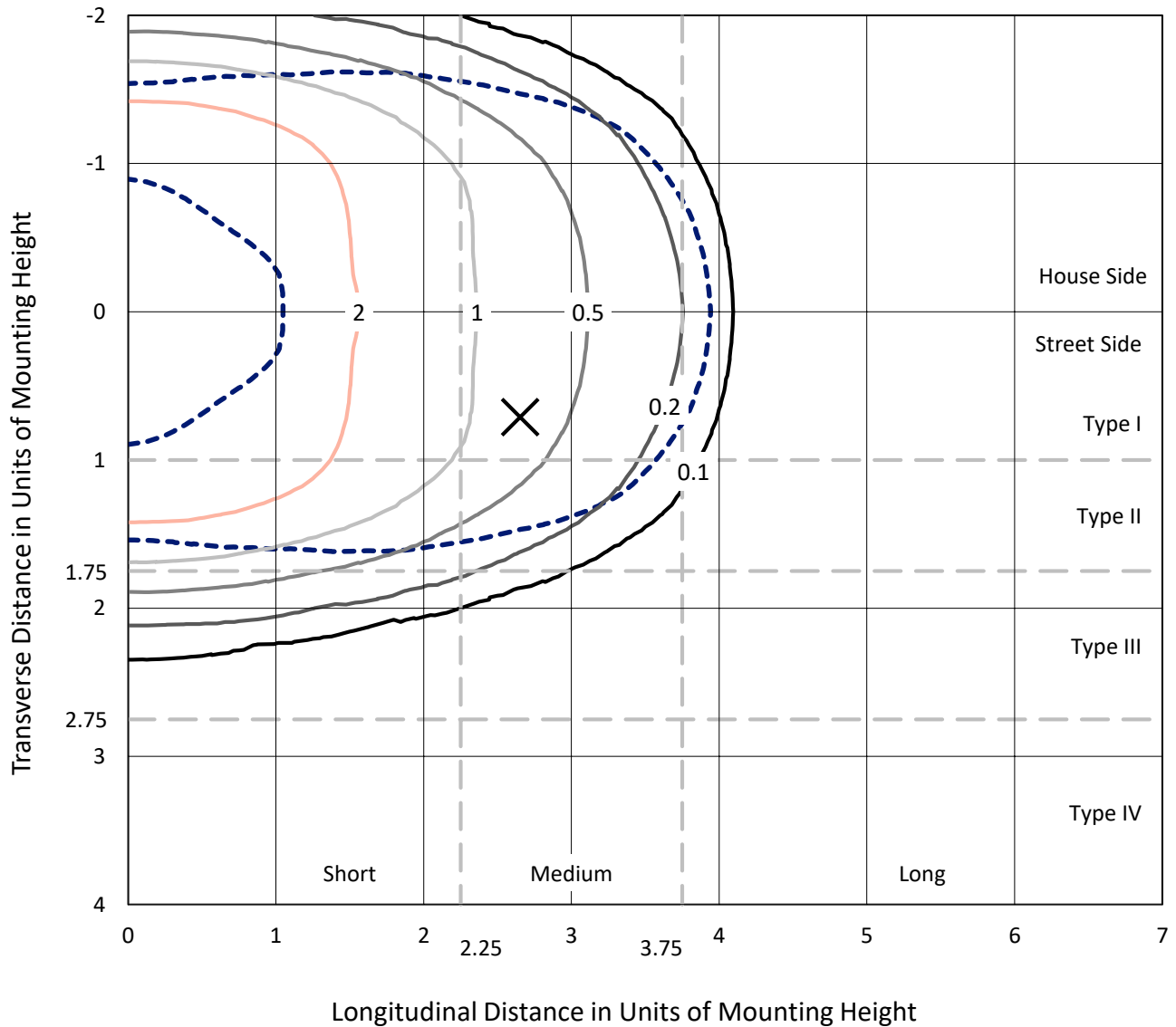


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

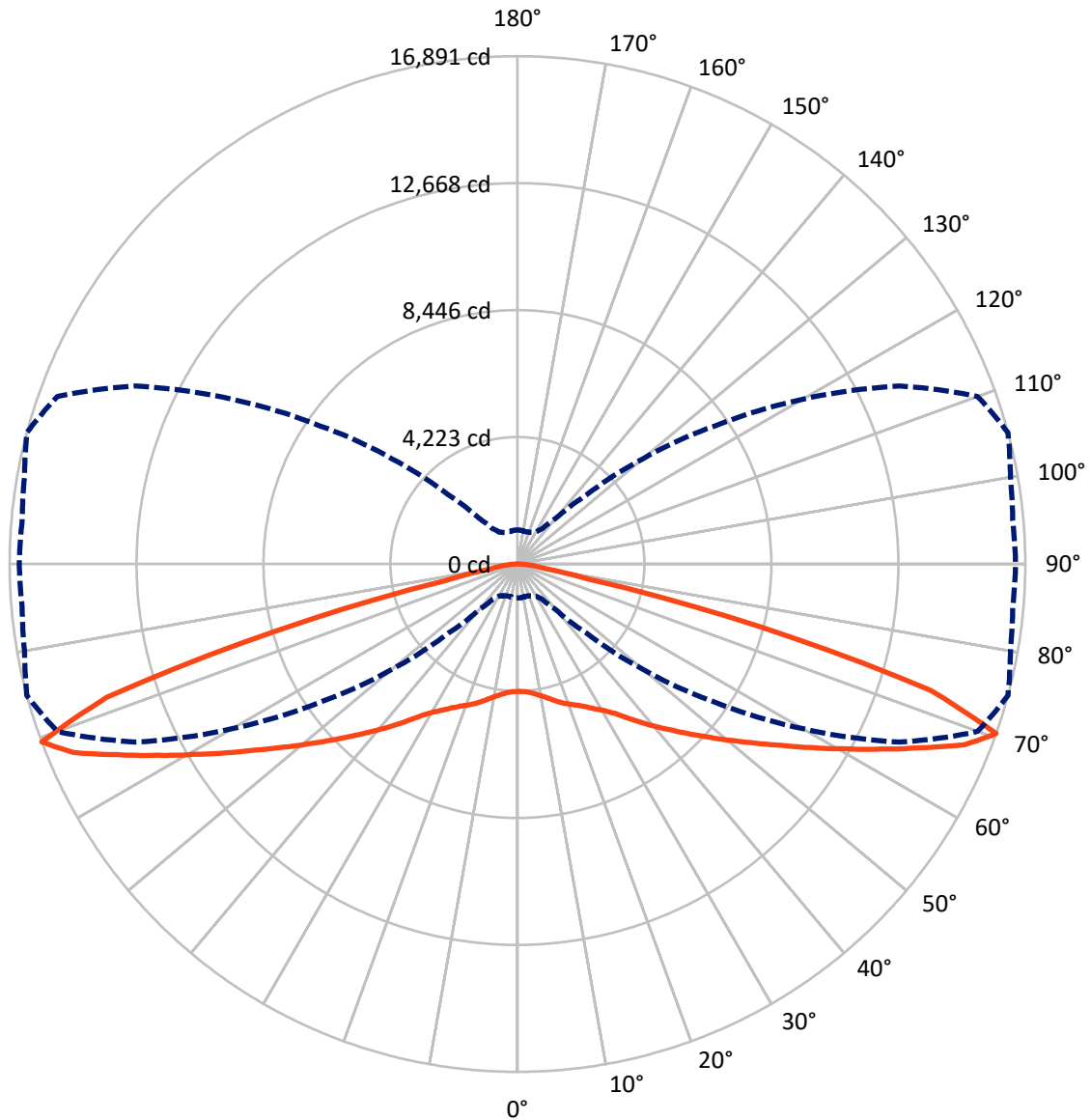


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - Full Cutoff

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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	19091.8	0.0	19091.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19091.8	0.0	19091.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	38183.6	0.0	38183.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.1
10°-20°	1262.2	3.3
20°-30°	2375.6	6.2
30°-40°	4206.7	11.0
40°-50°	7034.9	18.4
50°-60°	9803.2	25.7
60°-70°	9090.9	23.8
70°-80°	3623.0	9.5
80°-90°	380.8	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°	38183.6	100.0
0°-180°	38183.6	100.0



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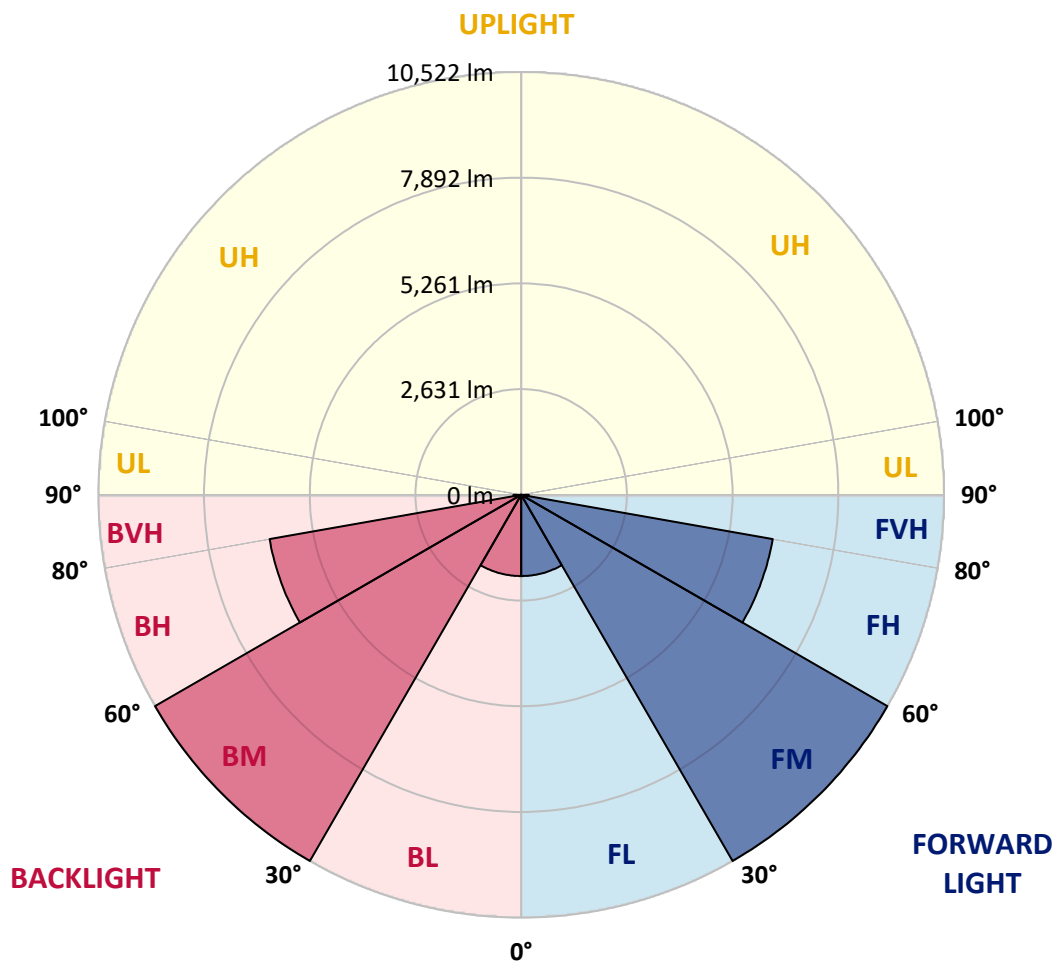
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2022.0	5.3			
FM	(30°-60°)	10522.4	27.6			
FH	(60°-80°)	6357.0	16.6			G3/7500
FVH	(80°-90°)	190.4	0.5			G2/225
BL	(0°-30°)	2022.0	5.3	B3/2500		
BM	(30°-60°)	10522.4	27.6	B5		
BH	(60°-80°)	6357.0	16.6	B5		G5
BVH	(80°-90°)	190.4	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°	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5
2.5°	4228.2	4224.5	4228.2	4226.4	4229.9	4229.9	4233.6	4240.9	4240.9	4246.3	4244.5
5°	4186.7	4184.9	4190.4	4195.8	4201.2	4212.1	4222.8	4239.0	4251.7	4260.8	4269.7
7.5°	4105.6	4105.6	4112.7	4125.3	4138.0	4161.5	4186.7	4219.2	4251.7	4278.7	4302.3
10°	4038.7	4042.4	4051.4	4073.1	4094.7	4130.8	4165.1	4212.1	4257.1	4302.3	4338.4
12.5°	3999.1	4004.5	4020.8	4053.2	4089.3	4138.0	4190.4	4249.9	4300.5	4354.5	4390.6
15°	4011.7	4015.2	4038.7	4078.5	4125.3	4186.7	4257.1	4327.4	4387.1	4444.8	4493.5
17.5°	4082.1	4087.5	4114.5	4159.6	4208.4	4280.6	4356.4	4435.8	4509.8	4574.7	4634.3
20°	4208.4	4213.8	4248.1	4296.9	4354.5	4428.6	4504.3	4587.4	4670.4	4738.9	4805.8
22.5°	4387.1	4396.0	4428.6	4477.2	4542.2	4621.6	4711.9	4800.4	4879.8	4942.8	5002.4
25°	4621.6	4641.5	4672.2	4726.3	4794.9	4867.0	4964.6	5054.8	5130.5	5190.0	5233.3
27.5°	4953.8	4980.7	5004.2	5056.6	5123.4	5191.9	5289.3	5368.7	5440.9	5498.6	5531.1
30°	5394.1	5421.1	5444.5	5495.1	5556.5	5621.5	5713.4	5783.7	5828.9	5874.0	5872.2
32.5°	5928.2	5957.1	5966.1	6020.3	6083.4	6153.7	6236.8	6276.5	6312.6	6318.0	6285.5
35°	6525.5	6539.9	6576.0	6648.3	6720.4	6778.2	6857.5	6877.5	6877.5	6850.4	6778.2
37.5°	7180.6	7189.7	7240.1	7321.4	7395.3	7454.9	7509.0	7548.7	7528.9	7471.2	7350.2
40°	7898.8	7915.1	7987.3	8059.5	8142.4	8198.4	8256.1	8263.4	8243.4	8158.6	7994.5
42.5°	8584.7	8599.0	8671.2	8784.9	8893.2	8970.7	9024.9	9035.7	8972.6	8894.9	8691.0
45°	9174.7	9212.6	9306.4	9440.0	9597.0	9707.1	9781.0	9811.7	9755.9	9654.8	9418.3
47.5°	9642.0	9680.0	9813.5	9972.4	10167.2	10345.9	10468.6	10533.5	10519.2	10443.3	10185.3
50°	9985.0	10021.0	10165.4	10360.3	10587.8	10809.7	11019.0	11174.1	11228.4	11194.0	10957.6
52.5°	10024.6	10084.3	10253.9	10515.5	10811.6	11114.6	11412.4	11675.9	11854.6	11881.6	11706.6
55°	9470.7	9530.2	9764.8	10152.9	10593.2	11087.6	11564.1	12008.0	12359.9	12540.2	12448.4
57.5°	8164.1	8270.5	8517.8	8972.6	9620.5	10360.3	11120.1	11908.7	12625.0	13103.3	13195.5
60°	6256.6	6382.9	6631.9	7115.7	7837.4	8719.9	9734.2	10899.9	12164.9	13240.5	13882.9
62.5°	4013.4	4132.7	4394.2	4814.7	5403.0	6359.6	7447.7	8831.9	10531.8	12230.0	13760.2
65°	2062.7	2127.6	2264.7	2519.2	2977.6	3692.3	4668.5	6049.0	7992.7	10087.8	12300.3
67.5°	1306.6	1319.3	1349.9	1385.9	1503.3	1750.4	2205.2	3066.1	4665.0	6850.4	9440.0
70°	1129.7	1129.7	1115.2	1109.9	1124.3	1158.5	1228.9	1429.3	1968.8	3252.0	5444.5
72.5°	1034.0	1023.2	997.9	978.2	974.5	974.5	988.9	1019.5	1106.3	1324.6	2131.3
75°	952.8	922.2	887.9	864.3	855.4	846.4	844.5	849.9	868.0	902.3	1017.8
77.5°	853.6	813.9	774.2	750.8	739.9	727.3	716.5	703.8	694.7	705.6	756.2
80°	734.5	689.4	658.6	644.3	633.5	615.3	592.0	570.2	550.4	546.8	577.5
82.5°	592.0	539.6	541.4	546.8	526.9	501.8	476.5	452.9	418.7	400.6	418.7
85°	478.2	451.2	438.6	472.8	443.9	406.0	366.4	324.8	270.7	227.5	247.3
87.5°	185.9	185.9	277.9	427.8	384.4	314.0	269.0	229.2	142.7	110.1	111.8
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°	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5	4235.5
2.5°	4242.6	4246.3	4244.5	4242.6	4242.6	4240.9	4242.6	4242.6
5°	4275.2	4284.1	4284.1	4287.8	4287.8	4289.5	4291.5	4289.5
7.5°	4323.9	4340.2	4350.9	4363.5	4365.4	4367.2	4370.9	4367.2
10°	4372.6	4405.1	4428.6	4452.0	4462.8	4466.5	4470.1	4470.1
12.5°	4433.9	4479.0	4520.6	4562.1	4582.0	4592.8	4592.8	4600.0
15°	4535.1	4580.1	4628.8	4684.8	4719.1	4737.1	4742.5	4742.5
17.5°	4677.6	4717.3	4758.9	4812.8	4856.2	4879.8	4885.2	4883.2
20°	4843.7	4881.5	4904.9	4939.2	4977.1	5004.2	5011.5	5011.5
22.5°	5033.2	5054.8	5058.4	5069.1	5099.9	5136.0	5152.1	5155.8
25°	5242.4	5247.9	5233.3	5233.3	5253.3	5287.6	5303.9	5305.6
27.5°	5513.1	5486.0	5449.9	5437.4	5449.9	5489.6	5509.6	5516.8
30°	5850.7	5785.7	5702.6	5657.4	5650.2	5702.6	5738.7	5744.1
32.5°	6236.8	6142.9	6032.8	5940.9	5917.3	5949.8	5993.1	5991.3
35°	6695.2	6583.3	6449.7	6332.4	6278.3	6310.8	6372.0	6379.4
37.5°	7223.9	7077.7	6924.3	6776.4	6691.6	6700.5	6765.6	6787.1
40°	7813.9	7624.5	7431.4	7233.0	7112.1	7088.5	7167.9	7180.6
42.5°	8445.7	8202.1	7958.4	7712.9	7557.8	7521.7	7613.8	7608.3
45°	9118.8	8808.4	8523.2	8252.5	8068.4	8014.3	8090.1	8090.1
47.5°	9842.4	9459.8	9120.5	8813.8	8613.5	8535.9	8608.1	8613.5
50°	10609.3	10203.3	9804.6	9463.5	9223.3	9124.2	9218.0	9232.4
52.5°	11372.7	10977.5	10575.0	10185.3	9894.7	9773.7	9882.2	9929.1
55°	12146.9	11759.0	11374.5	10993.7	10649.0	10506.4	10622.0	10681.6
57.5°	12964.3	12605.2	12239.0	11854.6	11522.5	11300.6	11423.2	11502.6
60°	13922.7	13615.9	13235.1	12811.0	12475.3	12249.7	12320.2	12390.5
62.5°	14680.6	14799.7	14476.6	13985.8	13554.5	13265.8	13334.4	13408.3
65°	14314.2	15535.9	15822.9	15326.6	14729.2	14279.9	14251.2	14289.0
67.5°	11964.6	14337.7	16068.3	16541.2	16041.3	15416.9	15301.4	15357.3
70°	8003.4	10959.4	14012.9	16286.7	16891.3	16649.5	16535.7	16570.0
72.5°	3843.8	6382.9	9506.8	12529.5	14370.1	15214.8	15485.4	15617.3
75°	1405.8	2533.7	4582.0	6904.6	8335.6	9649.4	10506.4	10856.6
77.5°	848.2	1023.2	1463.6	2203.5	2495.9	2793.5	2678.0	2735.8
80°	628.0	709.2	803.1	902.3	934.7	934.7	898.8	869.7
82.5°	440.3	492.7	537.7	592.0	606.4	579.2	476.5	378.9
85°	283.3	306.9	326.7	360.8	351.9	335.6	225.6	200.3
87.5°	130.0	148.0	155.1	171.4	164.2	157.1	111.8	93.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)