

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: P191815

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191815
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-07-LED-E1-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43037 lumens
Efficiency: N/A
Efficacy: 110.1 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

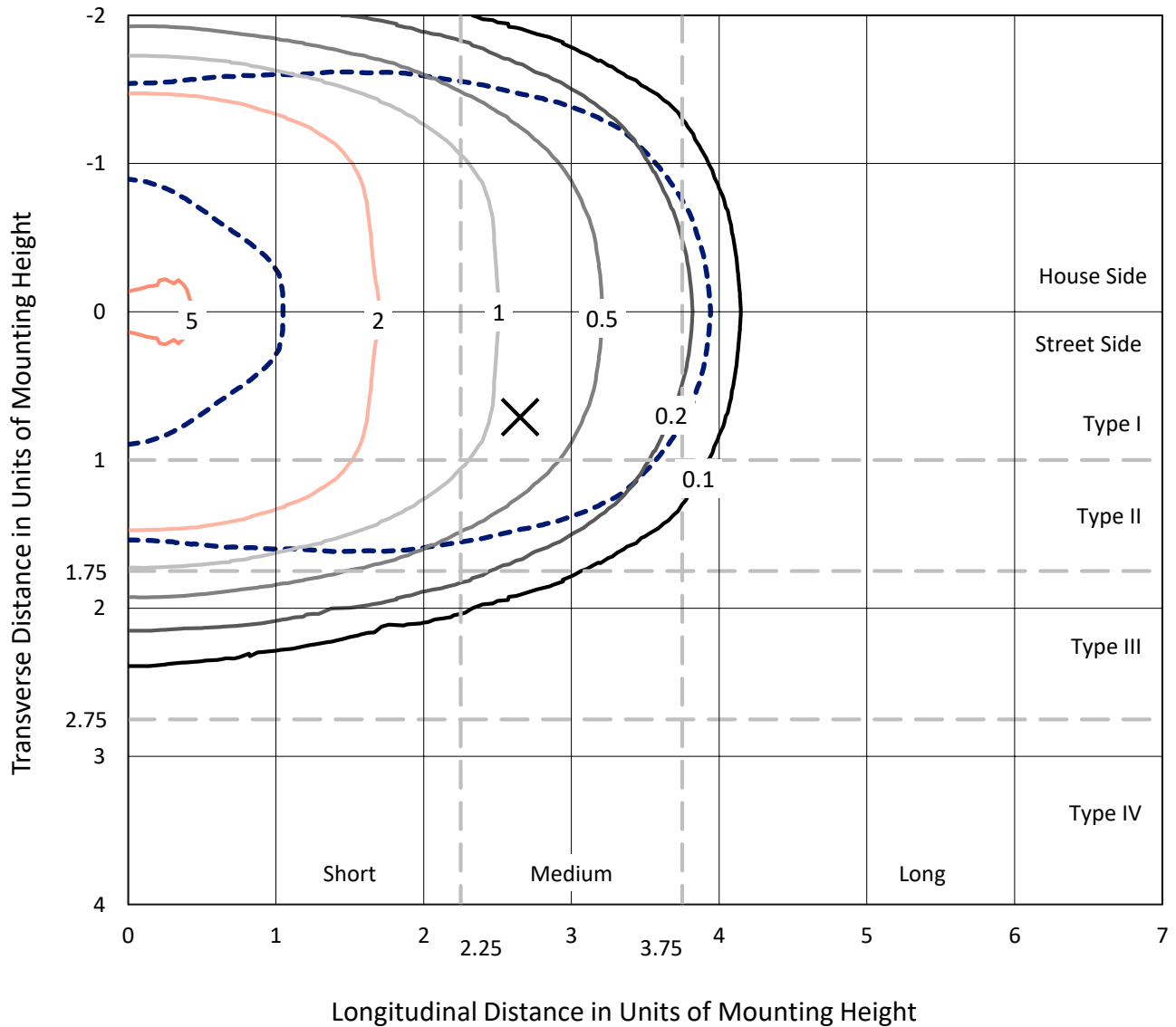
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

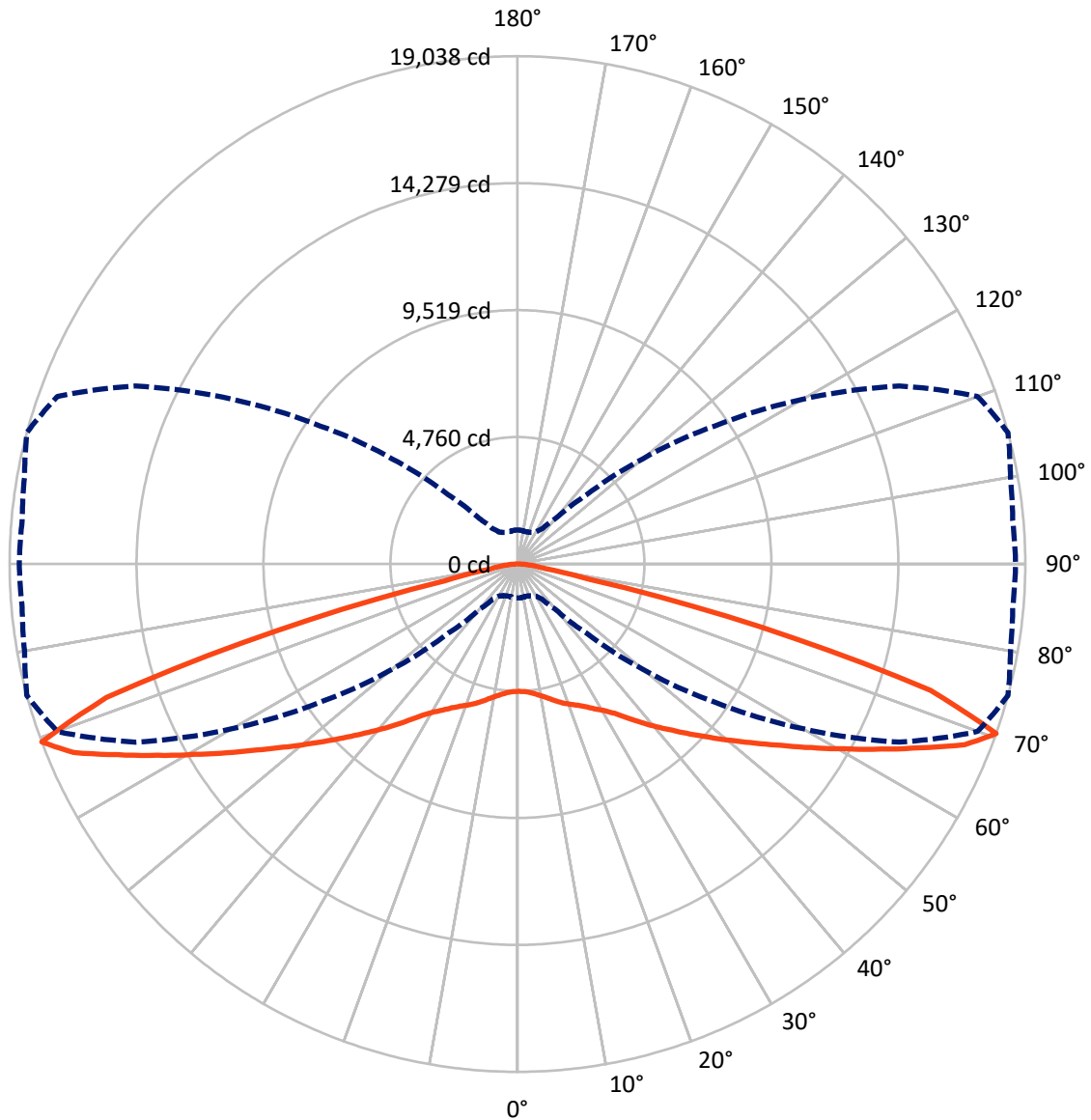
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	21518.5	0.0	21518.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21518.5	0.0	21518.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43037.0	0.0	43037.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	1.1
10°-20°	1422.6	3.3
20°-30°	2677.5	6.2
30°-40°	4741.4	11.0
40°-50°	7929.1	18.4
50°-60°	11049.3	25.7
60°-70°	10246.4	23.8
70°-80°	4083.5	9.5
80°-90°	429.2	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°	43037.0	100.0
0°-180°	43037.0	100.0



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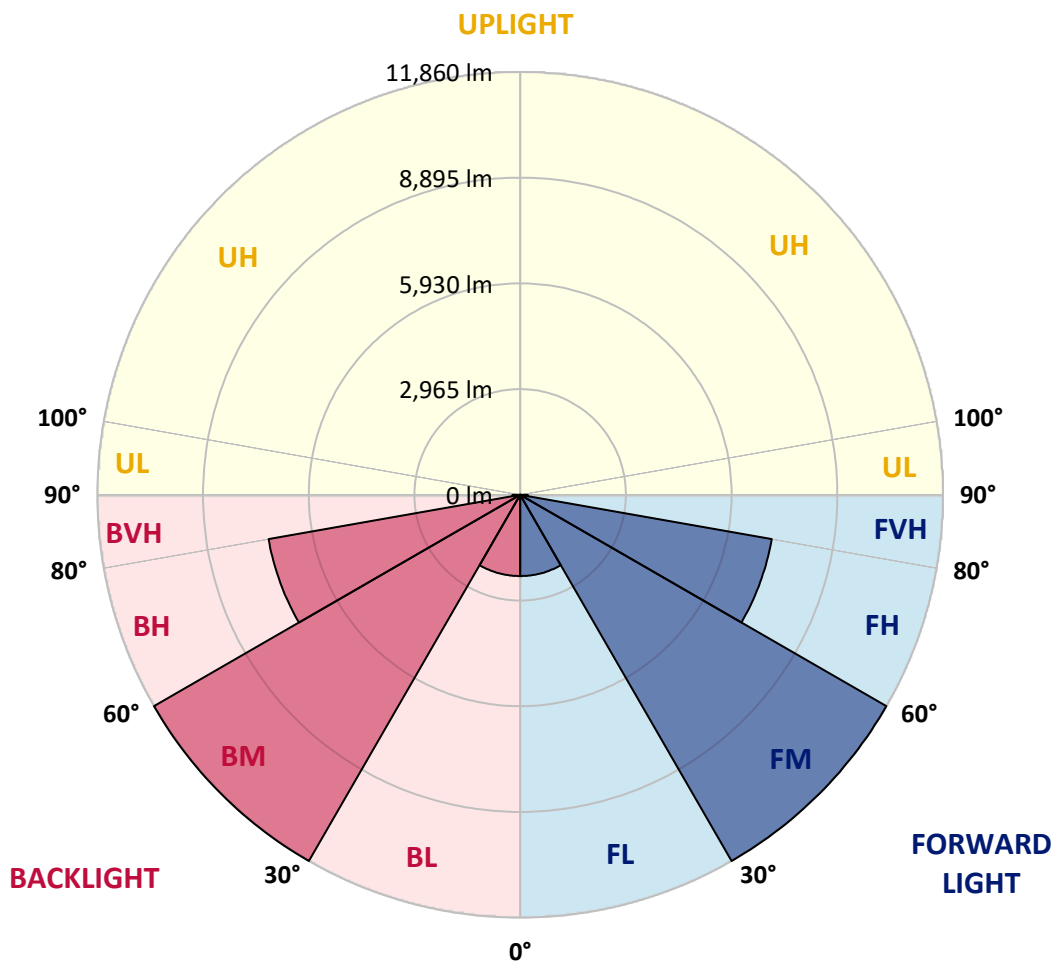
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2279.0	5.3			
FM	(30°-60°)	11859.9	27.6			
FH	(60°-80°)	7165.0	16.6			G3/7500
FVH	(80°-90°)	214.6	0.5			G2/225
BL	(0°-30°)	2279.0	5.3	B3/2500		
BM	(30°-60°)	11859.9	27.6	B5		
BH	(60°-80°)	7165.0	16.6	B5		G5
BVH	(80°-90°)	214.6	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°	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8
2.5°	4765.7	4761.6	4765.7	4763.6	4767.7	4767.7	4771.8	4779.9	4779.9	4786.0	4784.0
5°	4718.9	4716.9	4723.0	4729.1	4735.2	4747.4	4759.6	4777.9	4792.1	4802.3	4812.5
7.5°	4627.4	4627.4	4635.5	4649.7	4664.0	4690.4	4718.9	4755.5	4792.1	4822.6	4849.1
10°	4552.1	4556.2	4566.3	4590.7	4615.2	4655.8	4694.5	4747.4	4798.2	4849.1	4889.7
12.5°	4507.4	4513.5	4531.8	4568.4	4609.1	4664.0	4723.0	4790.1	4847.0	4908.1	4948.7
15°	4521.6	4525.7	4552.1	4596.8	4649.7	4718.9	4798.2	4877.5	4944.7	5009.8	5064.7
17.5°	4600.9	4607.0	4637.5	4688.4	4743.3	4824.7	4910.1	4999.6	5083.0	5156.2	5223.3
20°	4743.3	4749.4	4788.0	4843.0	4908.1	4991.4	5076.9	5170.4	5264.0	5341.3	5416.6
22.5°	4944.7	4954.8	4991.4	5046.4	5119.6	5209.1	5310.8	5410.4	5499.9	5571.1	5638.3
25°	5209.1	5231.5	5266.0	5327.1	5404.3	5485.7	5595.5	5697.2	5782.7	5849.8	5898.6
27.5°	5583.3	5613.8	5640.3	5699.3	5774.5	5851.8	5961.7	6051.2	6132.5	6197.6	6234.2
30°	6079.6	6110.1	6136.6	6193.5	6262.7	6335.9	6439.7	6519.0	6569.8	6620.7	6618.6
32.5°	6681.7	6714.2	6724.4	6785.4	6856.6	6936.0	7029.5	7074.3	7114.9	7121.0	7084.4
35°	7355.0	7371.2	7411.9	7493.3	7574.6	7639.7	7729.2	7751.6	7751.6	7721.1	7639.7
37.5°	8093.3	8103.5	8160.4	8252.0	8335.3	8402.5	8463.5	8508.2	8485.9	8420.8	8284.5
40°	8902.8	8921.1	9002.5	9083.9	9177.4	9240.5	9305.6	9313.7	9291.3	9195.7	9010.6
42.5°	9675.8	9692.0	9773.4	9901.5	10023.6	10111.0	10172.1	10184.3	10113.1	10025.6	9795.8
45°	10340.9	10383.6	10489.4	10639.9	10816.8	10940.9	11024.3	11058.9	10995.8	10881.9	10615.5
47.5°	10867.7	10910.4	11060.9	11239.9	11459.6	11660.9	11799.3	11872.5	11856.2	11770.8	11479.9
50°	11254.1	11294.8	11457.5	11677.2	11933.5	12183.7	12419.6	12594.5	12655.6	12616.9	12350.5
52.5°	11298.9	11366.0	11557.2	11852.1	12185.7	12527.4	12863.0	13160.0	13361.4	13391.9	13194.6
55°	10674.5	10741.6	11006.0	11443.3	11939.6	12496.9	13033.9	13534.3	13930.9	14134.3	14030.6
57.5°	9201.8	9321.8	9600.5	10113.1	10843.3	11677.2	12533.5	13422.4	14229.9	14768.9	14872.6
60°	7051.9	7194.3	7475.0	8020.1	8833.7	9828.3	10971.4	12285.4	13711.2	14923.5	15647.6
62.5°	4523.6	4657.9	4952.8	5426.7	6089.8	7167.8	8394.3	9954.4	11870.4	13784.4	15509.3
65°	2324.9	2398.1	2552.7	2839.5	3356.1	4161.6	5262.0	6818.0	9008.6	11370.1	13863.8
67.5°	1472.6	1486.9	1521.4	1562.1	1694.3	1973.0	2485.6	3455.8	5257.9	7721.1	10639.9
70°	1273.3	1273.3	1257.0	1250.9	1267.2	1305.8	1385.2	1610.9	2219.1	3665.3	6136.6
72.5°	1165.5	1153.3	1124.8	1102.4	1098.4	1098.4	1114.6	1149.2	1246.8	1493.0	2402.2
75°	1074.0	1039.4	1000.7	974.3	964.1	953.9	951.9	958.0	978.4	1017.0	1147.2
77.5°	962.1	917.3	872.6	846.1	833.9	819.7	807.5	793.3	783.1	795.3	852.2
80°	827.8	777.0	742.4	726.1	713.9	693.6	667.2	642.7	620.4	616.3	650.9
82.5°	667.2	608.2	610.2	616.3	593.9	565.5	537.0	510.5	471.9	451.5	471.9
85°	539.0	508.5	494.3	532.9	500.4	457.7	412.9	366.1	305.1	256.3	278.7
87.5°	209.5	209.5	313.2	482.1	433.2	353.9	303.1	258.3	160.7	124.1	126.1
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°	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8	4773.8
2.5°	4781.9	4786.0	4784.0	4781.9	4781.9	4779.9	4781.9	4781.9
5°	4818.6	4828.7	4828.7	4832.8	4832.8	4834.8	4836.9	4834.8
7.5°	4873.5	4891.8	4904.0	4918.2	4920.3	4922.3	4926.4	4922.3
10°	4928.4	4965.0	4991.4	5017.9	5030.1	5034.2	5038.2	5038.2
12.5°	4997.5	5048.4	5095.2	5142.0	5164.3	5176.5	5176.5	5184.7
15°	5111.5	5162.3	5217.2	5280.3	5318.9	5339.3	5345.4	5345.4
17.5°	5272.1	5316.9	5363.7	5424.7	5473.5	5499.9	5506.0	5504.0
20°	5459.3	5502.0	5528.4	5567.1	5609.8	5640.3	5648.4	5648.4
22.5°	5672.8	5697.2	5701.3	5713.5	5748.1	5788.8	5807.1	5811.1
25°	5908.8	5914.9	5898.6	5898.6	5921.0	5959.6	5977.9	5980.0
27.5°	6213.9	6183.4	6142.7	6128.5	6142.7	6187.4	6209.8	6217.9
30°	6594.2	6521.0	6427.5	6376.6	6368.5	6427.5	6468.1	6474.2
32.5°	7029.5	6923.7	6799.7	6695.9	6669.5	6706.1	6754.9	6752.9
35°	7546.2	7420.0	7269.5	7137.3	7076.3	7112.9	7182.1	7190.2
37.5°	8142.1	7977.4	7804.5	7637.7	7542.1	7552.3	7625.5	7649.9
40°	8807.2	8593.7	8376.0	8152.3	8016.0	7989.6	8079.1	8093.3
42.5°	9519.1	9244.5	8970.0	8693.3	8518.4	8477.7	8581.5	8575.4
45°	10277.8	9928.0	9606.6	9301.5	9094.0	9033.0	9118.4	9118.4
47.5°	11093.5	10662.2	10279.9	9934.1	9708.3	9620.8	9702.2	9708.3
50°	11957.9	11500.3	11050.7	10666.3	10395.8	10283.9	10389.7	10406.0
52.5°	12818.3	12372.8	11919.3	11479.9	11152.4	11016.2	11138.2	11191.1
55°	13690.9	13253.6	12820.3	12391.1	12002.7	11842.0	11972.1	12039.3
57.5°	14612.3	14207.5	13794.6	13361.4	12987.1	12736.9	12875.2	12964.7
60°	15692.3	15346.6	14917.4	14439.4	14061.1	13806.8	13886.1	13965.5
62.5°	16546.6	16680.9	16316.8	15763.5	15277.4	14952.0	15029.3	15112.6
65°	16133.7	17510.7	17834.1	17274.8	16601.5	16095.1	16062.5	16105.2
67.5°	13485.4	16160.2	18110.8	18643.7	18080.3	17376.5	17246.3	17309.4
70°	9020.8	12352.5	15794.0	18356.9	19038.3	18765.7	18637.6	18676.2
72.5°	4332.4	7194.3	10715.1	14122.1	16196.8	17148.7	17453.8	17602.3
75°	1584.5	2855.7	5164.3	7782.1	9395.1	10875.8	11842.0	12236.6
77.5°	956.0	1153.3	1649.6	2483.5	2813.0	3148.6	3018.5	3083.5
80°	707.8	799.4	905.1	1017.0	1053.6	1053.6	1012.9	980.4
82.5°	496.3	555.3	606.1	667.2	683.4	652.9	537.0	427.1
85°	319.3	345.8	368.2	406.8	396.6	378.3	254.3	225.8
87.5°	146.4	166.8	174.9	193.2	185.1	177.0	126.1	105.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)