

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: P269384

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269384
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-06-LED-E1-RW-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34683.6 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 382
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

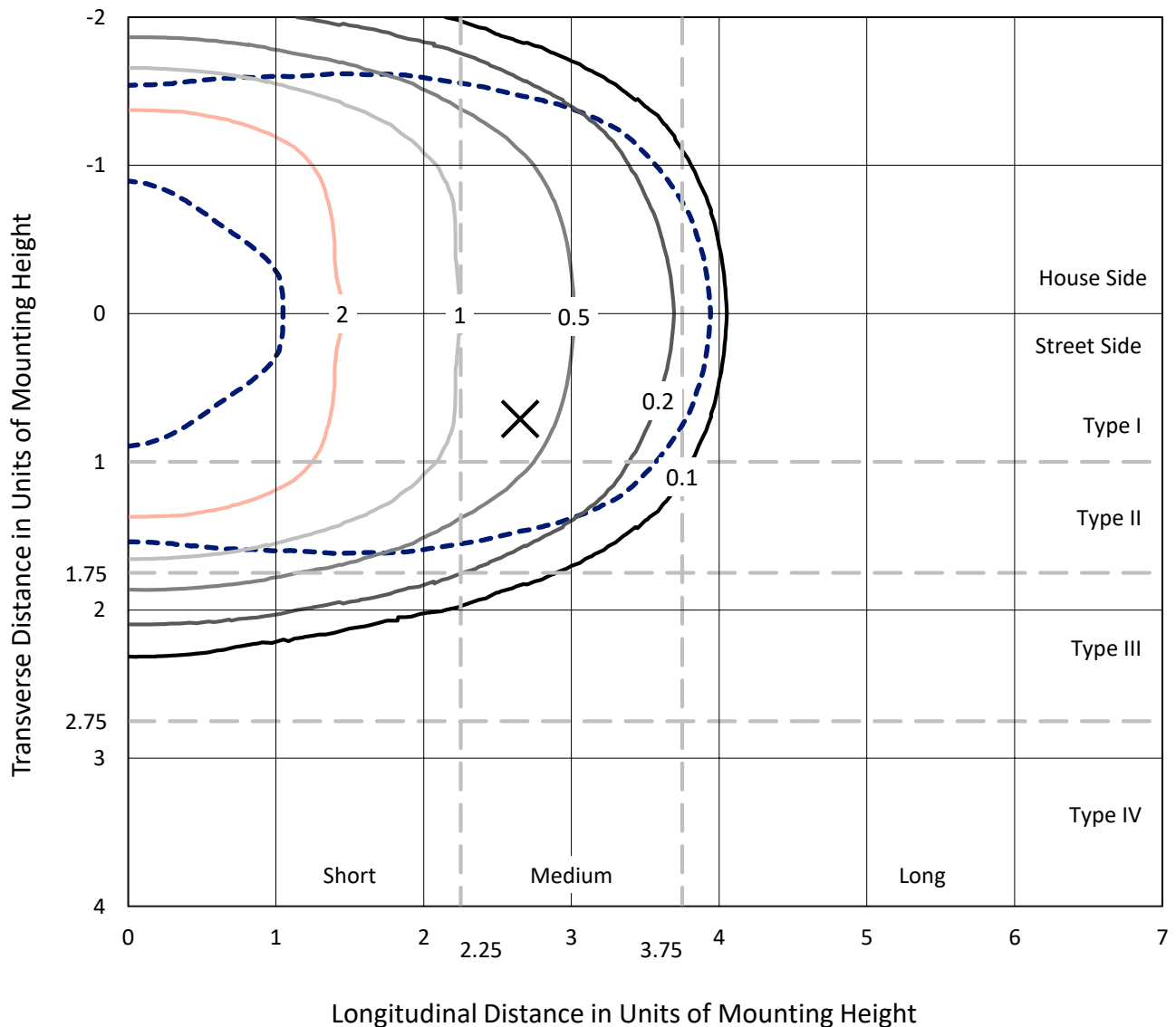


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

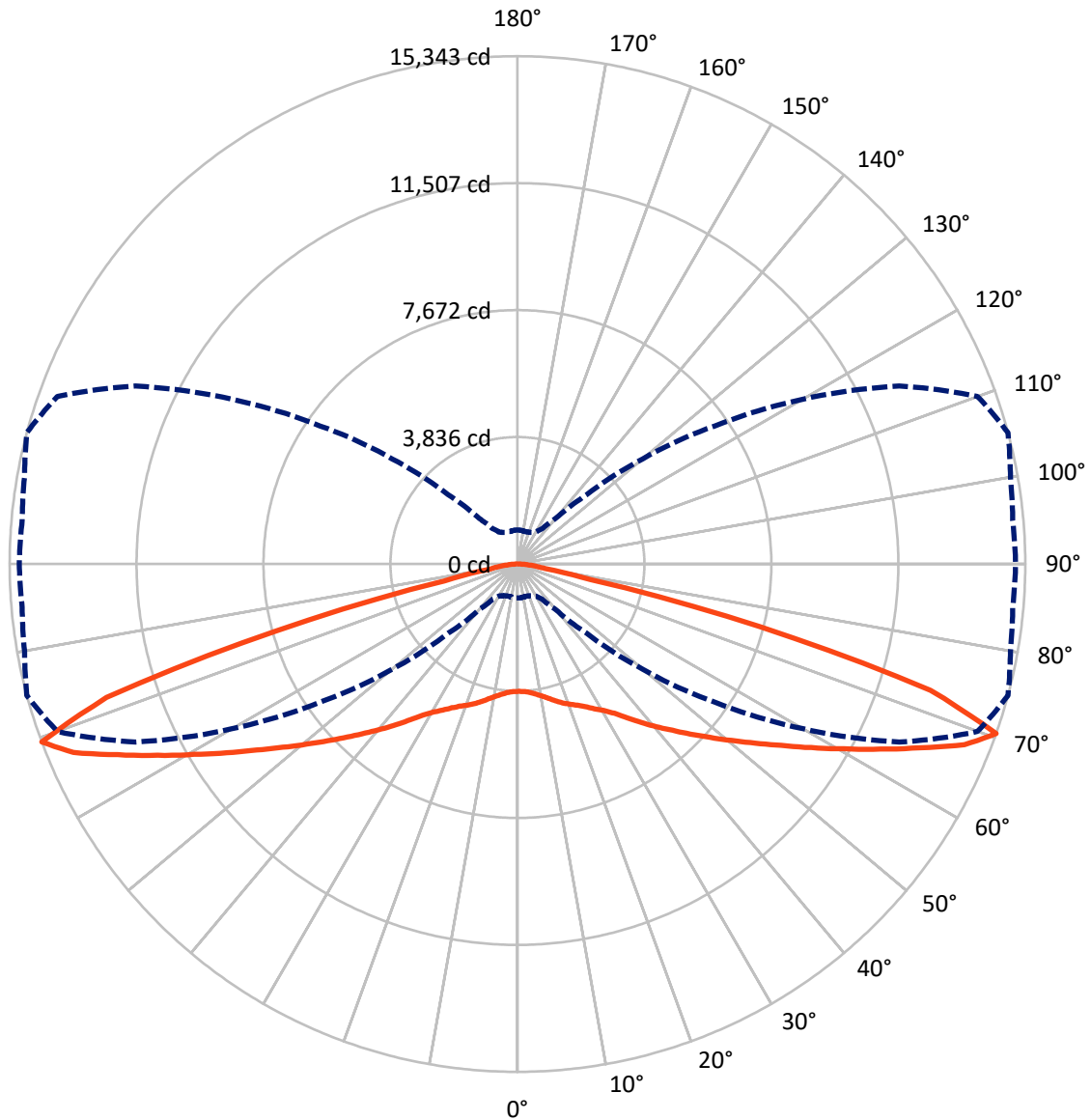


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

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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	17341.8	0.0	17341.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17341.8	0.0	17341.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	34683.6	0.0	34683.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.1
10°-20°	1146.5	3.3
20°-30°	2157.8	6.2
30°-40°	3821.1	11.0
40°-50°	6390.1	18.4
50°-60°	8904.6	25.7
60°-70°	8257.6	23.8
70°-80°	3290.9	9.5
80°-90°	345.9	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°	34683.6	100.0
0°-180°	34683.6	100.0



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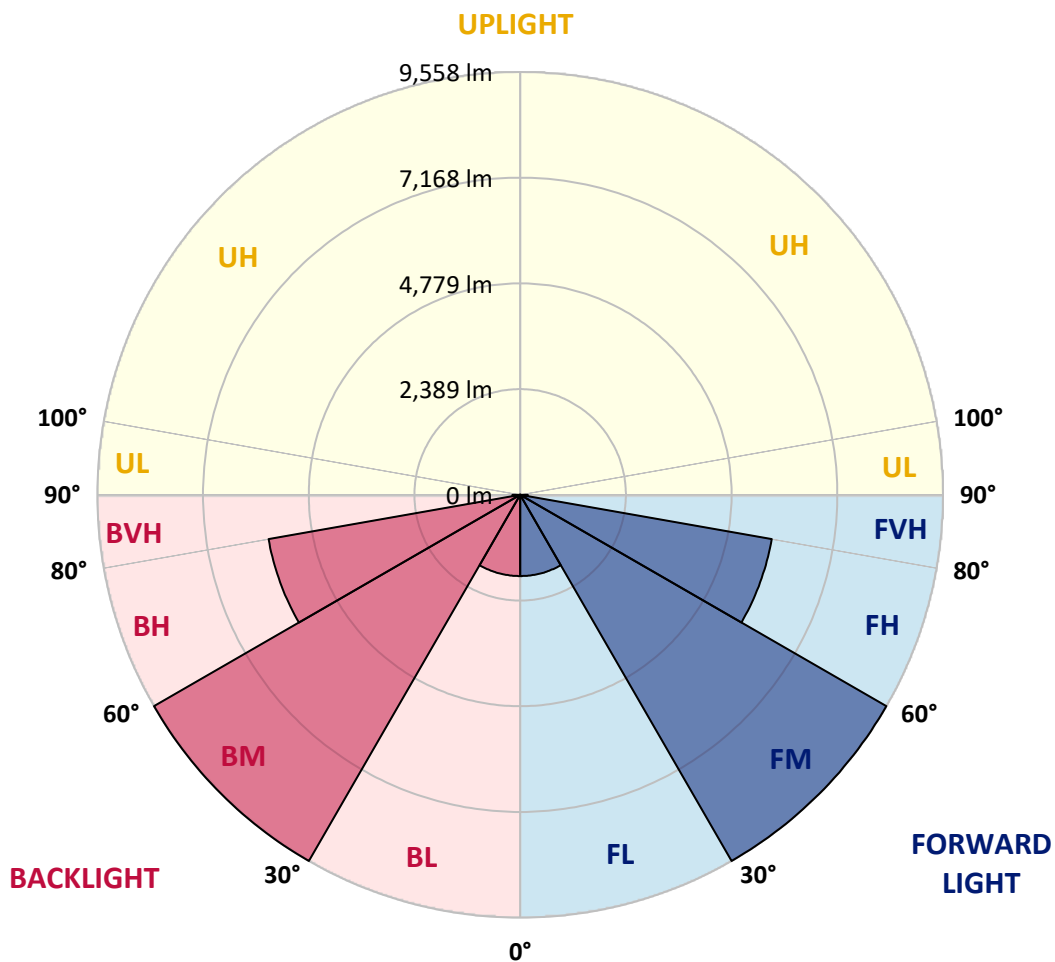
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1836.6	5.3			
FM	(30°-60°)	9557.9	27.6			
FH	(60°-80°)	5774.3	16.6			G3/7500
FVH	(80°-90°)	173.0	0.5			G2/225
BL	(0°-30°)	1836.6	5.3	B3/2500		
BM	(30°-60°)	9557.9	27.6	B5		
BH	(60°-80°)	5774.3	16.6	B5		G5
BVH	(80°-90°)	173.0	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°	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3
2.5°	3840.7	3837.4	3840.7	3839.0	3842.3	3842.3	3845.6	3852.1	3852.1	3857.1	3855.4
5°	3803.0	3801.3	3806.3	3811.1	3816.1	3825.9	3835.8	3850.4	3862.0	3870.2	3878.3
7.5°	3729.3	3729.3	3735.7	3747.2	3758.7	3780.0	3803.0	3832.4	3862.0	3886.5	3907.8
10°	3668.6	3671.8	3680.0	3699.7	3719.3	3752.1	3783.3	3825.9	3866.8	3907.8	3940.7
12.5°	3632.4	3637.3	3652.1	3681.7	3714.4	3758.7	3806.3	3860.3	3906.2	3955.3	3988.1
15°	3644.0	3647.3	3668.6	3704.6	3747.2	3803.0	3866.8	3930.9	3984.9	4037.3	4081.5
17.5°	3707.8	3712.9	3737.4	3778.5	3822.6	3888.3	3957.0	4029.2	4096.5	4155.4	4209.5
20°	3822.6	3827.6	3858.7	3903.0	3955.3	4022.6	4091.5	4166.9	4242.2	4304.6	4365.3
22.5°	3984.9	3993.1	4022.6	4066.8	4125.8	4198.0	4280.0	4360.4	4432.3	4489.8	4543.8
25°	4198.0	4216.0	4244.0	4293.1	4355.3	4421.0	4509.4	4591.3	4660.2	4714.3	4753.7
27.5°	4499.6	4524.3	4545.6	4593.0	4653.7	4716.0	4804.6	4876.7	4942.3	4994.7	5024.2
30°	4899.5	4924.1	4945.4	4991.4	5047.0	5106.1	5189.7	5253.6	5294.6	5335.7	5334.0
32.5°	5384.8	5411.0	5419.3	5468.4	5525.7	5589.8	5665.2	5701.2	5733.9	5738.8	5709.4
35°	5927.3	5940.5	5973.3	6038.9	6104.4	6156.9	6228.9	6247.1	6247.1	6222.4	6156.9
37.5°	6522.5	6530.6	6576.5	6650.2	6717.4	6771.6	6820.7	6856.9	6838.7	6786.3	6676.6
40°	7174.9	7189.6	7255.2	7320.6	7396.1	7446.9	7499.4	7505.9	7487.9	7410.8	7261.7
42.5°	7797.6	7810.9	7876.3	7979.6	8078.0	8148.4	8197.7	8207.5	8150.1	8079.6	7894.5
45°	8333.8	8368.2	8453.4	8574.7	8717.3	8817.4	8884.4	8912.4	8861.6	8769.8	8555.0
47.5°	8758.3	8792.7	8914.1	9058.2	9235.3	9397.6	9509.1	9568.0	9554.9	9486.1	9251.6
50°	9069.7	9102.5	9233.7	9410.6	9617.3	9818.8	10008.9	10149.9	10199.1	10167.9	9953.3
52.5°	9105.8	9159.8	9313.9	9551.7	9820.5	10096.0	10366.4	10605.7	10768.0	10792.5	10633.5
55°	8602.6	8656.6	8869.8	9222.2	9622.1	10071.3	10504.1	10907.3	11226.9	11390.9	11307.2
57.5°	7415.8	7512.4	7737.0	8150.1	8738.6	9410.6	10100.8	10817.1	11467.9	11902.4	11985.8
60°	5683.1	5797.9	6024.0	6463.3	7119.1	7920.6	8841.8	9900.8	11050.0	12026.9	12610.4
62.5°	3645.6	3753.7	3991.4	4373.4	4907.8	5776.6	6765.0	8022.3	9566.4	11108.9	12498.9
65°	1873.7	1932.7	2057.2	2288.3	2704.6	3353.8	4240.5	5494.7	7260.0	9163.3	11172.8
67.5°	1186.8	1198.2	1226.1	1259.0	1365.5	1590.0	2003.1	2785.0	4237.3	6222.4	8574.7
70°	1026.1	1026.1	1013.0	1008.1	1021.3	1052.4	1116.4	1298.2	1788.3	2953.8	4945.4
72.5°	939.3	929.4	906.5	888.5	885.2	885.2	898.2	926.2	1004.8	1203.2	1935.8
75°	865.4	837.6	806.5	785.2	776.9	768.8	767.2	772.1	788.4	819.7	924.5
77.5°	775.3	739.2	703.3	682.0	672.1	660.7	650.7	639.4	631.1	640.9	686.8
80°	667.1	626.2	598.4	585.2	575.4	558.9	537.6	518.1	499.9	496.8	524.5
82.5°	537.6	490.1	491.7	496.8	478.6	455.7	432.8	411.5	380.3	364.0	380.3
85°	434.4	409.7	398.3	429.5	403.2	368.8	332.7	295.1	245.9	206.5	224.5
87.5°	168.8	168.8	252.5	388.4	349.1	285.2	244.2	208.1	129.4	100.0	101.6
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°	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3	3847.3
2.5°	3853.8	3857.1	3855.4	3853.8	3853.8	3852.1	3853.8	3853.8
5°	3883.4	3891.5	3891.5	3894.7	3894.7	3896.4	3898.0	3896.4
7.5°	3927.5	3942.3	3952.2	3963.6	3965.3	3966.8	3970.1	3966.8
10°	3971.8	4001.3	4022.6	4043.9	4053.7	4057.0	4060.2	4060.2
12.5°	4027.6	4068.6	4106.2	4143.9	4161.9	4171.8	4171.8	4178.3
15°	4119.4	4160.3	4204.5	4255.5	4286.5	4302.9	4307.8	4307.8
17.5°	4248.9	4284.8	4322.6	4371.8	4411.0	4432.3	4437.4	4435.7
20°	4399.5	4434.0	4455.4	4486.6	4520.9	4545.6	4552.2	4552.2
22.5°	4571.7	4591.3	4594.7	4604.5	4632.4	4665.2	4679.9	4683.3
25°	4761.8	4766.9	4753.7	4753.7	4771.7	4802.9	4817.6	4819.2
27.5°	5007.8	4983.2	4950.4	4938.9	4950.4	4986.5	5004.5	5011.0
30°	5314.4	5255.4	5179.8	5138.9	5132.3	5179.8	5212.7	5217.5
32.5°	5665.2	5579.8	5479.9	5396.3	5375.0	5404.5	5443.8	5442.1
35°	6081.4	5979.8	5858.6	5751.9	5702.8	5732.4	5788.0	5794.5
37.5°	6561.8	6429.0	6289.7	6155.2	6078.2	6086.3	6145.3	6165.1
40°	7097.8	6925.7	6750.3	6569.9	6460.2	6438.8	6510.9	6522.5
42.5°	7671.4	7450.3	7228.9	7006.1	6864.9	6832.1	6915.8	6910.9
45°	8282.9	8000.9	7742.0	7496.0	7328.9	7279.8	7348.6	7348.6
47.5°	8940.2	8592.6	8284.6	8005.9	7824.0	7753.5	7818.9	7824.0
50°	9636.8	9268.1	8905.7	8596.1	8378.0	8287.9	8373.1	8386.1
52.5°	10330.2	9971.2	9605.8	9251.6	8987.8	8877.9	8976.4	9019.0
55°	11033.5	10681.0	10331.9	9986.1	9672.9	9543.5	9648.3	9702.5
57.5°	11776.2	11449.8	11117.2	10768.0	10466.3	10264.8	10376.2	10448.2
60°	12646.5	12367.9	12021.9	11636.7	11331.8	11126.9	11190.8	11254.8
62.5°	13335.0	13443.1	13149.7	12703.8	12312.1	12049.9	12112.0	12179.3
65°	13002.2	14112.0	14372.5	13921.8	13379.1	12971.0	12944.8	12979.3
67.5°	10868.0	13023.4	14595.5	15025.1	14570.9	14003.8	13898.8	13949.7
70°	7270.0	9954.8	12728.4	14793.8	15343.1	15123.3	15020.1	15051.2
72.5°	3491.5	5797.9	8635.3	11380.9	13053.0	13820.2	14066.0	14185.8
75°	1276.9	2301.5	4161.9	6271.5	7571.5	8764.9	9543.5	9861.5
77.5°	770.4	929.4	1329.4	2001.5	2267.1	2537.5	2432.6	2485.0
80°	570.5	644.3	729.5	819.7	849.1	849.1	816.3	790.1
82.5°	399.9	447.4	488.5	537.6	550.8	526.1	432.8	344.2
85°	257.4	278.7	296.7	327.8	319.6	304.9	205.0	181.9
87.5°	117.9	134.4	140.9	155.8	149.2	142.7	101.6	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)