

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: P300709

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300709
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-10-LED-E1-RW-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34352.6 lumens
Efficiency: N/A
Efficacy: 106.4 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

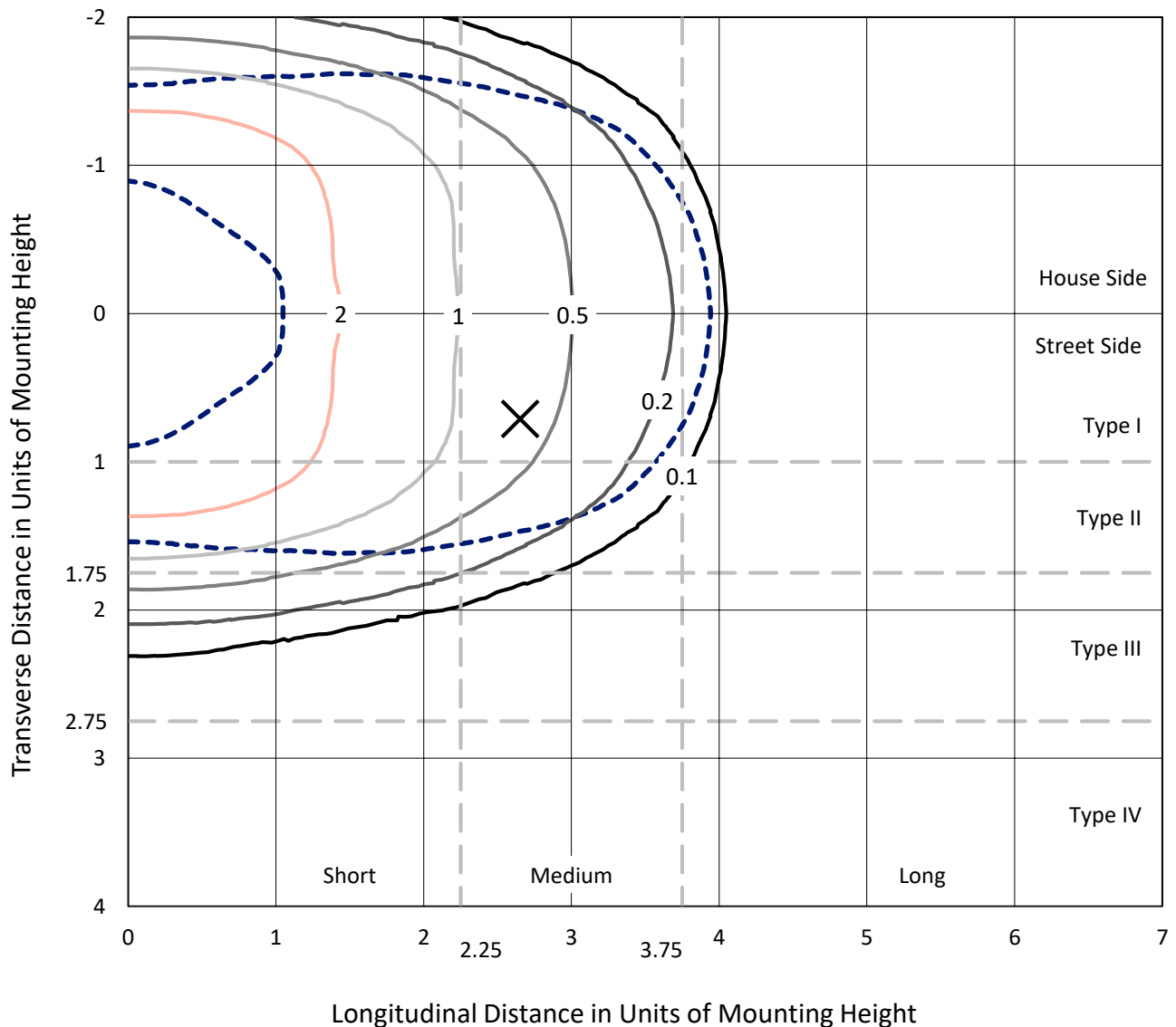
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

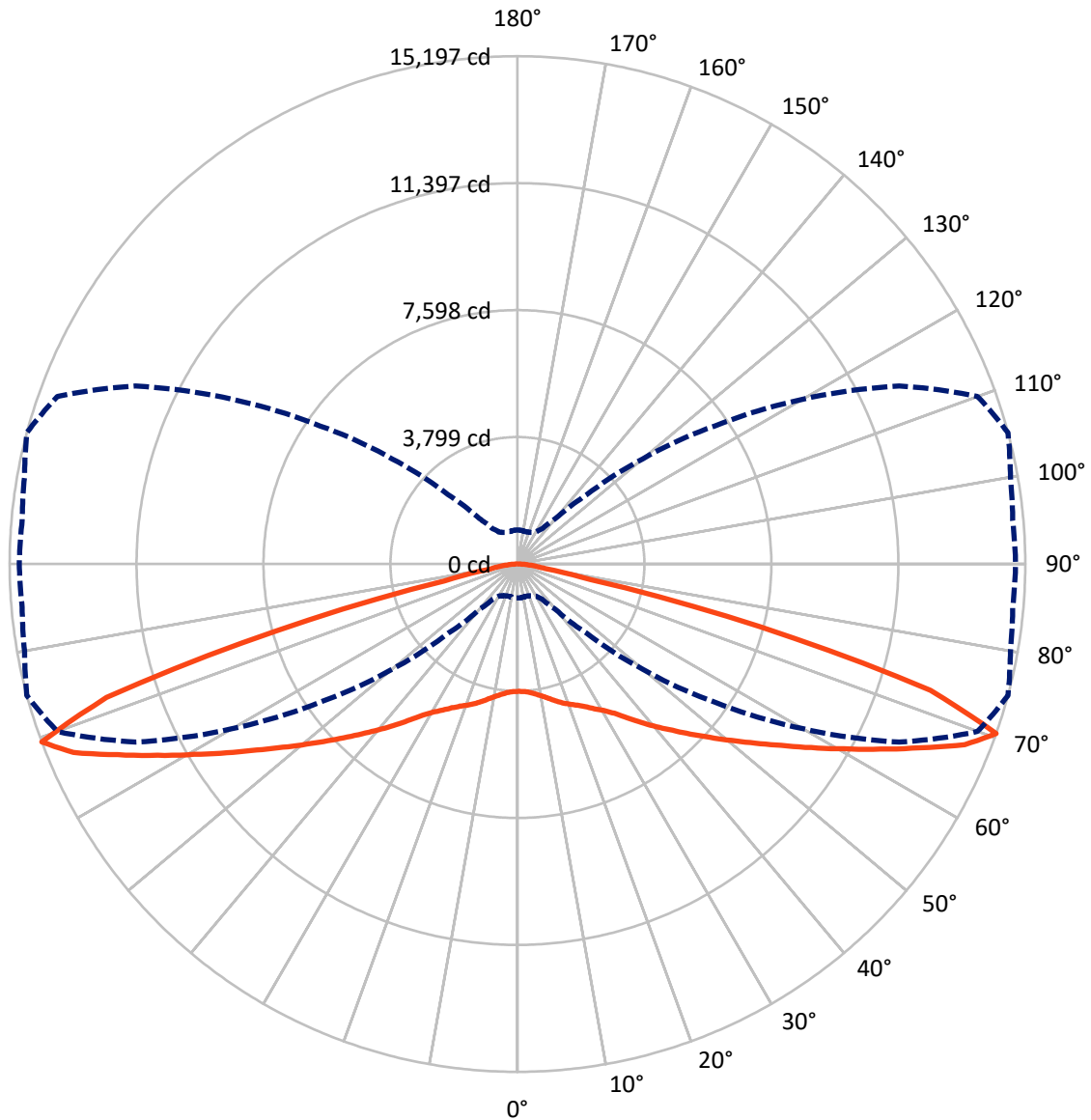
× Max cd
 - - - 1/2 Max cd



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	17176.3	0.0	17176.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17176.3	0.0	17176.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34352.6	0.0	34352.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	1.1
10°-20°	1135.5	3.3
20°-30°	2137.2	6.2
30°-40°	3784.6	11.0
40°-50°	6329.1	18.4
50°-60°	8819.7	25.7
60°-70°	8178.8	23.8
70°-80°	3259.5	9.5
80°-90°	342.6	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°	34352.6	100.0
0°-180°	34352.6	100.0



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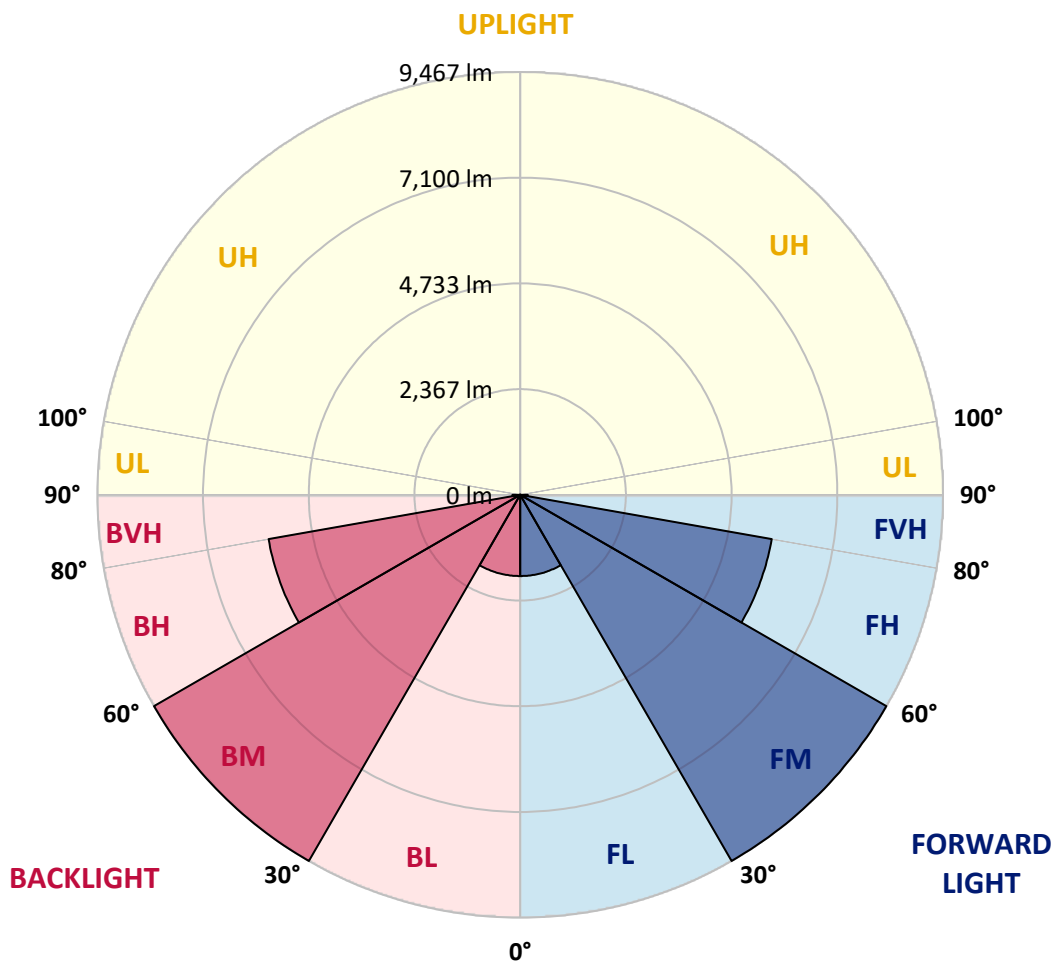
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1819.1	5.3			
FM	(30°-60°)	9466.7	27.6			
FH	(60°-80°)	5719.2	16.6			G3/7500
FVH	(80°-90°)	171.3	0.5			G2/225
BL	(0°-30°)	1819.1	5.3	B3/2500		
BM	(30°-60°)	9466.7	27.6	B5		
BH	(60°-80°)	5719.2	16.6	B5		G5
BVH	(80°-90°)	171.3	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°	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5
2.5°	3804.0	3800.8	3804.0	3802.4	3805.6	3805.6	3808.9	3815.4	3815.4	3820.3	3818.6
5°	3766.7	3765.0	3769.9	3774.8	3779.7	3789.4	3799.1	3813.8	3825.1	3833.2	3841.4
7.5°	3693.6	3693.6	3700.1	3711.5	3722.8	3743.9	3766.7	3795.9	3825.1	3849.5	3870.6
10°	3633.5	3636.8	3644.9	3664.4	3683.9	3716.3	3747.2	3789.4	3830.0	3870.6	3903.1
12.5°	3597.8	3602.7	3617.3	3646.5	3679.0	3722.8	3769.9	3823.5	3869.0	3917.7	3950.1
15°	3609.2	3612.4	3633.5	3669.3	3711.5	3766.7	3830.0	3893.3	3946.9	3998.8	4042.7
17.5°	3672.5	3677.4	3701.7	3742.3	3786.2	3851.1	3919.3	3990.7	4057.3	4115.7	4169.3
20°	3786.2	3791.0	3821.9	3865.7	3917.7	3984.2	4052.4	4127.1	4201.8	4263.5	4323.6
22.5°	3946.9	3955.0	3984.2	4028.1	4086.5	4158.0	4239.1	4318.7	4390.1	4446.9	4500.5
25°	4158.0	4175.8	4203.4	4252.1	4313.8	4378.8	4466.4	4547.6	4615.8	4669.4	4708.3
27.5°	4456.7	4481.0	4502.1	4549.2	4609.3	4671.0	4758.7	4830.1	4895.1	4947.0	4976.2
30°	4852.8	4877.2	4898.3	4943.8	4999.0	5057.4	5140.2	5203.5	5244.1	5284.7	5283.1
32.5°	5333.4	5359.4	5367.5	5416.2	5473.0	5536.4	5611.0	5646.8	5679.2	5684.1	5654.9
35°	5870.8	5883.8	5916.3	5981.2	6046.2	6098.1	6169.5	6187.4	6187.4	6163.1	6098.1
37.5°	6460.2	6468.3	6513.7	6586.8	6653.4	6706.9	6755.7	6791.4	6773.5	6721.6	6612.8
40°	7106.3	7121.0	7185.9	7250.8	7325.5	7375.9	7427.8	7434.3	7416.4	7340.1	7192.4
42.5°	7723.3	7736.3	7801.2	7903.5	8000.9	8070.7	8119.5	8129.2	8072.4	8002.6	7819.1
45°	8254.2	8288.3	8372.7	8492.9	8634.1	8733.2	8799.7	8827.3	8777.0	8686.1	8473.4
47.5°	8674.7	8708.8	8829.0	8971.8	9147.2	9307.9	9418.3	9476.8	9463.8	9395.6	9163.4
50°	8983.2	9015.7	9145.5	9320.9	9525.5	9725.2	9913.5	10053.1	10101.8	10071.0	9858.3
52.5°	9018.9	9072.5	9225.1	9460.5	9726.8	9999.5	10267.4	10504.5	10665.2	10689.6	10532.1
55°	8520.5	8574.1	8785.1	9134.2	9530.3	9975.2	10403.8	10803.2	11119.8	11282.2	11199.4
57.5°	7345.0	7440.8	7663.2	8072.4	8655.2	9320.9	10004.4	10713.9	11358.5	11788.7	11871.5
60°	5628.9	5742.6	5966.6	6401.7	7051.1	7845.1	8757.5	9806.3	10944.5	11912.1	12490.1
62.5°	3610.8	3718.0	3953.4	4331.7	4861.0	5721.4	6700.5	7945.7	9475.1	11002.9	12379.7
65°	1855.7	1914.2	2037.6	2266.5	2678.9	3321.8	4200.2	5442.2	7190.8	9075.7	11066.2
67.5°	1175.5	1186.8	1214.4	1246.9	1352.4	1574.9	1984.0	2758.4	4196.9	6163.1	8492.9
70°	1016.4	1016.4	1003.4	998.5	1011.5	1042.3	1105.6	1285.9	1771.3	2925.7	4898.3
72.5°	930.3	920.6	897.8	880.0	876.7	876.7	889.7	917.3	995.2	1191.7	1917.4
75°	857.2	829.6	798.8	777.7	769.6	761.5	759.8	764.7	780.9	811.8	915.7
77.5°	767.9	732.2	696.5	675.4	665.7	654.3	644.6	633.2	625.1	634.8	680.3
80°	660.8	620.2	592.6	579.6	569.9	553.6	532.5	513.0	495.2	491.9	519.5
82.5°	532.5	485.4	487.1	491.9	474.1	451.4	428.6	407.5	376.7	360.4	376.7
85°	430.2	405.9	394.5	425.4	399.4	365.3	329.6	292.2	243.5	204.6	222.4
87.5°	167.2	167.2	250.0	384.8	345.8	282.5	241.9	206.2	128.3	99.0	100.7
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°	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5
2.5°	3817.0	3820.3	3818.6	3817.0	3817.0	3815.4	3817.0	3817.0
5°	3846.2	3854.3	3854.3	3857.6	3857.6	3859.2	3860.8	3859.2
7.5°	3890.1	3904.7	3914.4	3925.8	3927.4	3929.0	3932.3	3929.0
10°	3933.9	3963.1	3984.2	4005.3	4015.1	4018.3	4021.6	4021.6
12.5°	3989.1	4029.7	4067.0	4104.4	4122.2	4132.0	4132.0	4138.5
15°	4080.0	4120.6	4164.4	4214.8	4245.6	4261.9	4266.7	4266.7
17.5°	4208.3	4244.0	4281.3	4330.0	4369.0	4390.1	4395.0	4393.4
20°	4357.7	4391.7	4412.9	4443.7	4477.8	4502.1	4508.6	4508.6
22.5°	4528.1	4547.6	4550.9	4560.6	4588.2	4620.7	4635.3	4638.5
25°	4716.5	4721.3	4708.3	4708.3	4726.2	4757.0	4771.7	4773.3
27.5°	4960.0	4935.6	4903.2	4891.8	4903.2	4938.9	4956.7	4963.2
30°	5263.6	5205.2	5130.5	5089.9	5083.4	5130.5	5162.9	5167.8
32.5°	5611.0	5526.6	5427.6	5344.8	5323.7	5352.9	5391.9	5390.2
35°	6023.4	5922.8	5802.6	5697.1	5648.4	5677.6	5732.8	5739.3
37.5°	6499.1	6367.6	6229.6	6096.5	6020.2	6028.3	6086.7	6106.2
40°	7030.0	6859.6	6685.8	6507.3	6398.5	6377.4	6448.8	6460.2
42.5°	7598.3	7379.1	7159.9	6939.1	6799.5	6767.0	6849.8	6845.0
45°	8203.9	7924.6	7668.1	7424.6	7259.0	7210.3	7278.4	7278.4
47.5°	8854.9	8510.7	8205.5	7929.5	7749.3	7679.5	7744.4	7749.3
50°	9544.9	9179.6	8820.8	8514.0	8298.0	8208.7	8293.2	8306.2
52.5°	10231.7	9876.2	9514.1	9163.4	8902.0	8793.2	8890.6	8932.9
55°	10928.2	10579.2	10233.3	9890.8	9580.7	9452.4	9556.3	9609.9
57.5°	11663.7	11340.6	11011.0	10665.2	10366.5	10166.8	10277.2	10348.6
60°	12525.8	12249.8	11907.2	11525.7	11223.7	11020.8	11084.1	11147.4
62.5°	13207.7	13314.9	13024.2	12582.6	12194.6	11934.8	11996.5	12063.1
65°	12878.1	13977.3	14235.4	13788.9	13251.5	12847.3	12821.3	12855.4
67.5°	10764.2	12899.2	14456.2	14881.6	14431.9	13870.1	13766.2	13816.5
70°	7200.5	9859.9	12607.0	14652.7	15196.6	14979.0	14876.7	14907.6
72.5°	3458.2	5742.6	8552.9	11272.4	12928.5	13688.3	13931.8	14050.3
75°	1264.8	2279.5	4122.2	6211.8	7499.2	8681.2	9452.4	9767.4
77.5°	763.1	920.6	1316.7	1982.4	2245.4	2513.3	2409.4	2461.3
80°	565.0	638.1	722.5	811.8	841.0	841.0	808.5	782.6
82.5°	396.2	443.2	483.8	532.5	545.5	521.2	428.6	340.9
85°	254.9	276.0	293.9	324.7	316.6	302.0	202.9	180.2
87.5°	116.9	133.1	139.6	154.2	147.7	141.3	100.7	84.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)