

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: P300637

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300637
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-08-LED-E1-RW-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K 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: 34111.3 lumens
Efficiency: N/A
Efficacy: 102.1 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

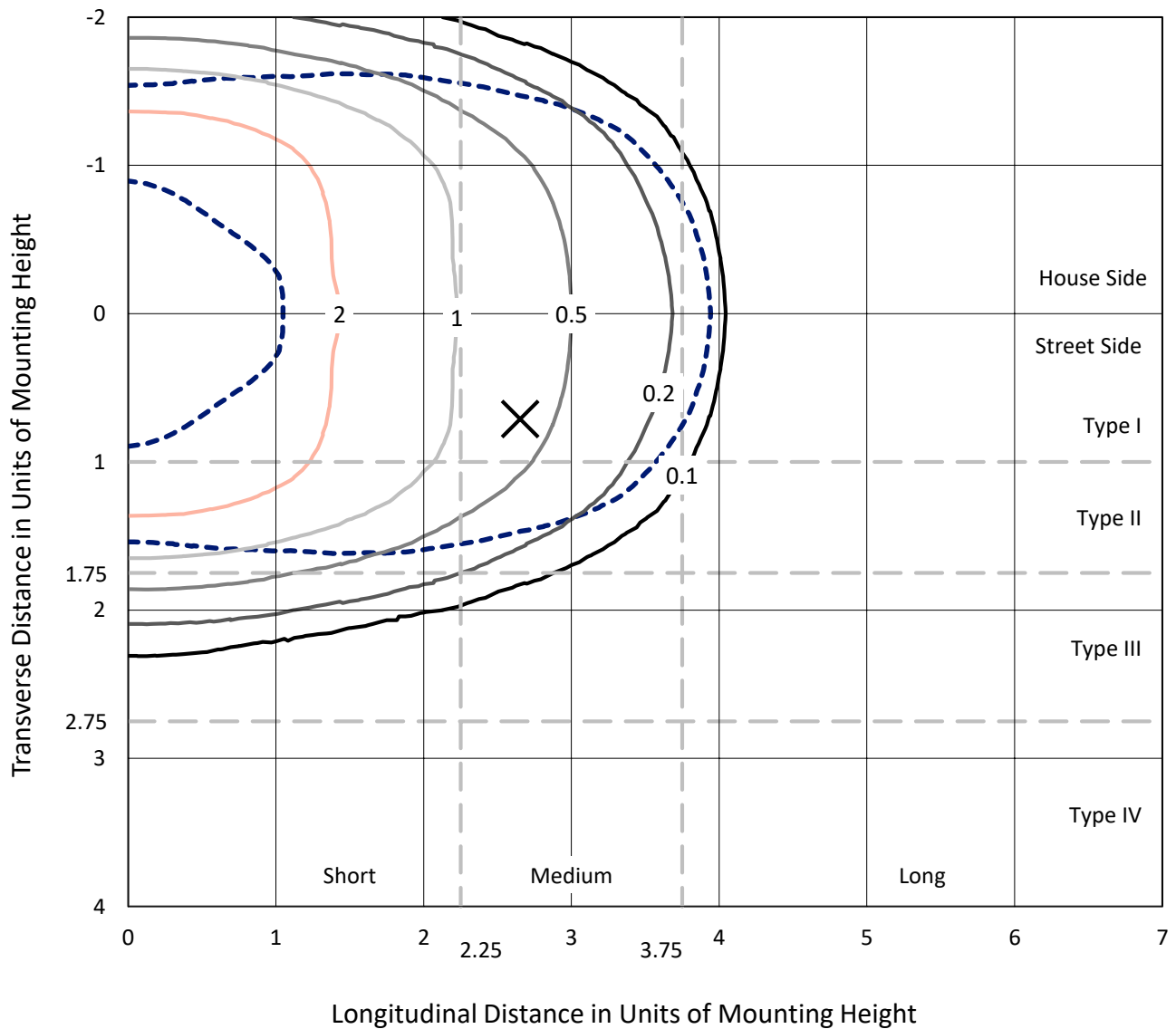
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

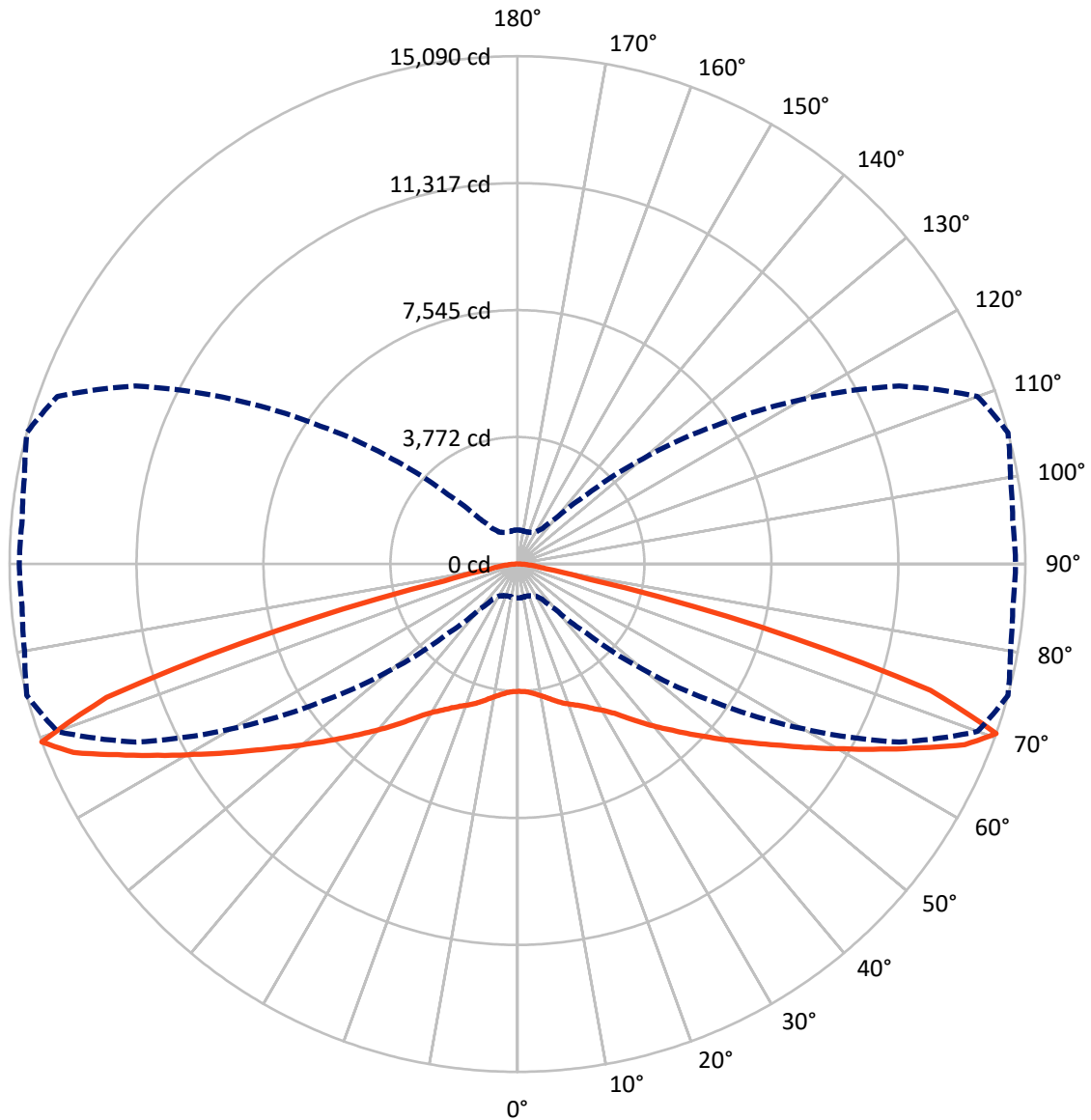
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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	17055.6	0.0	17055.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17055.6	0.0	17055.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	34111.3	0.0	34111.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.9	1.1
10°-20°	1127.6	3.3
20°-30°	2122.2	6.2
30°-40°	3758.1	11.0
40°-50°	6284.7	18.4
50°-60°	8757.7	25.7
60°-70°	8121.4	23.8
70°-80°	3236.6	9.5
80°-90°	340.2	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°	34111.3	100.0
0°-180°	34111.3	100.0



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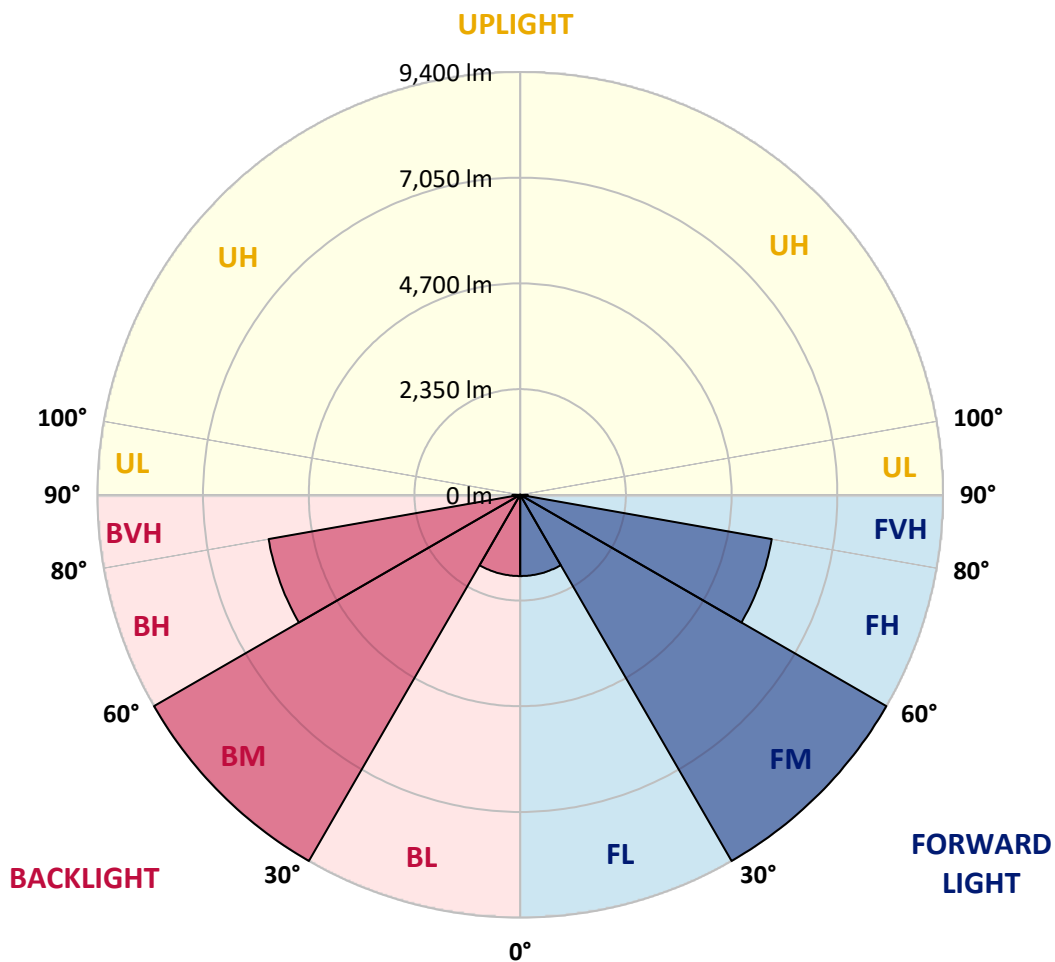
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1806.3	5.3			
FM	(30°-60°)	9400.2	27.6			
FH	(60°-80°)	5679.0	16.6			G3/7500
FVH	(80°-90°)	170.1	0.5			G2/225
BL	(0°-30°)	1806.3	5.3	B3/2500		
BM	(30°-60°)	9400.2	27.6	B5		
BH	(60°-80°)	5679.0	16.6	B5		G5
BVH	(80°-90°)	170.1	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°	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7
2.5°	3777.3	3774.1	3777.3	3775.7	3778.9	3778.9	3782.1	3788.6	3788.6	3793.4	3791.8
5°	3740.2	3738.6	3743.4	3748.3	3753.1	3762.8	3772.5	3787.0	3798.2	3806.3	3814.4
7.5°	3667.7	3667.7	3674.1	3685.4	3696.7	3717.6	3740.2	3769.2	3798.2	3822.4	3843.4
10°	3608.0	3611.2	3619.3	3638.6	3658.0	3690.2	3720.9	3762.8	3803.1	3843.4	3875.6
12.5°	3572.5	3577.4	3591.9	3620.9	3653.2	3696.7	3743.4	3796.6	3841.8	3890.1	3922.4
15°	3583.8	3587.1	3608.0	3643.5	3685.4	3740.2	3803.1	3866.0	3919.2	3970.7	4014.3
17.5°	3646.7	3651.5	3675.7	3716.0	3759.6	3824.0	3891.7	3962.7	4028.8	4086.8	4140.0
20°	3759.6	3764.4	3795.0	3838.5	3890.1	3956.2	4023.9	4098.1	4172.3	4233.5	4293.2
22.5°	3919.2	3927.2	3956.2	3999.8	4057.8	4128.7	4209.3	4288.3	4359.3	4415.7	4468.9
25°	4128.7	4146.5	4173.9	4222.2	4283.5	4348.0	4435.0	4515.7	4583.4	4636.6	4675.3
27.5°	4425.4	4449.6	4470.5	4517.3	4576.9	4638.2	4725.2	4796.2	4860.7	4912.2	4941.3
30°	4818.7	4842.9	4863.9	4909.0	4963.8	5021.9	5104.1	5167.0	5207.3	5247.6	5246.0
32.5°	5295.9	5321.7	5329.8	5378.2	5434.6	5497.5	5571.6	5607.1	5639.3	5644.2	5615.1
35°	5829.6	5842.5	5874.7	5939.2	6003.7	6055.3	6126.2	6143.9	6143.9	6119.8	6055.3
37.5°	6414.8	6422.8	6468.0	6540.5	6606.6	6659.8	6708.2	6743.7	6725.9	6674.3	6566.3
40°	7056.4	7070.9	7135.4	7199.9	7274.1	7324.0	7375.6	7382.1	7364.3	7288.6	7141.9
42.5°	7669.0	7681.9	7746.4	7848.0	7944.7	8014.0	8062.4	8072.1	8015.7	7946.3	7764.2
45°	8196.2	8230.1	8313.9	8433.2	8573.5	8671.8	8737.9	8765.3	8715.3	8625.0	8413.9
47.5°	8613.8	8647.6	8766.9	8908.8	9082.9	9242.5	9352.1	9410.2	9397.3	9329.6	9099.0
50°	8920.1	8952.3	9081.3	9255.4	9458.5	9656.8	9843.8	9982.5	10030.8	10000.2	9789.0
52.5°	8955.5	9008.7	9160.3	9394.0	9658.4	9929.3	10195.3	10430.7	10590.3	10614.4	10458.1
55°	8460.6	8513.8	8723.4	9070.0	9463.4	9905.1	10330.7	10727.3	11041.7	11202.9	11120.7
57.5°	7293.4	7388.5	7609.4	8015.7	8594.4	9255.4	9934.1	10638.6	11278.7	11705.9	11788.1
60°	5589.4	5702.2	5924.7	6356.7	7001.6	7789.9	8696.0	9737.4	10867.6	11828.4	12402.3
62.5°	3585.4	3691.8	3925.6	4301.2	4826.8	5681.2	6653.4	7889.9	9408.6	10925.6	12292.7
65°	1842.7	1900.7	2023.3	2250.6	2660.1	3298.5	4170.7	5404.0	7140.2	9012.0	10988.5
67.5°	1167.2	1178.5	1205.9	1238.1	1342.9	1563.8	1970.1	2739.1	4167.4	6119.8	8433.2
70°	1009.2	1009.2	996.3	991.5	1004.4	1035.0	1097.9	1276.8	1758.9	2905.1	4863.9
72.5°	923.8	914.1	891.5	873.8	870.6	870.6	883.5	910.9	988.3	1183.3	1904.0
75°	851.2	823.8	793.2	772.2	764.2	756.1	754.5	759.3	775.4	806.1	909.3
77.5°	762.6	727.1	691.6	670.7	661.0	649.7	640.0	628.7	620.7	630.4	675.5
80°	656.1	615.8	588.4	575.5	565.9	549.7	528.8	509.4	491.7	488.5	515.9
82.5°	528.8	482.0	483.6	488.5	470.8	448.2	425.6	404.7	374.0	357.9	374.0
85°	427.2	403.0	391.8	422.4	396.6	362.7	327.3	290.2	241.8	203.1	220.9
87.5°	166.1	166.1	248.3	382.1	343.4	280.5	240.2	204.7	127.4	98.3	100.0
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°	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7
2.5°	3790.2	3793.4	3791.8	3790.2	3790.2	3788.6	3790.2	3790.2
5°	3819.2	3827.3	3827.3	3830.5	3830.5	3832.1	3833.7	3832.1
7.5°	3862.7	3877.2	3886.9	3898.2	3899.8	3901.4	3904.6	3901.4
10°	3906.3	3935.3	3956.2	3977.2	3986.9	3990.1	3993.3	3993.3
12.5°	3961.1	4001.4	4038.5	4075.5	4093.3	4102.9	4102.9	4109.4
15°	4051.4	4091.7	4135.2	4185.2	4215.8	4231.9	4236.8	4236.8
17.5°	4178.7	4214.2	4251.3	4299.6	4338.3	4359.3	4364.1	4362.5
20°	4327.0	4360.9	4381.8	4412.5	4446.3	4470.5	4477.0	4477.0
22.5°	4496.3	4515.7	4518.9	4528.6	4556.0	4588.2	4602.7	4605.9
25°	4683.3	4688.2	4675.3	4675.3	4693.0	4723.6	4738.1	4739.7
27.5°	4925.1	4901.0	4868.7	4857.4	4868.7	4904.2	4921.9	4928.4
30°	5226.6	5168.6	5094.4	5054.1	5047.7	5094.4	5126.7	5131.5
32.5°	5571.6	5487.8	5389.4	5307.2	5286.3	5315.3	5354.0	5352.4
35°	5981.1	5881.2	5761.9	5657.1	5608.7	5637.7	5692.5	5699.0
37.5°	6453.5	6322.9	6185.9	6053.7	5977.9	5985.9	6044.0	6063.3
40°	6980.6	6811.4	6638.9	6461.5	6353.5	6332.6	6403.5	6414.8
42.5°	7544.9	7327.3	7109.6	6890.4	6751.7	6719.5	6801.7	6796.9
45°	8146.2	7868.9	7614.2	7372.4	7208.0	7159.6	7227.3	7227.3
47.5°	8792.7	8450.9	8147.8	7873.8	7694.8	7625.5	7690.0	7694.8
50°	9477.9	9115.1	8758.9	8454.2	8239.7	8151.1	8234.9	8247.8
52.5°	10159.8	9806.8	9447.2	9099.0	8839.5	8731.4	8828.2	8870.1
55°	10851.4	10504.8	10161.4	9821.3	9513.3	9386.0	9489.2	9542.4
57.5°	11581.7	11260.9	10933.7	10590.3	10293.6	10095.3	10205.0	10275.9
60°	12437.8	12163.7	11823.6	11444.7	11144.8	10943.3	11006.2	11069.1
62.5°	13114.9	13221.3	12932.7	12494.2	12108.9	11851.0	11912.2	11978.3
65°	12787.6	13879.1	14135.4	13692.1	13158.4	12757.0	12731.2	12765.1
67.5°	10688.6	12808.6	14354.7	14777.0	14330.5	13772.7	13669.5	13719.5
70°	7149.9	9790.6	12518.4	14549.7	15089.8	14873.8	14772.2	14802.8
72.5°	3433.9	5702.2	8492.8	11193.2	12837.6	13592.1	13833.9	13951.6
75°	1255.9	2263.5	4093.3	6168.1	7446.6	8620.2	9386.0	9698.7
77.5°	757.7	914.1	1307.5	1968.4	2229.6	2495.6	2392.4	2444.0
80°	561.0	633.6	717.4	806.1	835.1	835.1	802.9	777.1
82.5°	393.4	440.1	480.4	528.8	541.7	517.5	425.6	338.6
85°	253.1	274.1	291.8	322.4	314.4	299.9	201.5	178.9
87.5°	116.1	132.2	138.6	153.2	146.7	140.3	100.0	83.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)