

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: P300562

Luminaire Tested: **GLNA-AF-05-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300562
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-05-LED-E1-RW
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30307.1 lumens
Efficiency: N/A
Efficacy: 108.6 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): 279
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

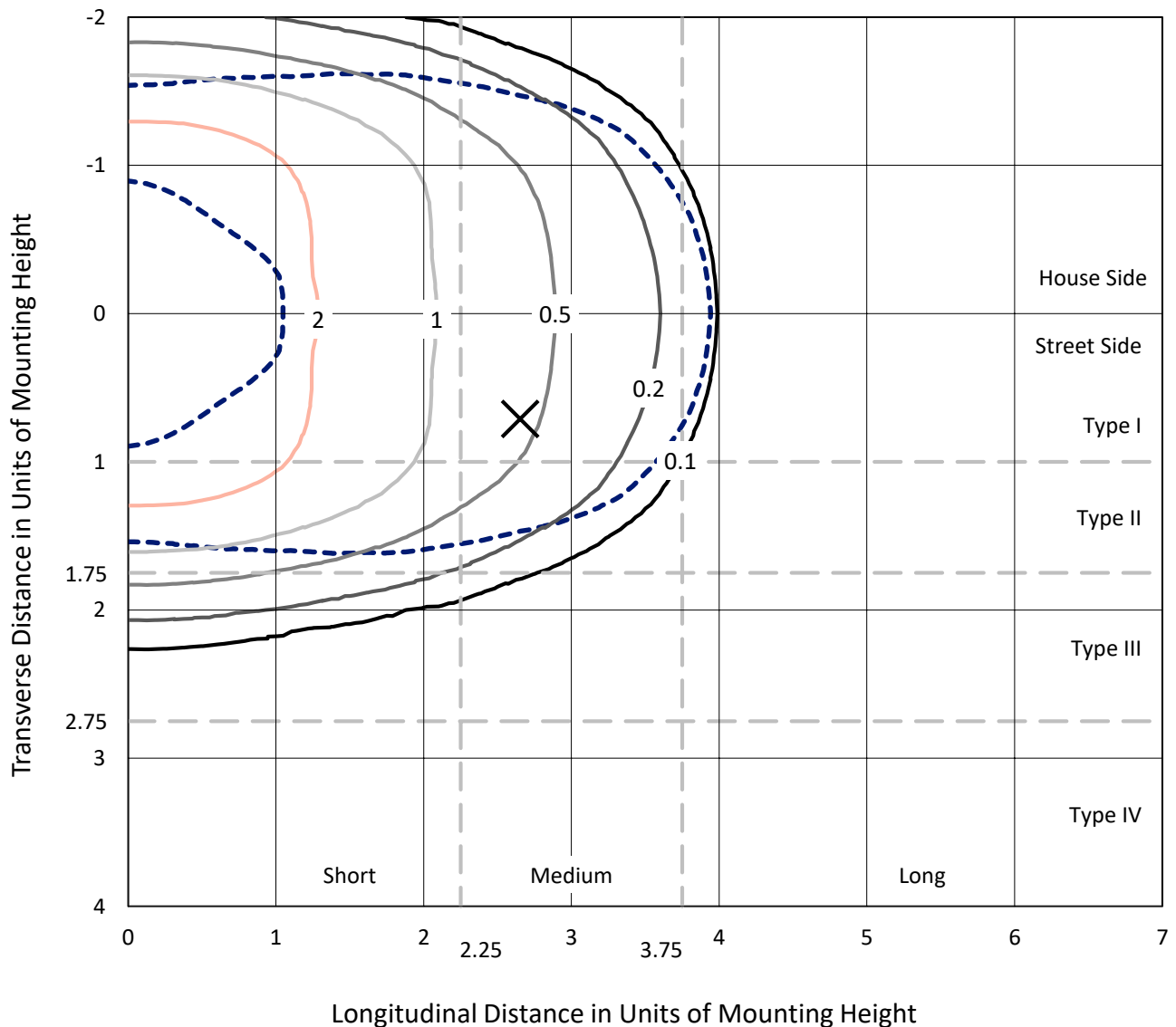


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

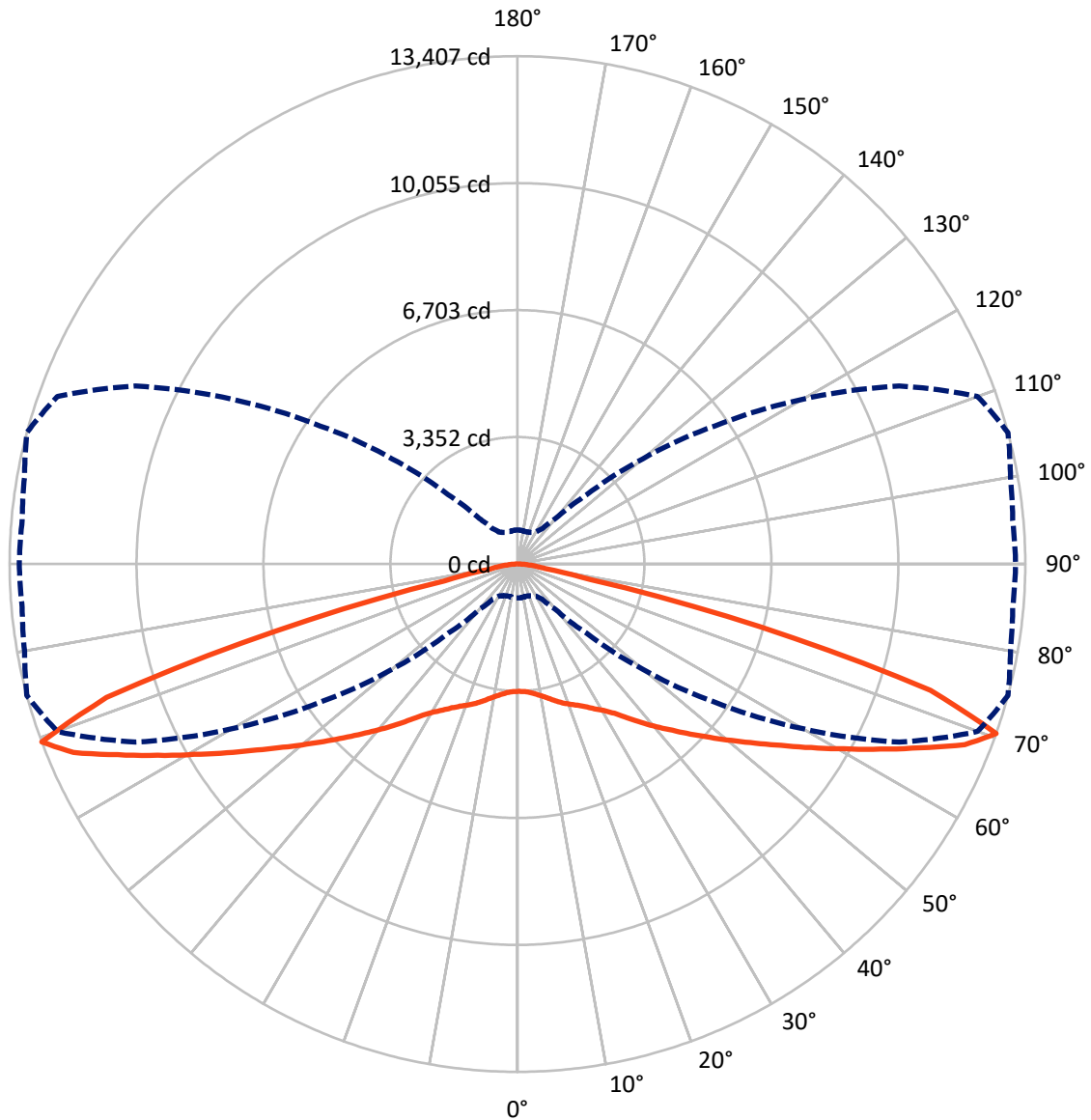


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - Full Cutoff

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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	15153.5	0.0	15153.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15153.5	0.0	15153.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30307.1	0.0	30307.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.1
10°-20°	1001.8	3.3
20°-30°	1885.6	6.2
30°-40°	3338.9	11.0
40°-50°	5583.8	18.4
50°-60°	7781.0	25.7
60°-70°	7215.6	23.8
70°-80°	2875.6	9.5
80°-90°	302.3	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°	30307.1	100.0
0°-180°	30307.1	100.0



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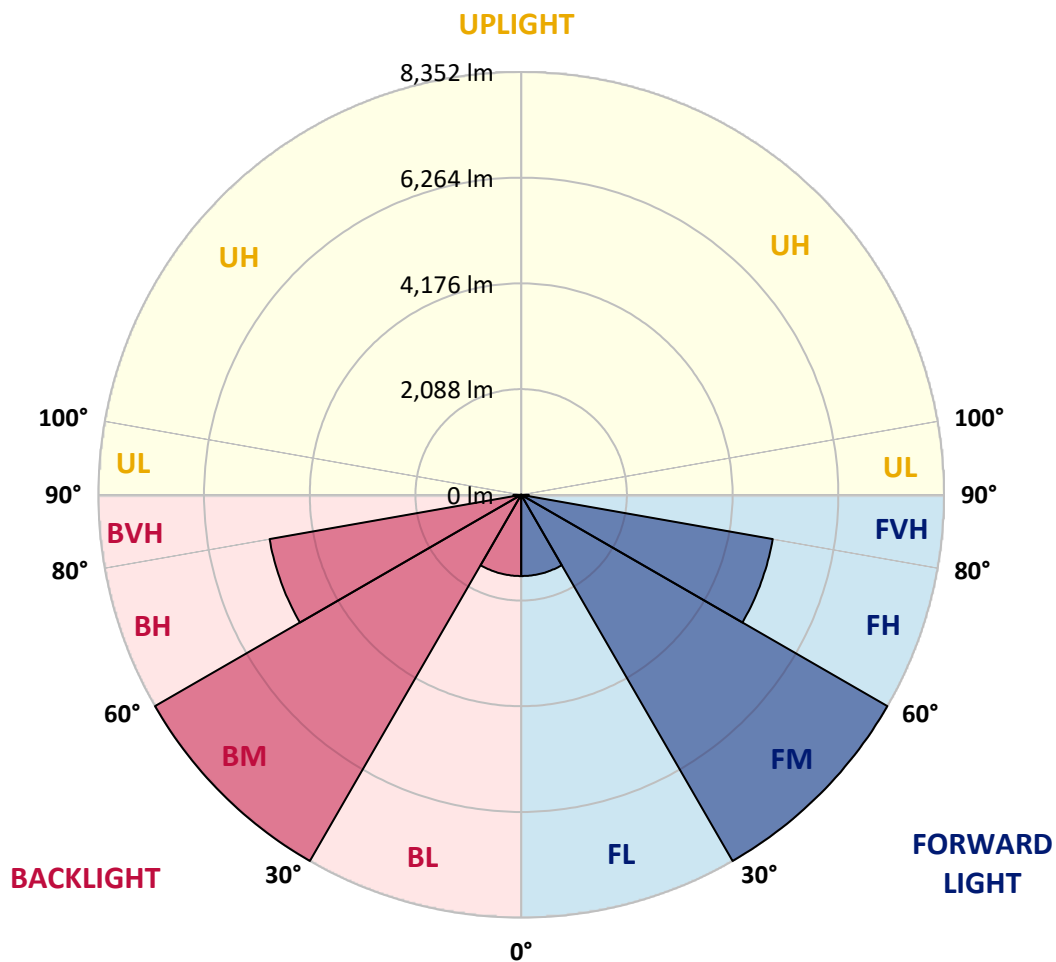
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.9	5.3			
FM	(30°-60°)	8351.9	27.6			
FH	(60°-80°)	5045.6	16.6			G3/7500
FVH	(80°-90°)	151.1	0.5			G2/225
BL	(0°-30°)	1604.9	5.3	B3/2500		
BM	(30°-60°)	8351.9	27.6	B4/8500		
BH	(60°-80°)	5045.6	16.6	B5		G5
BVH	(80°-90°)	151.1	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°	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8
2.5°	3356.0	3353.2	3356.0	3354.6	3357.5	3357.5	3360.3	3366.1	3366.1	3370.4	3368.9
5°	3323.1	3321.7	3326.0	3330.2	3334.5	3343.1	3351.7	3364.6	3374.7	3381.8	3389.0
7.5°	3258.6	3258.6	3264.4	3274.4	3284.4	3303.0	3323.1	3348.9	3374.7	3396.1	3414.8
10°	3205.6	3208.5	3215.7	3232.8	3250.0	3278.7	3305.9	3343.1	3378.9	3414.8	3443.4
12.5°	3174.1	3178.4	3191.3	3217.1	3245.7	3284.4	3326.0	3373.2	3413.3	3456.3	3484.9
15°	3184.1	3187.0	3205.6	3237.1	3274.4	3323.1	3378.9	3434.8	3482.1	3527.9	3566.6
17.5°	3240.0	3244.3	3265.8	3301.6	3340.3	3397.6	3457.7	3520.8	3579.5	3631.0	3678.3
20°	3340.3	3344.6	3371.8	3410.5	3456.3	3515.0	3575.2	3641.1	3707.0	3761.4	3814.4
22.5°	3482.1	3489.2	3515.0	3553.7	3605.3	3668.3	3739.9	3810.1	3873.1	3923.2	3970.5
25°	3668.3	3684.0	3708.4	3751.4	3805.8	3863.1	3940.4	4012.1	4072.2	4119.5	4153.9
27.5°	3931.8	3953.3	3971.9	4013.5	4066.5	4120.9	4198.3	4261.3	4318.6	4364.4	4390.2
30°	4281.3	4302.8	4321.4	4361.6	4410.3	4461.8	4534.9	4590.7	4626.5	4662.3	4660.9
32.5°	4705.3	4728.2	4735.4	4778.4	4828.5	4884.4	4950.3	4981.8	5010.4	5014.7	4988.9
35°	5179.4	5190.9	5219.5	5276.8	5334.1	5380.0	5443.0	5458.7	5458.7	5437.3	5380.0
37.5°	5699.4	5706.5	5746.6	5811.1	5869.8	5917.1	5960.1	5991.6	5975.8	5930.0	5834.0
40°	6269.5	6282.4	6339.6	6396.9	6462.8	6507.2	6553.1	6558.8	6543.0	6475.7	6345.4
42.5°	6813.8	6825.2	6882.5	6972.8	7058.7	7120.3	7163.3	7171.9	7121.7	7060.1	6898.3
45°	7282.1	7312.2	7386.7	7492.7	7617.3	7704.7	7763.4	7787.8	7743.4	7663.2	7475.5
47.5°	7653.1	7683.2	7789.2	7915.3	8069.9	8211.8	8309.2	8360.7	8349.3	8289.1	8084.3
50°	7925.3	7953.9	8068.5	8223.2	8403.7	8579.9	8746.0	8869.2	8912.2	8885.0	8697.3
52.5°	7956.8	8004.1	8138.7	8346.4	8581.3	8821.9	9058.3	9267.4	9409.2	9430.7	9291.8
55°	7517.1	7564.3	7750.5	8058.5	8408.0	8800.5	9178.6	9531.0	9810.3	9953.5	9880.5
57.5°	6480.0	6564.5	6760.8	7121.7	7635.9	8223.2	8826.2	9452.2	10020.8	10400.4	10473.5
60°	4966.0	5066.3	5263.9	5647.8	6220.8	6921.2	7726.2	8651.5	9655.6	10509.3	11019.2
62.5°	3185.6	3280.1	3487.8	3821.6	4288.5	5047.7	5911.4	7010.0	8359.3	9707.1	10921.8
65°	1637.2	1688.8	1797.6	1999.6	2363.4	2930.6	3705.5	4801.3	6343.9	8006.9	9763.0
67.5°	1037.0	1047.1	1071.4	1100.1	1193.2	1389.4	1750.4	2433.6	3702.7	5437.3	7492.7
70°	896.7	896.7	885.2	880.9	892.4	919.6	975.4	1134.4	1562.7	2581.1	4321.4
72.5°	820.7	812.2	792.1	776.3	773.5	773.5	784.9	809.3	878.0	1051.4	1691.6
75°	756.3	731.9	704.7	686.1	678.9	671.8	670.3	674.6	689.0	716.2	807.9
77.5°	677.5	646.0	614.5	595.9	587.3	577.2	568.6	558.6	551.5	560.1	600.2
80°	583.0	547.2	522.8	511.4	502.8	488.4	469.8	452.6	436.9	434.0	458.4
82.5°	469.8	428.3	429.7	434.0	418.3	398.2	378.1	359.5	332.3	318.0	332.3
85°	379.6	358.1	348.1	375.3	352.4	322.3	290.8	257.8	214.9	180.5	196.2
87.5°	147.5	147.5	220.6	339.5	305.1	249.2	213.4	181.9	113.2	87.4	88.8
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°	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8	3361.8
2.5°	3367.5	3370.4	3368.9	3367.5	3367.5	3366.1	3367.5	3367.5
5°	3393.3	3400.4	3400.4	3403.3	3403.3	3404.7	3406.2	3404.7
7.5°	3431.9	3444.8	3453.4	3463.5	3464.9	3466.3	3469.2	3466.3
10°	3470.6	3496.4	3515.0	3533.6	3542.2	3545.1	3548.0	3548.0
12.5°	3519.3	3555.1	3588.1	3621.0	3636.8	3645.4	3645.4	3651.1
15°	3599.5	3635.3	3674.0	3718.4	3745.6	3760.0	3764.3	3764.3
17.5°	3712.7	3744.2	3777.1	3820.1	3854.5	3873.1	3877.4	3876.0
20°	3844.5	3874.5	3893.2	3920.4	3950.5	3971.9	3977.7	3977.7
22.5°	3994.9	4012.1	4014.9	4023.5	4047.9	4076.5	4089.4	4092.3
25°	4161.0	4165.3	4153.9	4153.9	4169.6	4196.8	4209.7	4211.2
27.5°	4375.9	4354.4	4325.7	4315.7	4325.7	4357.3	4373.0	4378.7
30°	4643.7	4592.2	4526.3	4490.5	4484.7	4526.3	4554.9	4559.2
32.5°	4950.3	4875.8	4788.4	4715.3	4696.7	4722.5	4756.9	4755.5
35°	5314.1	5225.3	5119.3	5026.2	4983.2	5009.0	5057.7	5063.4
37.5°	5733.8	5617.7	5496.0	5378.5	5311.2	5318.4	5369.9	5387.1
40°	6202.1	6051.7	5898.5	5740.9	5645.0	5626.3	5689.4	5699.4
42.5°	6703.5	6510.1	6316.7	6121.9	5998.7	5970.1	6043.1	6038.9
45°	7237.7	6991.4	6765.1	6550.2	6404.1	6361.1	6421.3	6421.3
47.5°	7812.1	7508.5	7239.2	6995.7	6836.7	6775.1	6832.4	6836.7
50°	8420.9	8098.6	7782.0	7511.3	7320.8	7242.0	7316.5	7328.0
52.5°	9026.8	8713.1	8393.7	8084.3	7853.7	7757.7	7843.6	7880.9
55°	9641.3	9333.3	9028.2	8726.0	8452.4	8339.2	8430.9	8478.2
57.5°	10290.1	10005.1	9714.3	9409.2	9145.7	8969.5	9066.9	9129.9
60°	11050.7	10807.2	10505.0	10168.4	9901.9	9722.9	9778.8	9834.6
62.5°	11652.3	11746.8	11490.4	11100.8	10758.5	10529.3	10583.7	10642.5
65°	11361.5	12331.2	12559.0	12165.1	11691.0	11334.3	11311.4	11341.5
67.5°	9496.6	11380.1	12753.8	13129.1	12732.3	12236.7	12145.0	12189.4
70°	6352.5	8698.8	11122.3	12927.1	13406.9	13215.0	13124.8	13152.0
72.5°	3050.9	5066.3	7545.7	9944.9	11405.9	12076.3	12291.1	12395.7
75°	1115.8	2011.0	3636.8	5480.2	6616.1	7658.9	8339.2	8617.1
77.5°	673.2	812.2	1161.6	1748.9	1981.0	2217.3	2125.6	2171.5
80°	498.5	562.9	637.4	716.2	742.0	742.0	713.3	690.4
82.5°	349.5	391.0	426.8	469.8	481.3	459.8	378.1	300.8
85°	224.9	243.5	259.3	286.5	279.3	266.4	179.0	159.0
87.5°	103.1	117.5	123.2	136.1	130.3	124.6	88.8	74.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)