

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: P300568

Luminaire Tested: **GLNA-AF-06-LED-E1-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300568  
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-06-LED-E1-RW  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 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: 36267.8 lumens  
Efficiency: N/A  
Efficacy: 108.9 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): 333  
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

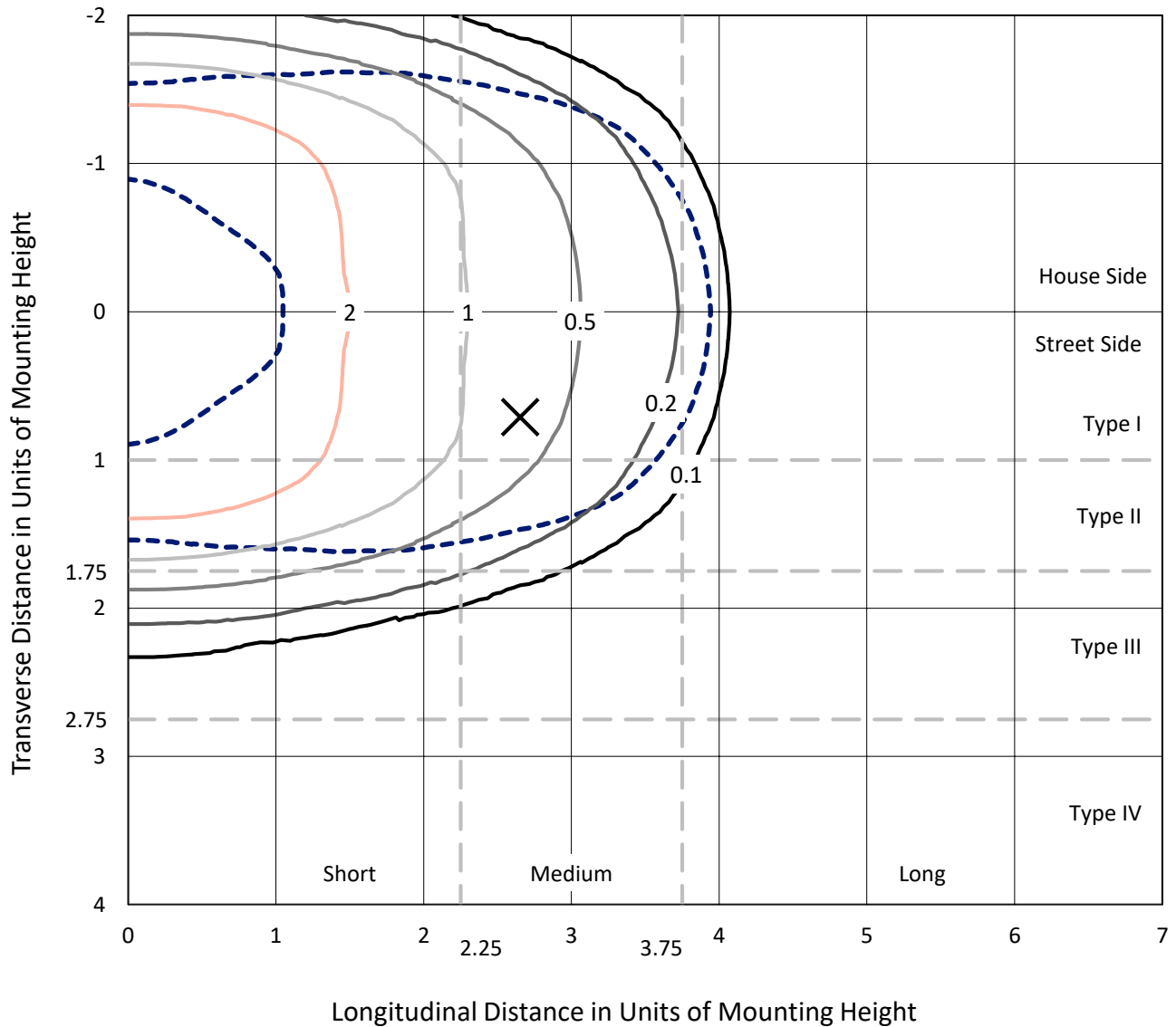


REPORT NUMBER: P300568

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

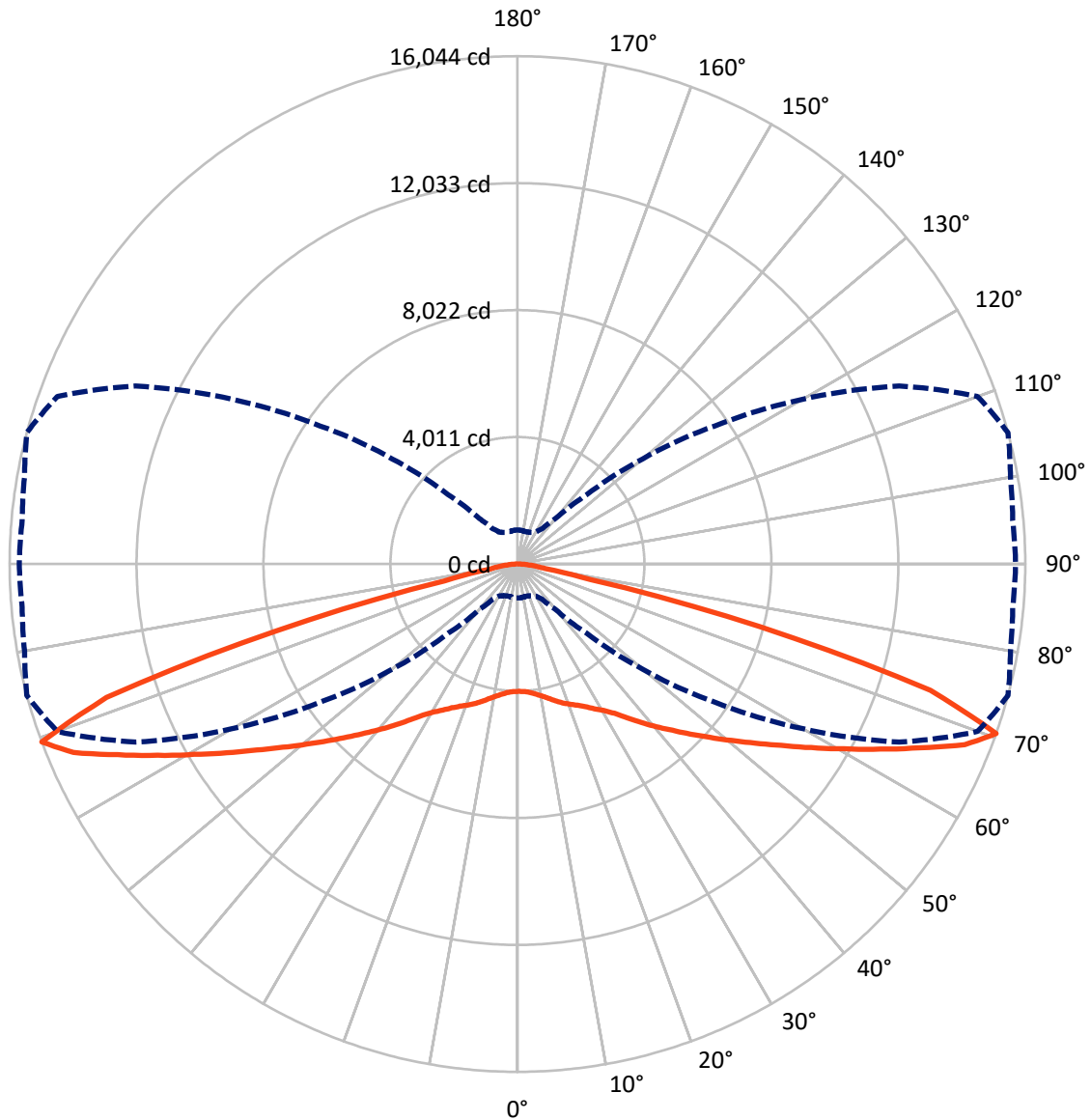


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300568

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P300568

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18133.9	0.0	18133.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18133.9	0.0	18133.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36267.8	0.0	36267.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.8	1.1
10°-20°	1198.8	3.3
20°-30°	2256.4	6.2
30°-40°	3995.6	11.0
40°-50°	6682.0	18.4
50°-60°	9311.4	25.7
60°-70°	8634.8	23.8
70°-80°	3441.2	9.5
80°-90°	361.7	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°	36267.8	100.0
0°-180°	36267.8	100.0



REPORT NUMBER: P300568

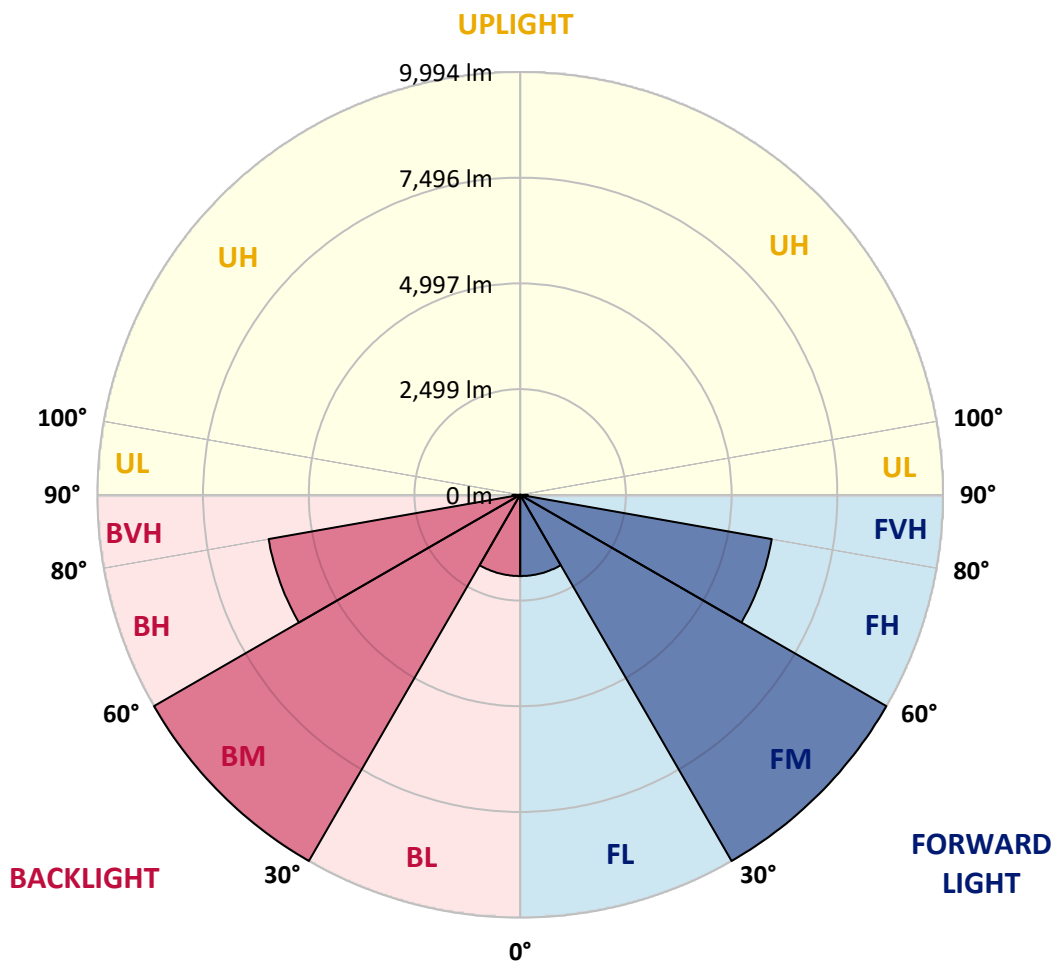
CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.5	5.3			
FM	(30°-60°)	9994.5	27.6			
FH	(60°-80°)	6038.0	16.6			G3/7500
FVH	(80°-90°)	180.9	0.5			G2/225
BL	(0°-30°)	1920.5	5.3	B3/2500		
BM	(30°-60°)	9994.5	27.6	B5		
BH	(60°-80°)	6038.0	16.6	B5		G5
BVH	(80°-90°)	180.9	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





REPORT NUMBER: P300568

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9
2.5°	4016.1	4012.7	4016.1	4014.4	4017.8	4017.8	4021.2	4028.1	4028.1	4033.2	4031.5
5°	3976.7	3975.0	3980.1	3985.2	3990.4	4000.7	4010.9	4026.4	4038.4	4046.9	4055.5
7.5°	3899.5	3899.5	3906.4	3918.4	3930.4	3952.7	3976.7	4007.5	4038.4	4064.1	4086.4
10°	3836.1	3839.5	3848.1	3868.7	3889.2	3923.5	3956.1	4000.7	4043.5	4086.4	4120.6
12.5°	3798.4	3803.5	3819.0	3849.8	3884.1	3930.4	3980.1	4036.7	4084.7	4136.1	4170.4
15°	3810.4	3813.8	3836.1	3873.8	3918.4	3976.7	4043.5	4110.4	4166.9	4221.8	4268.1
17.5°	3877.2	3882.4	3908.1	3951.0	3997.2	4065.8	4137.8	4213.2	4283.5	4345.2	4401.8
20°	3997.2	4002.4	4034.9	4081.2	4136.1	4206.4	4278.3	4357.2	4436.0	4501.2	4564.6
22.5°	4166.9	4175.5	4206.4	4252.6	4314.3	4389.8	4475.5	4559.5	4634.9	4694.9	4751.4
25°	4389.8	4408.6	4437.8	4489.2	4554.3	4622.9	4715.4	4801.1	4873.1	4929.7	4970.8
27.5°	4705.1	4730.9	4753.1	4802.9	4866.3	4931.4	5024.0	5099.4	5167.9	5222.8	5253.7
30°	5123.4	5149.1	5171.4	5219.4	5277.7	5339.4	5426.8	5493.6	5536.5	5579.3	5577.6
32.5°	5630.8	5658.2	5666.7	5718.2	5778.2	5845.0	5923.9	5961.6	5995.8	6001.0	5970.1
35°	6198.1	6211.8	6246.1	6314.7	6383.2	6438.1	6513.5	6532.4	6532.4	6506.6	6438.1
37.5°	6820.3	6828.9	6876.9	6954.0	7024.3	7080.9	7132.3	7170.0	7151.1	7096.3	6981.4
40°	7502.5	7518.0	7586.5	7655.1	7733.9	7787.1	7841.9	7848.8	7829.9	7749.4	7593.4
42.5°	8153.9	8167.6	8236.2	8344.1	8447.0	8520.7	8572.1	8582.4	8522.4	8448.7	8255.0
45°	8714.4	8750.4	8839.5	8966.3	9115.5	9220.0	9290.3	9319.4	9266.3	9170.3	8945.8
47.5°	9158.3	9194.3	9321.2	9472.0	9657.1	9826.8	9943.4	10005.1	9991.4	9919.4	9674.3
50°	9484.0	9518.3	9655.4	9840.5	10056.5	10267.3	10466.2	10613.6	10665.0	10632.4	10407.9
52.5°	9521.7	9578.3	9739.4	9987.9	10269.0	10557.0	10839.8	11090.1	11259.8	11285.5	11119.2
55°	8995.5	9052.1	9274.9	9643.4	10061.6	10531.3	10983.8	11405.5	11739.7	11911.1	11823.7
57.5°	7754.5	7855.6	8090.5	8522.4	9137.8	9840.5	10562.2	11311.2	11991.7	12445.9	12533.3
60°	5942.7	6062.7	6299.2	6758.6	7444.2	8282.4	9245.7	10353.0	11554.6	12576.2	13186.4
62.5°	3812.1	3925.2	4173.8	4573.2	5132.0	6040.4	7074.0	8388.7	10003.4	11616.3	13069.9
65°	1959.2	2020.9	2151.2	2392.9	2828.2	3507.0	4434.3	5745.6	7591.7	9581.7	11683.2
67.5°	1241.0	1253.0	1282.1	1316.4	1427.8	1662.7	2094.6	2912.2	4430.9	6506.6	8966.3
70°	1073.0	1073.0	1059.3	1054.2	1067.9	1100.4	1167.3	1357.6	1870.1	3088.8	5171.4
72.5°	982.2	971.9	947.9	929.0	925.6	925.6	939.3	968.5	1050.7	1258.1	2024.3
75°	905.0	875.9	843.3	821.0	812.5	803.9	802.2	807.3	824.5	857.0	966.7
77.5°	810.8	773.0	735.3	713.1	702.8	690.8	680.5	668.5	659.9	670.2	718.2
80°	697.6	654.8	625.6	611.9	601.6	584.5	562.2	541.6	522.8	519.4	548.5
82.5°	562.2	512.5	514.2	519.4	500.5	476.5	452.5	430.2	397.7	380.5	397.7
85°	454.2	428.5	416.5	449.1	421.7	385.7	348.0	308.5	257.1	216.0	234.8
87.5°	176.6	176.6	264.0	406.2	365.1	298.2	255.4	217.7	135.4	104.6	106.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300568

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9	4022.9
2.5°	4029.8	4033.2	4031.5	4029.8	4029.8	4028.1	4029.8	4029.8
5°	4060.7	4069.2	4069.2	4072.7	4072.7	4074.4	4076.1	4074.4
7.5°	4106.9	4122.4	4132.6	4144.6	4146.4	4148.1	4151.5	4148.1
10°	4153.2	4184.1	4206.4	4228.6	4238.9	4242.3	4245.8	4245.8
12.5°	4211.5	4254.3	4293.8	4333.2	4352.0	4362.3	4362.3	4369.2
15°	4307.5	4350.3	4396.6	4449.8	4482.3	4499.5	4504.6	4504.6
17.5°	4442.9	4480.6	4520.0	4571.4	4612.6	4634.9	4640.0	4638.3
20°	4600.6	4636.6	4658.9	4691.4	4727.4	4753.1	4760.0	4760.0
22.5°	4780.6	4801.1	4804.6	4814.8	4844.0	4878.3	4893.7	4897.1
25°	4979.4	4984.5	4970.8	4970.8	4989.7	5022.3	5037.7	5039.4
27.5°	5236.5	5210.8	5176.5	5164.5	5176.5	5214.2	5233.1	5239.9
30°	5557.0	5495.3	5416.5	5373.6	5366.8	5416.5	5450.8	5455.9
32.5°	5923.9	5834.7	5730.2	5642.7	5620.5	5651.3	5692.5	5690.7
35°	6359.2	6253.0	6126.1	6014.7	5963.3	5994.1	6052.4	6059.3
37.5°	6861.5	6722.6	6576.9	6436.4	6355.8	6364.4	6426.1	6446.7
40°	7422.0	7242.0	7058.6	6870.0	6755.2	6732.9	6808.3	6820.3
42.5°	8021.9	7790.5	7559.1	7326.0	7178.6	7144.3	7231.7	7226.6
45°	8661.2	8366.4	8095.6	7838.5	7663.6	7612.2	7684.2	7684.2
47.5°	9348.6	8985.2	8663.0	8371.6	8181.3	8107.6	8176.2	8181.3
50°	10077.1	9691.4	9312.6	8988.6	8760.7	8666.4	8755.5	8769.2
52.5°	10802.1	10426.7	10044.5	9674.3	9398.3	9283.5	9386.3	9430.9
55°	11537.5	11168.9	10803.8	10442.2	10114.8	9979.4	10089.1	10145.6
57.5°	12313.9	11972.8	11624.9	11259.8	10944.4	10733.6	10850.1	10925.5
60°	13224.1	12932.7	12571.1	12168.2	11849.4	11635.2	11702.0	11768.9
62.5°	13944.0	14057.2	13750.3	13284.1	12874.5	12600.2	12665.3	12735.6
65°	13596.1	14756.5	15029.0	14557.7	13990.3	13563.5	13536.1	13572.1
67.5°	11364.3	13618.4	15262.2	15711.3	15236.5	14643.4	14533.7	14586.8
70°	7601.9	10409.6	13309.8	15469.6	16043.8	15814.1	15706.1	15738.7
72.5°	3651.0	6062.7	9029.8	11900.9	13649.2	14451.4	14708.5	14833.6
75°	1335.3	2406.6	4352.0	6558.1	7917.3	9165.2	9979.4	10311.9
77.5°	805.6	971.9	1390.1	2092.9	2370.6	2653.4	2543.7	2598.5
80°	596.5	673.6	762.8	857.0	887.9	887.9	853.6	826.2
82.5°	418.2	467.9	510.8	562.2	575.9	550.2	452.5	360.0
85°	269.1	291.4	310.2	342.8	334.2	318.8	214.3	190.3
87.5°	123.4	140.6	147.4	162.8	156.0	149.1	106.3	89.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)