

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: P300698

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300698  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K 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: 30966.6 lumens  
Efficiency: N/A  
Efficacy: 120.5 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): 257  
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

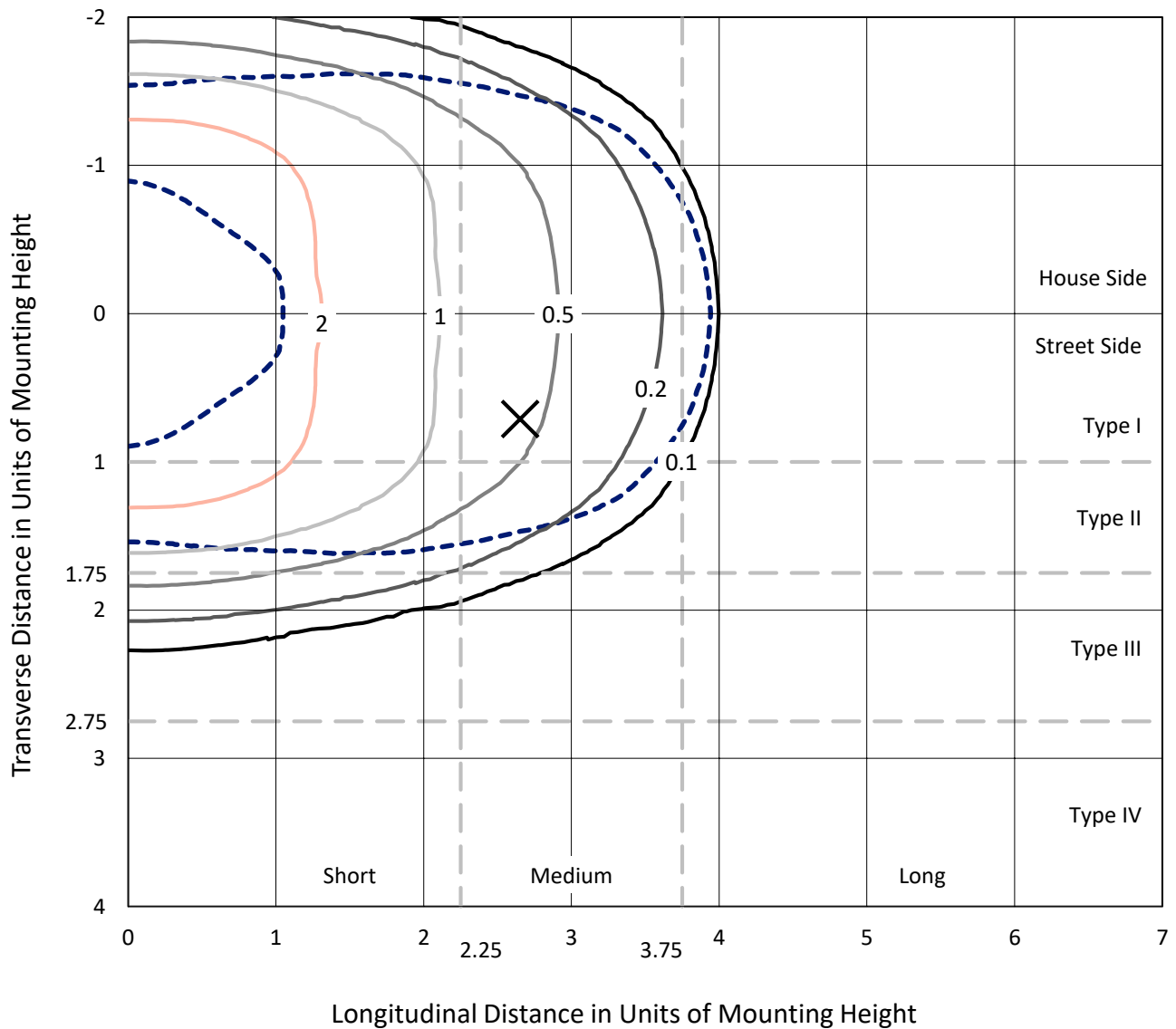


REPORT NUMBER: P300698

CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-7030-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

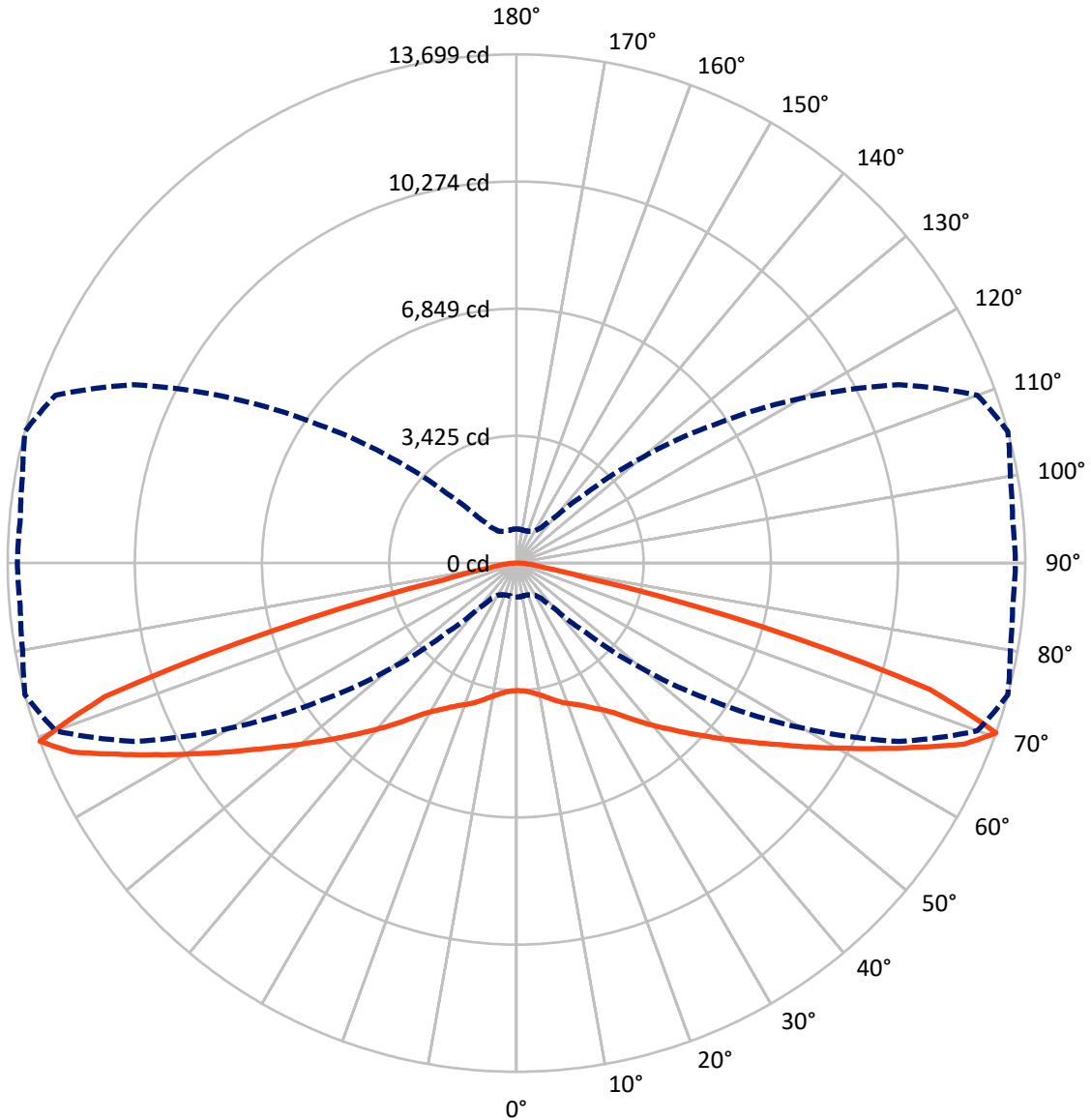


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300698

CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-7030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300698

CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-7030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15483.3	0.0	15483.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15483.3	0.0	15483.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30966.6	0.0	30966.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.4	1.1
10°-20°	1023.6	3.3
20°-30°	1926.6	6.2
30°-40°	3411.6	11.0
40°-50°	5705.3	18.4
50°-60°	7950.3	25.7
60°-70°	7372.7	23.8
70°-80°	2938.2	9.5
80°-90°	308.8	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°	30966.6	100.0
0°-180°	30966.6	100.0



REPORT NUMBER: P300698

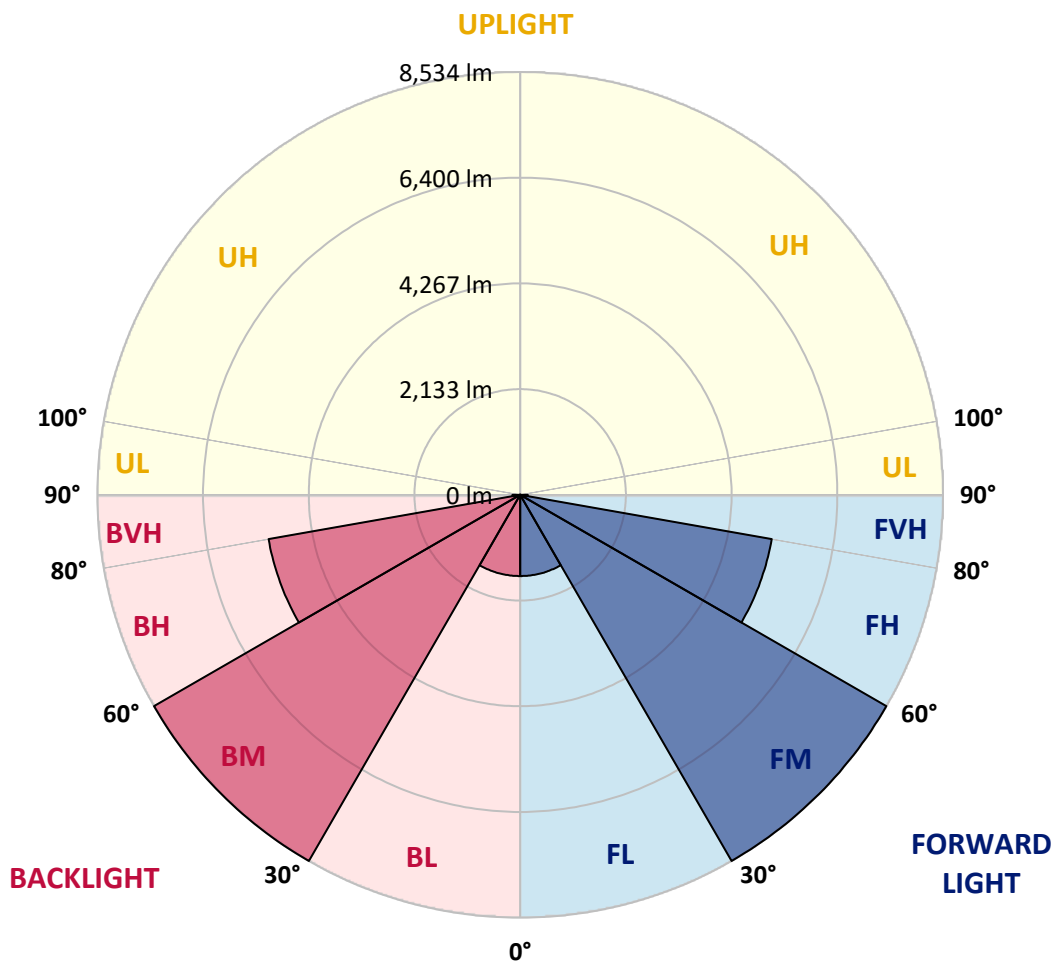
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1639.8	5.3			
FM	(30°-60°)	8533.6	27.6			
FH	(60°-80°)	5155.4	16.6			G3/7500
FVH	(80°-90°)	154.4	0.5			G2/225
BL	(0°-30°)	1639.8	5.3	B3/2500		
BM	(30°-60°)	8533.6	27.6	B5		
BH	(60°-80°)	5155.4	16.6	B5		G5
BVH	(80°-90°)	154.4	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: P300698

CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9
2.5°	3429.1	3426.1	3429.1	3427.6	3430.5	3430.5	3433.5	3439.3	3439.3	3443.7	3442.2
5°	3395.4	3393.9	3398.3	3402.7	3407.1	3415.9	3424.7	3437.8	3448.1	3455.4	3462.7
7.5°	3329.5	3329.5	3335.4	3345.6	3355.9	3374.9	3395.4	3421.7	3448.1	3470.0	3489.1
10°	3275.4	3278.3	3285.6	3303.2	3320.8	3350.0	3377.8	3415.9	3452.5	3489.1	3518.3
12.5°	3243.2	3247.6	3260.8	3287.1	3316.4	3355.9	3398.3	3446.6	3487.6	3531.5	3560.8
15°	3253.4	3256.4	3275.4	3307.6	3345.6	3395.4	3452.5	3509.6	3557.9	3604.7	3644.2
17.5°	3310.5	3314.9	3336.9	3373.4	3413.0	3471.5	3533.0	3597.4	3657.4	3710.1	3758.4
20°	3413.0	3417.4	3445.2	3484.7	3531.5	3591.5	3653.0	3720.3	3787.6	3843.2	3897.4
22.5°	3557.9	3565.2	3591.5	3631.0	3683.7	3748.1	3821.3	3893.0	3957.4	4008.6	4056.9
25°	3748.1	3764.2	3789.1	3833.0	3888.6	3947.2	4026.2	4099.4	4160.8	4209.1	4244.2
27.5°	4017.4	4039.4	4058.4	4100.8	4155.0	4210.6	4289.6	4354.0	4412.6	4459.4	4485.7
30°	4374.5	4396.5	4415.5	4456.5	4506.2	4558.9	4633.5	4690.6	4727.2	4763.8	4762.3
32.5°	4807.7	4831.1	4838.4	4882.3	4933.6	4990.7	5058.0	5090.2	5119.4	5123.8	5097.5
35°	5292.1	5303.8	5333.1	5391.7	5450.2	5497.0	5561.4	5577.5	5577.5	5555.6	5497.0
37.5°	5823.4	5830.7	5871.7	5937.6	5997.6	6045.9	6089.8	6122.0	6105.9	6059.0	5961.0
40°	6405.9	6419.1	6477.6	6536.1	6603.5	6648.8	6695.7	6701.5	6685.4	6616.6	6483.5
42.5°	6962.0	6973.7	7032.3	7124.5	7212.3	7275.2	7319.1	7327.9	7276.7	7213.8	7048.4
45°	7440.6	7471.3	7547.4	7655.7	7783.1	7872.3	7932.4	7957.2	7911.9	7829.9	7638.2
47.5°	7819.7	7850.4	7958.7	8087.5	8245.5	8390.4	8490.0	8542.6	8530.9	8469.5	8260.2
50°	8097.7	8127.0	8244.1	8402.1	8586.6	8766.6	8936.3	9062.2	9106.1	9078.3	8886.6
52.5°	8129.9	8178.2	8315.8	8528.0	8768.0	9013.9	9255.4	9469.1	9614.0	9635.9	9493.9
55°	7680.6	7728.9	7919.2	8233.8	8590.9	8992.0	9378.3	9738.4	10023.7	10170.1	10095.5
57.5°	6621.0	6707.4	6907.9	7276.7	7802.1	8402.1	9018.3	9657.9	10238.9	10626.7	10701.4
60°	5074.1	5176.5	5378.5	5770.7	6356.1	7071.8	7894.3	8839.7	9865.7	10737.9	11259.0
62.5°	3254.9	3351.5	3563.7	3904.7	4381.8	5157.5	6040.0	7162.5	8541.2	9918.4	11159.4
65°	1672.8	1725.5	1836.7	2043.1	2414.8	2994.4	3786.2	4905.8	6482.0	8181.2	9975.4
67.5°	1059.6	1069.8	1094.7	1124.0	1219.1	1419.6	1788.4	2486.5	3783.2	5555.6	7655.7
70°	916.2	916.2	904.5	900.1	911.8	939.6	996.7	1159.1	1596.7	2637.3	4415.5
72.5°	838.6	829.8	809.3	793.2	790.3	790.3	802.0	826.9	897.1	1074.2	1728.4
75°	772.7	747.9	720.1	701.0	693.7	686.4	684.9	689.3	704.0	731.8	825.4
77.5°	692.3	660.1	627.9	608.8	600.0	589.8	581.0	570.8	563.5	572.2	613.2
80°	595.7	559.1	534.2	522.5	513.7	499.1	480.0	462.5	446.4	443.5	468.3
82.5°	480.0	437.6	439.1	443.5	427.4	406.9	386.4	367.3	339.5	324.9	339.5
85°	387.8	365.9	355.6	383.4	360.0	329.3	297.1	263.4	219.5	184.4	200.5
87.5°	150.7	150.7	225.4	346.9	311.7	254.7	218.1	185.9	115.6	89.3	90.7
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: P300698

CATALOG NUMBER: GLNA-AF-08-LED-E1-RW-7030-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9
2.5°	3440.8	3443.7	3442.2	3440.8	3440.8	3439.3	3440.8	3440.8
5°	3467.1	3474.4	3474.4	3477.4	3477.4	3478.8	3480.3	3478.8
7.5°	3506.6	3519.8	3528.6	3538.8	3540.3	3541.8	3544.7	3541.8
10°	3546.1	3572.5	3591.5	3610.5	3619.3	3622.2	3625.2	3625.2
12.5°	3595.9	3632.5	3666.2	3699.8	3715.9	3724.7	3724.7	3730.5
15°	3677.9	3714.4	3754.0	3799.3	3827.1	3841.8	3846.2	3846.2
17.5°	3793.5	3825.7	3859.3	3903.2	3938.4	3957.4	3961.8	3960.3
20°	3928.1	3958.9	3977.9	4005.7	4036.4	4058.4	4064.2	4064.2
22.5°	4081.8	4099.4	4102.3	4111.1	4135.9	4165.2	4178.4	4181.3
25°	4251.6	4256.0	4244.2	4244.2	4260.3	4288.2	4301.3	4302.8
27.5°	4471.1	4449.1	4419.9	4409.6	4419.9	4452.1	4468.2	4474.0
30°	4744.8	4692.1	4624.8	4588.2	4582.3	4624.8	4654.0	4658.4
32.5°	5058.0	4981.9	4892.6	4818.0	4798.9	4825.3	4860.4	4858.9
35°	5429.7	5339.0	5230.7	5135.5	5091.6	5118.0	5167.7	5173.6
37.5°	5858.5	5740.0	5615.6	5495.6	5426.8	5434.1	5486.8	5504.4
40°	6337.1	6183.4	6026.8	5865.8	5767.8	5748.8	5813.2	5823.4
42.5°	6849.3	6651.8	6454.2	6255.1	6129.3	6100.0	6174.6	6170.3
45°	7395.2	7143.5	6912.3	6692.7	6543.5	6499.6	6561.0	6561.0
47.5°	7982.1	7671.8	7396.7	7147.9	6985.4	6922.5	6981.1	6985.4
50°	8604.1	8274.8	7951.4	7674.8	7480.1	7399.6	7475.7	7487.4
52.5°	9223.2	8902.7	8576.3	8260.2	8024.6	7926.5	8014.3	8052.4
55°	9851.0	9536.4	9224.7	8915.8	8636.3	8520.7	8614.4	8662.7
57.5°	10514.0	10222.8	9925.7	9614.0	9344.7	9164.6	9264.2	9328.6
60°	11291.2	11042.4	10733.6	10389.6	10117.4	9934.5	9991.5	10048.6
62.5°	11905.8	12002.4	11740.5	11342.4	10992.6	10758.4	10814.1	10874.1
65°	11608.8	12599.6	12832.3	12429.8	11945.4	11580.9	11557.5	11588.3
67.5°	9703.2	11627.8	13031.3	13414.8	13009.4	12503.0	12409.3	12454.7
70°	6490.8	8888.0	11364.3	13208.4	13698.7	13502.6	13410.4	13438.2
72.5°	3117.3	5176.5	7709.9	10161.3	11654.1	12339.1	12558.6	12665.4
75°	1140.1	2054.8	3715.9	5599.5	6760.1	7825.5	8520.7	8804.6
77.5°	687.9	829.8	1186.9	1787.0	2024.1	2265.6	2171.9	2218.7
80°	509.3	575.2	651.3	731.8	758.1	758.1	728.8	705.4
82.5°	357.1	399.5	436.1	480.0	491.7	469.8	386.4	307.3
85°	229.8	248.8	264.9	292.7	285.4	272.2	182.9	162.5
87.5°	105.4	120.0	125.9	139.0	133.2	127.3	90.7	76.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)