

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: P300635

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300635  
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-07-LED-E1-RW-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K 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: 34650.7 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

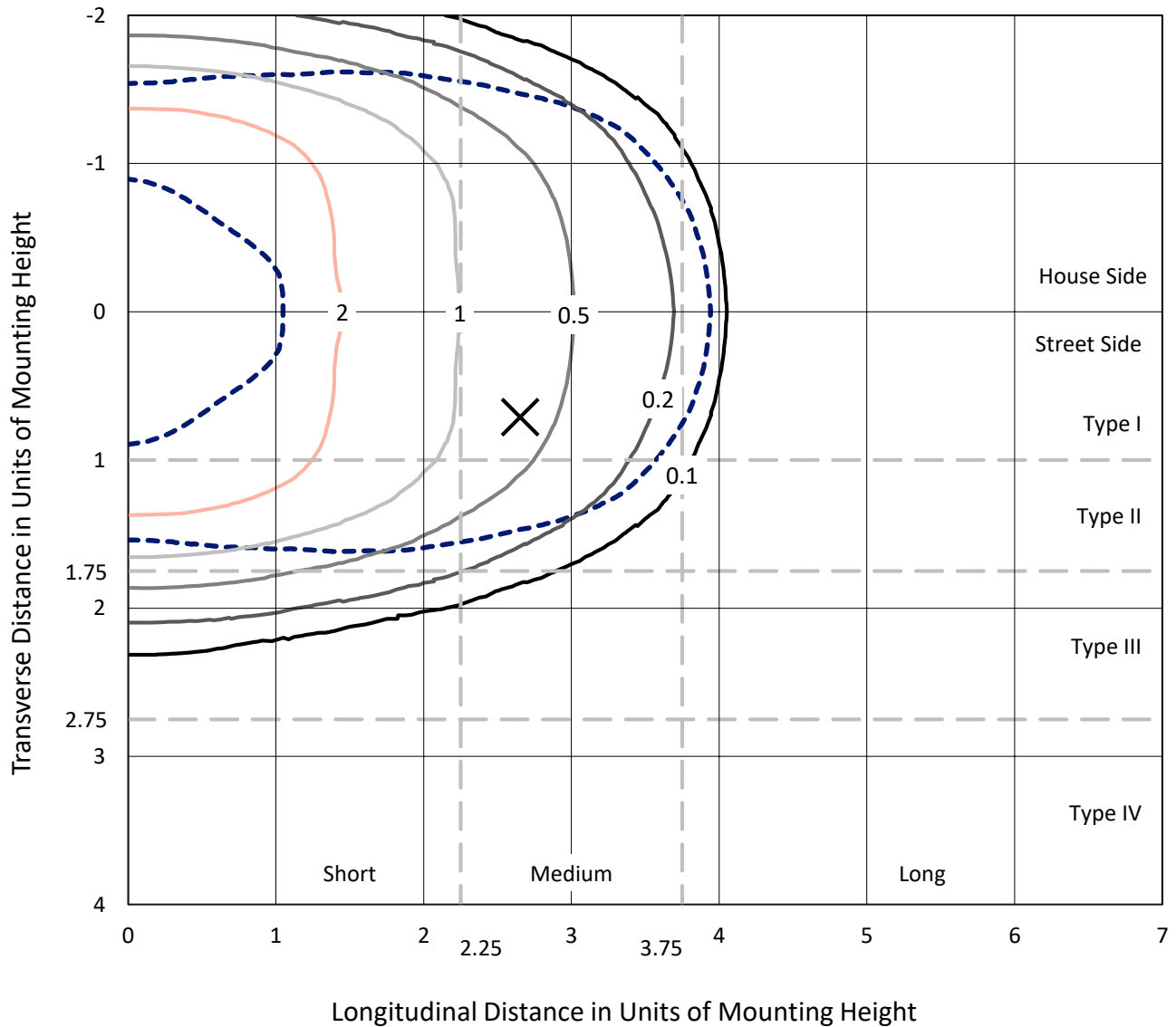
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

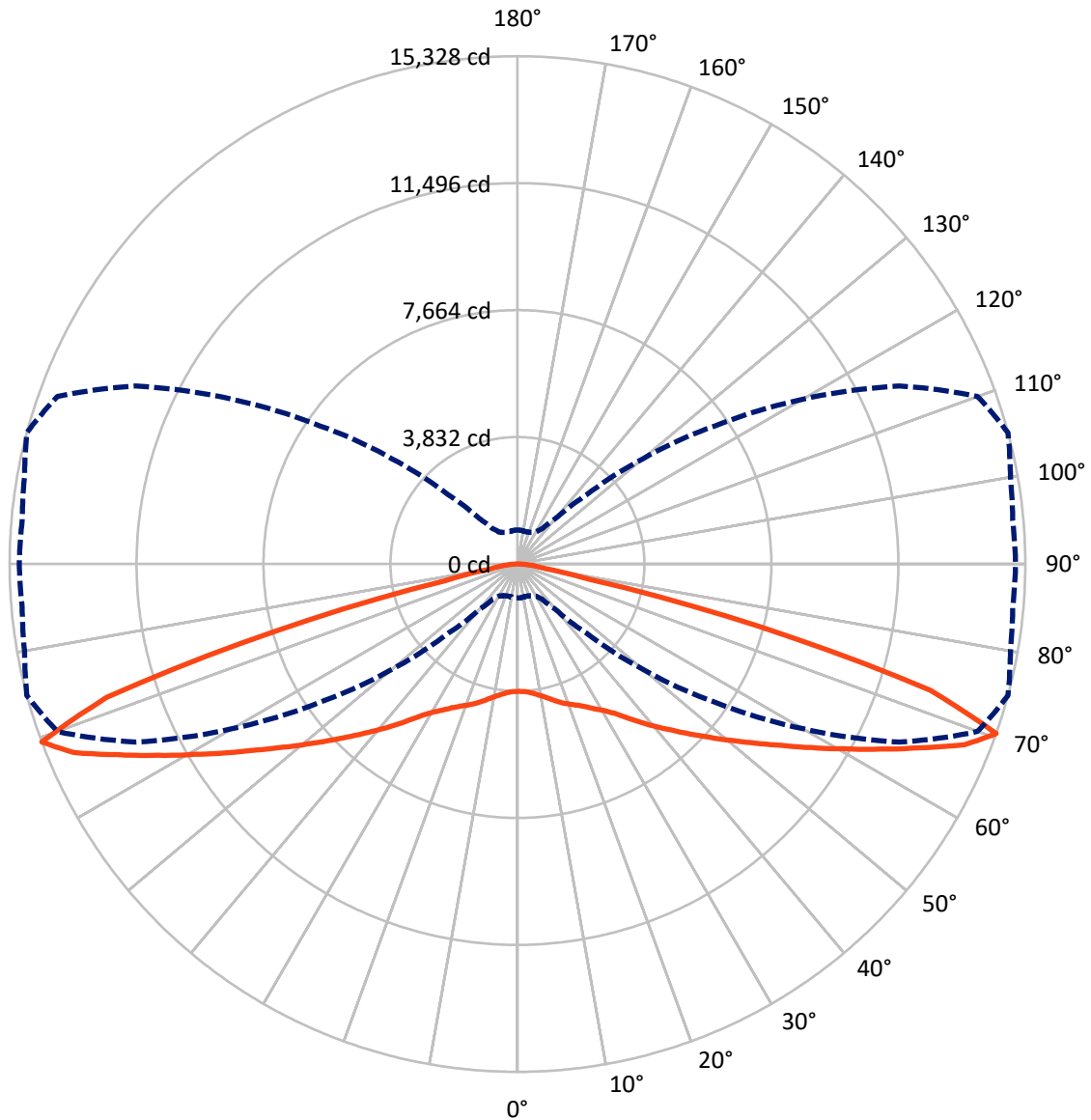
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	17325.3	0.0	17325.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17325.3	0.0	17325.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34650.7	0.0	34650.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.6	1.1
10°-20°	1145.4	3.3
20°-30°	2155.8	6.2
30°-40°	3817.5	11.0
40°-50°	6384.1	18.4
50°-60°	8896.2	25.7
60°-70°	8249.8	23.8
70°-80°	3287.8	9.5
80°-90°	345.6	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°	34650.7	100.0
0°-180°	34650.7	100.0



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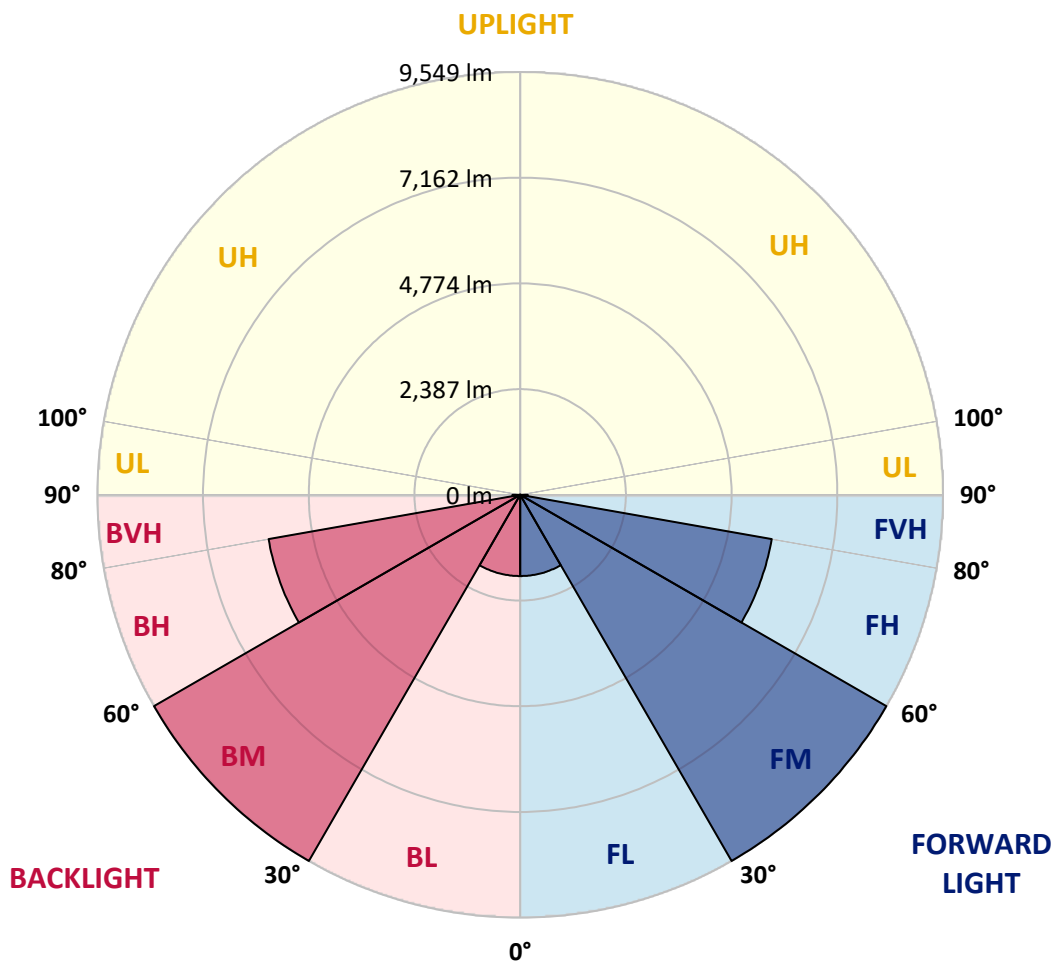
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.9	5.3			
FM	(30°-60°)	9548.9	27.6			
FH	(60°-80°)	5768.8	16.6			G3/7500
FVH	(80°-90°)	172.8	0.5			G2/225
BL	(0°-30°)	1834.9	5.3	B3/2500		
BM	(30°-60°)	9548.9	27.6	B5		
BH	(60°-80°)	5768.8	16.6	B5		G5
BVH	(80°-90°)	172.8	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°	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6
2.5°	3837.0	3833.7	3837.0	3835.4	3838.7	3838.7	3841.9	3848.5	3848.5	3853.4	3851.8
5°	3799.4	3797.7	3802.6	3807.5	3812.5	3822.3	3832.1	3846.8	3858.3	3866.5	3874.7
7.5°	3725.7	3725.7	3732.2	3743.7	3755.1	3776.4	3799.4	3828.8	3858.3	3882.9	3904.2
10°	3665.1	3668.3	3676.5	3696.2	3715.8	3748.6	3779.7	3822.3	3863.2	3904.2	3936.9
12.5°	3629.0	3633.9	3648.7	3678.2	3710.9	3755.1	3802.6	3856.7	3902.5	3951.7	3984.4
15°	3640.5	3643.8	3665.1	3701.1	3743.7	3799.4	3863.2	3927.1	3981.1	4033.5	4077.8
17.5°	3704.4	3709.3	3733.8	3774.8	3819.0	3884.5	3953.3	4025.3	4092.5	4151.4	4205.5
20°	3819.0	3823.9	3855.0	3899.2	3951.7	4018.8	4087.6	4162.9	4238.2	4300.5	4361.1
22.5°	3981.1	3989.3	4018.8	4063.0	4122.0	4194.0	4275.9	4356.2	4428.2	4485.5	4539.6
25°	4194.0	4212.0	4239.9	4289.0	4351.2	4416.7	4505.2	4587.1	4655.8	4709.9	4749.2
27.5°	4495.4	4519.9	4541.2	4588.7	4649.3	4711.5	4800.0	4872.0	4937.5	4989.9	5019.4
30°	4894.9	4919.5	4940.8	4986.6	5042.3	5101.3	5184.8	5248.7	5289.6	5330.6	5328.9
32.5°	5379.7	5405.9	5414.1	5463.2	5520.5	5584.4	5659.7	5695.8	5728.5	5733.4	5703.9
35°	5921.7	5934.8	5967.6	6033.1	6098.6	6151.0	6223.1	6241.1	6241.1	6216.5	6151.0
37.5°	6516.2	6524.4	6570.3	6644.0	6711.1	6765.1	6814.3	6850.3	6832.3	6779.9	6670.2
40°	7168.0	7182.7	7248.2	7313.8	7389.1	7439.9	7492.3	7498.8	7480.8	7403.8	7254.8
42.5°	7790.3	7803.4	7868.9	7972.1	8070.3	8140.8	8189.9	8199.7	8142.4	8072.0	7886.9
45°	8325.8	8360.2	8445.4	8566.6	8709.0	8808.9	8876.1	8903.9	8853.1	8761.4	8546.9
47.5°	8750.0	8784.4	8905.5	9049.7	9226.5	9388.7	9500.0	9559.0	9545.9	9477.1	9242.9
50°	9061.1	9093.9	9224.9	9401.8	9608.1	9809.5	9999.5	10140.3	10189.5	10158.4	9943.8
52.5°	9097.2	9151.2	9305.1	9542.6	9811.2	10086.3	10356.5	10595.6	10757.7	10782.3	10623.4
55°	8594.4	8648.4	8861.3	9213.4	9613.0	10061.7	10494.1	10896.9	11216.3	11380.0	11296.5
57.5°	7408.7	7505.4	7729.7	8142.4	8730.3	9401.8	10091.2	10806.9	11457.0	11891.0	11974.5
60°	5677.7	5792.4	6018.4	6457.3	7112.3	7913.1	8833.5	9891.4	11039.4	12015.4	12598.5
62.5°	3642.1	3750.2	3987.7	4369.3	4903.1	5771.1	6758.6	8014.7	9557.3	11098.4	12487.1
65°	1871.8	1930.8	2055.3	2286.2	2702.1	3350.6	4236.6	5489.4	7253.2	9154.5	11162.2
67.5°	1185.7	1197.1	1225.0	1257.7	1364.2	1588.5	2001.2	2782.4	4233.3	6216.5	8566.6
70°	1025.2	1025.2	1012.1	1007.2	1020.3	1051.4	1115.2	1297.0	1786.7	2951.0	4940.8
72.5°	938.4	928.5	905.6	887.6	884.3	884.3	897.4	925.3	1003.9	1202.0	1934.1
75°	864.7	836.8	805.7	784.4	776.2	768.1	766.4	771.3	787.7	818.8	923.6
77.5°	774.6	738.6	702.6	681.3	671.4	660.0	650.1	638.7	630.5	640.3	686.2
80°	666.5	625.6	597.7	584.6	574.8	558.4	537.1	517.5	499.5	496.2	524.0
82.5°	537.1	489.7	491.3	496.2	478.2	455.3	432.3	411.1	379.9	363.6	379.9
85°	434.0	409.4	397.9	429.1	402.9	368.5	332.4	294.8	245.6	206.3	224.4
87.5°	168.7	168.7	252.2	388.1	348.8	285.0	244.0	208.0	129.4	99.9	101.5
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°	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6	3843.6
2.5°	3850.1	3853.4	3851.8	3850.1	3850.1	3848.5	3850.1	3850.1
5°	3879.6	3887.8	3887.8	3891.1	3891.1	3892.7	3894.3	3892.7
7.5°	3923.8	3938.6	3948.4	3959.8	3961.5	3963.1	3966.4	3963.1
10°	3968.0	3997.5	4018.8	4040.1	4049.9	4053.2	4056.5	4056.5
12.5°	4023.7	4064.7	4102.3	4140.0	4158.0	4167.8	4167.8	4174.4
15°	4115.4	4156.4	4200.6	4251.3	4282.5	4298.8	4303.7	4303.7
17.5°	4244.8	4280.8	4318.5	4367.6	4406.9	4428.2	4433.1	4431.5
20°	4395.5	4429.8	4451.1	4482.3	4516.6	4541.2	4547.8	4547.8
22.5°	4567.4	4587.1	4590.3	4600.2	4628.0	4660.8	4675.5	4678.8
25°	4757.4	4762.3	4749.2	4749.2	4767.2	4798.3	4813.1	4814.7
27.5°	5003.0	4978.5	4945.7	4934.2	4945.7	4981.7	4999.8	5006.3
30°	5309.3	5250.3	5175.0	5134.0	5127.5	5175.0	5207.7	5212.6
32.5°	5659.7	5574.6	5474.7	5391.1	5369.9	5399.3	5438.6	5437.0
35°	6075.7	5974.2	5853.0	5746.5	5697.4	5726.9	5782.5	5789.1
37.5°	6555.5	6422.9	6283.7	6149.4	6072.4	6080.6	6139.6	6159.2
40°	7091.0	6919.1	6743.8	6563.7	6454.0	6432.7	6504.8	6516.2
42.5°	7664.2	7443.1	7222.0	6999.3	6858.5	6825.7	6909.3	6904.3
45°	8275.1	7993.4	7734.6	7489.0	7321.9	7272.8	7341.6	7341.6
47.5°	8931.8	8584.6	8276.7	7998.3	7816.5	7746.1	7811.6	7816.5
50°	9627.8	9259.3	8897.4	8587.8	8370.0	8280.0	8365.1	8378.2
52.5°	10320.5	9961.8	9596.6	9242.9	8979.2	8869.5	8967.8	9010.4
55°	11023.0	10670.9	10322.1	9976.6	9663.8	9534.4	9639.2	9693.3
57.5°	11764.9	11439.0	11106.6	10757.7	10456.4	10255.0	10366.3	10438.4
60°	12634.5	12356.1	12010.5	11625.7	11321.1	11116.4	11180.2	11244.1
62.5°	13322.3	13430.4	13137.2	12691.8	12300.4	12038.4	12100.6	12167.8
65°	12989.9	14098.5	14358.9	13908.6	13366.5	12958.7	12932.5	12966.9
67.5°	10857.6	13011.1	14581.6	15010.7	14557.1	13990.5	13885.6	13936.4
70°	7263.0	9945.5	12716.4	14779.8	15328.4	15109.0	15005.8	15036.9
72.5°	3488.2	5792.4	8627.1	11370.2	13040.6	13807.0	14052.7	14172.2
75°	1275.7	2299.3	4158.0	6265.7	7564.3	8756.5	9534.4	9852.1
77.5°	769.7	928.5	1328.1	1999.6	2264.9	2535.1	2430.3	2482.7
80°	569.9	643.6	728.8	818.8	848.3	848.3	815.6	789.3
82.5°	399.6	447.1	488.0	537.1	550.3	525.7	432.3	343.9
85°	257.1	278.4	296.4	327.5	319.3	304.6	204.7	181.8
87.5°	117.9	134.3	140.8	155.6	149.0	142.5	101.5	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)