

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: P193563

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193563  
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: GLEON-AF-05-LED-E1-RW-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27222 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 320  
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

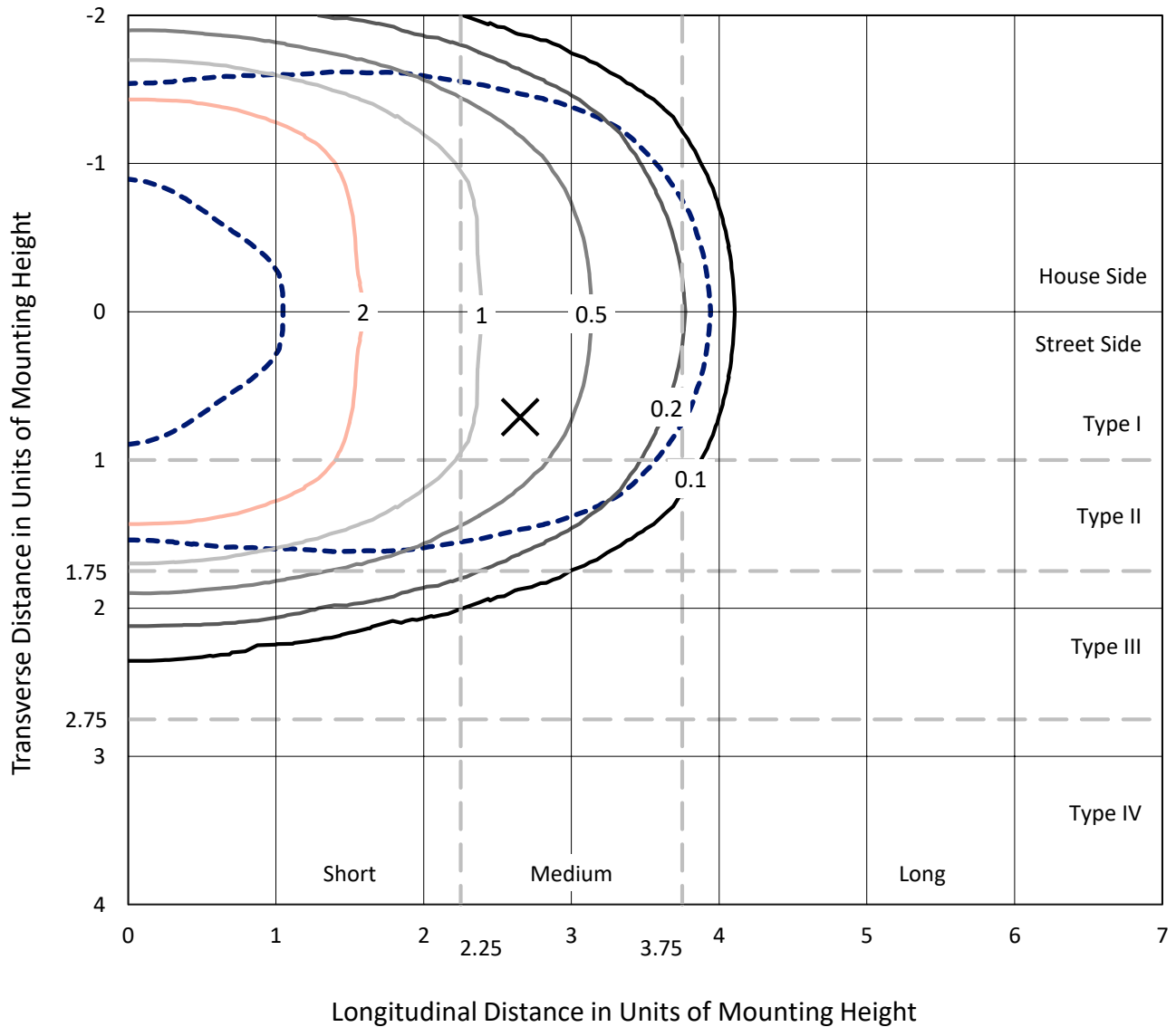


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

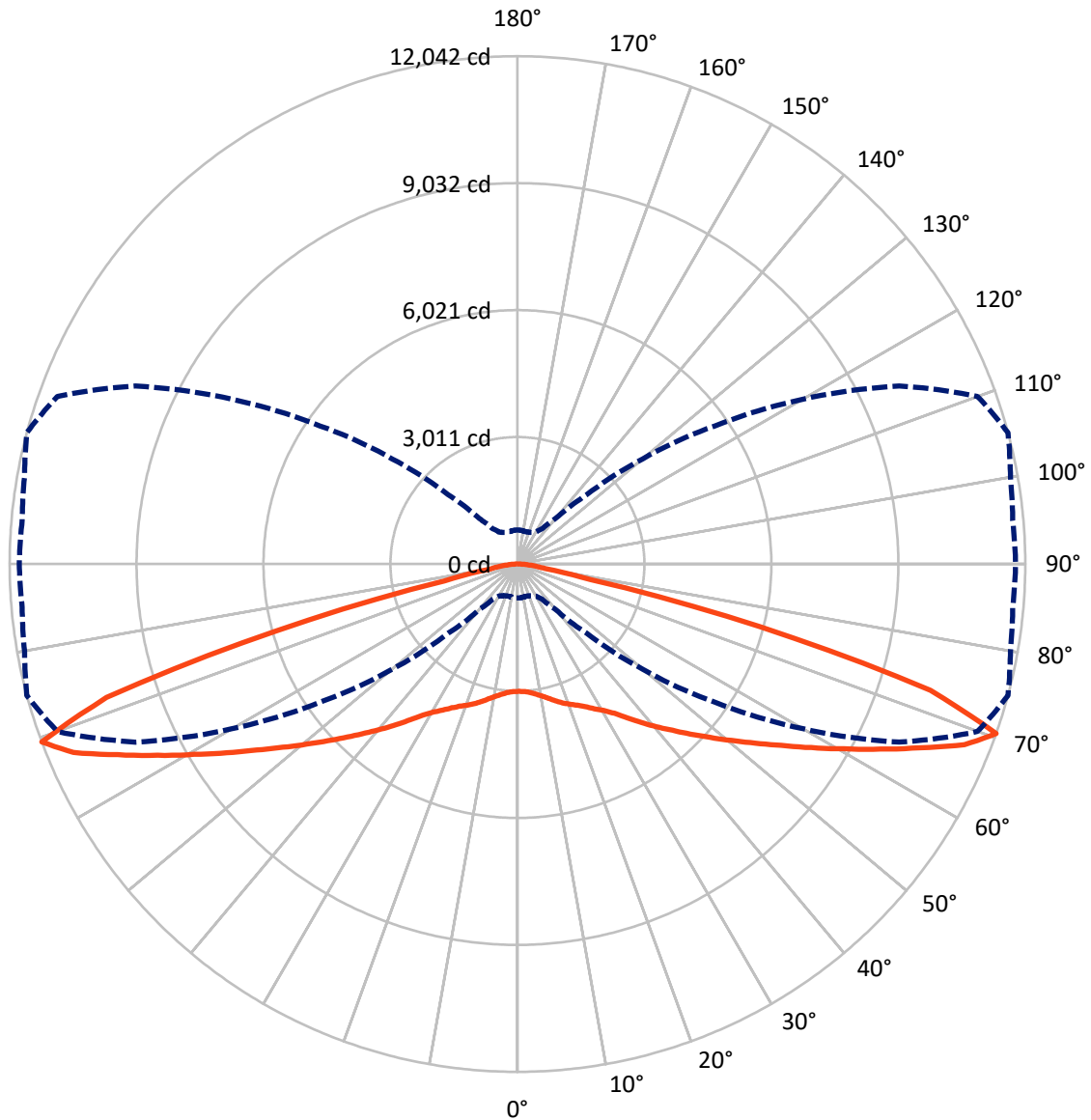


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - Full Cutoff

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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	13611.0	0.0	13611.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13611.0	0.0	13611.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27222.0	0.0	27222.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.6	1.1
10°-20°	899.8	3.3
20°-30°	1693.6	6.2
30°-40°	2999.1	11.0
40°-50°	5015.4	18.4
50°-60°	6989.0	25.7
60°-70°	6481.1	23.8
70°-80°	2582.9	9.5
80°-90°	271.5	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°	27222.0	100.0
0°-180°	27222.0	100.0



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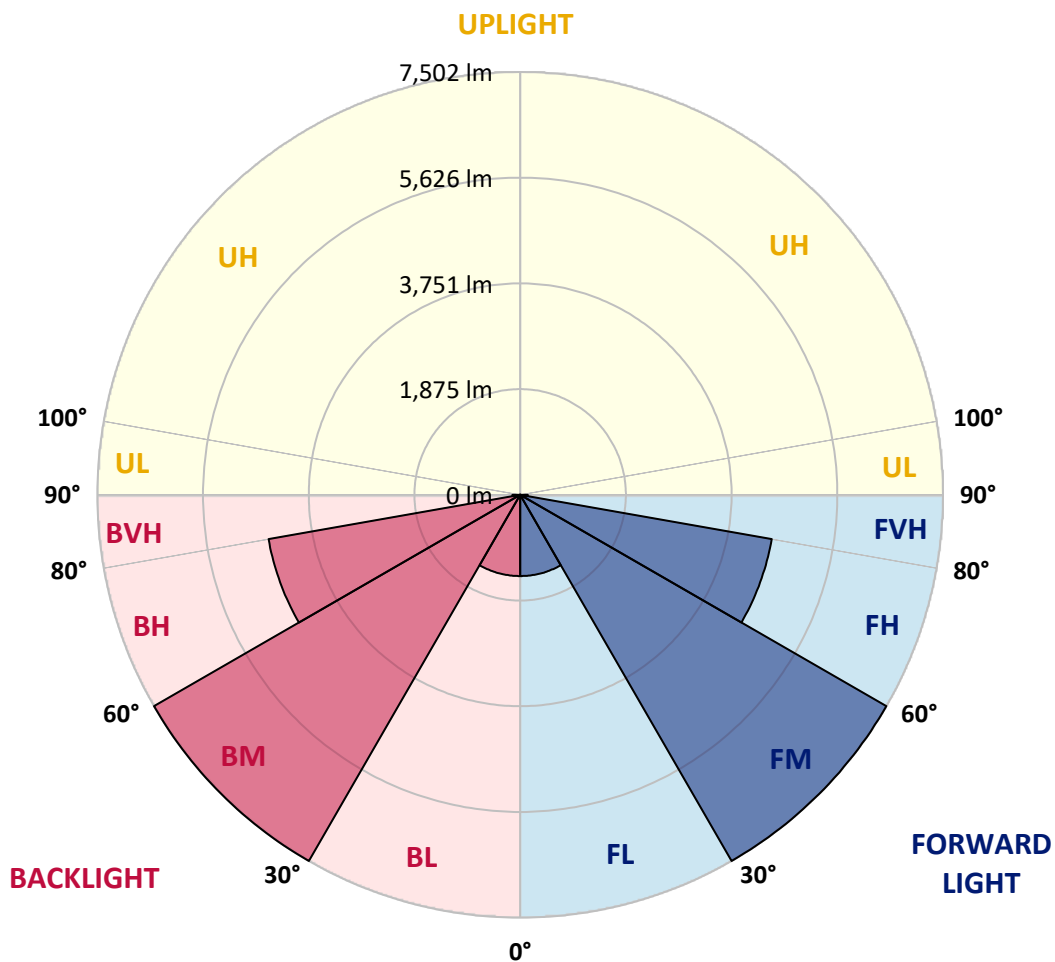
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1441.5	5.3			
FM	(30°-60°)	7501.7	27.6			
FH	(60°-80°)	4532.0	16.6			G2/5000
FVH	(80°-90°)	135.8	0.5			G2/225
BL	(0°-30°)	1441.5	5.3	B3/2500		
BM	(30°-60°)	7501.7	27.6	B4/8500		
BH	(60°-80°)	4532.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	135.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3014.4	3011.8	3014.4	3013.1	3015.7	3015.7	3018.3	3023.4	3023.4	3027.3	3026.0
5°	2984.8	2983.5	2987.4	2991.2	2995.1	3002.8	3010.5	3022.1	3031.1	3037.6	3044.0
7.5°	2926.9	2926.9	2932.1	2941.1	2950.1	2966.8	2984.8	3008.0	3031.1	3050.4	3067.2
10°	2879.3	2881.9	2888.3	2903.8	2919.2	2944.9	2969.4	3002.8	3035.0	3067.2	3092.9
12.5°	2851.0	2854.9	2866.5	2889.6	2915.3	2950.1	2987.4	3029.8	3065.9	3104.5	3130.2
15°	2860.0	2862.6	2879.3	2907.6	2941.1	2984.8	3035.0	3085.2	3127.6	3168.8	3203.5
17.5°	2910.2	2914.1	2933.4	2965.5	3000.3	3051.7	3105.8	3162.4	3215.1	3261.4	3303.9
20°	3000.3	3004.1	3028.6	3063.3	3104.5	3157.2	3211.3	3270.4	3329.6	3378.5	3426.1
22.5°	3127.6	3134.1	3157.2	3192.0	3238.3	3294.9	3359.2	3422.2	3478.9	3523.9	3566.3
25°	3294.9	3309.0	3330.9	3369.5	3418.4	3469.8	3539.3	3603.7	3657.7	3700.1	3731.0
27.5°	3531.6	3550.9	3567.6	3604.9	3652.5	3701.4	3770.9	3827.5	3879.0	3920.1	3943.3
30°	3845.5	3864.8	3881.5	3917.6	3961.3	4007.6	4073.2	4123.4	4155.6	4187.7	4186.5
32.5°	4226.3	4246.9	4253.4	4292.0	4337.0	4387.2	4446.3	4474.7	4500.4	4504.2	4481.1
35°	4652.2	4662.5	4688.2	4739.7	4791.1	4832.3	4888.9	4903.1	4903.1	4883.8	4832.3
37.5°	5119.2	5125.7	5161.7	5219.6	5272.3	5314.8	5353.4	5381.7	5367.5	5326.4	5240.2
40°	5631.3	5642.8	5694.3	5745.8	5805.0	5844.8	5886.0	5891.2	5877.0	5816.5	5699.5
42.5°	6120.2	6130.5	6181.9	6263.0	6340.2	6395.5	6434.1	6441.8	6396.8	6341.4	6196.1
45°	6540.9	6567.9	6634.8	6730.0	6841.9	6920.4	6973.2	6995.0	6955.1	6883.1	6714.6
47.5°	6874.1	6901.1	6996.3	7109.5	7248.5	7375.8	7463.3	7509.6	7499.4	7445.3	7261.3
50°	7118.5	7144.3	7247.2	7386.1	7548.2	7706.5	7855.7	7966.4	8005.0	7980.5	7812.0
52.5°	7146.8	7189.3	7310.2	7496.8	7707.8	7923.9	8136.2	8324.0	8451.4	8470.7	8345.9
55°	6751.9	6794.3	6961.6	7238.2	7552.1	7904.6	8244.3	8560.8	8811.6	8940.3	8874.7
57.5°	5820.4	5896.3	6072.6	6396.8	6858.6	7386.1	7927.8	8490.0	9000.8	9341.7	9407.3
60°	4460.5	4550.6	4728.1	5072.9	5587.5	6216.7	6939.7	7770.8	8672.7	9439.5	9897.5
62.5°	2861.3	2946.2	3132.8	3432.5	3852.0	4533.8	5309.6	6296.4	7508.4	8719.0	9810.0
65°	1470.5	1516.9	1614.6	1796.0	2122.8	2632.3	3328.3	4312.5	5698.2	7191.9	8769.2
67.5°	931.5	940.5	962.3	988.1	1071.7	1248.0	1572.2	2185.9	3325.8	4883.8	6730.0
70°	805.4	805.4	795.1	791.2	801.5	826.0	876.1	1019.0	1403.6	2318.4	3881.5
72.5°	737.2	729.5	711.5	697.3	694.7	694.7	705.0	726.9	788.7	944.3	1519.4
75°	679.3	657.4	633.0	616.3	609.8	603.4	602.1	606.0	618.8	643.3	725.6
77.5°	608.5	580.2	551.9	535.2	527.5	518.5	510.8	501.8	495.3	503.0	539.1
80°	523.6	491.5	469.6	459.3	451.6	438.7	422.0	406.6	392.4	389.8	411.7
82.5°	422.0	384.7	386.0	389.8	375.7	357.7	339.7	322.9	298.5	285.6	298.5
85°	340.9	321.6	312.6	337.1	316.5	289.5	261.2	231.6	193.0	162.1	176.3
87.5°	132.5	132.5	198.1	304.9	274.0	223.9	191.7	163.4	101.6	78.5	79.8
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°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3024.7	3027.3	3026.0	3024.7	3024.7	3023.4	3024.7	3024.7
5°	3047.9	3054.3	3054.3	3056.9	3056.9	3058.2	3059.4	3058.2
7.5°	3082.6	3094.2	3101.9	3110.9	3112.2	3113.5	3116.0	3113.5
10°	3117.3	3140.5	3157.2	3173.9	3181.7	3184.2	3186.8	3186.8
12.5°	3161.1	3193.2	3222.8	3252.4	3266.6	3274.3	3274.3	3279.4
15°	3233.1	3265.3	3300.0	3339.9	3364.4	3377.2	3381.1	3381.1
17.5°	3334.8	3363.1	3392.7	3431.3	3462.1	3478.9	3482.7	3481.4
20°	3453.1	3480.1	3496.9	3521.3	3548.3	3567.6	3572.8	3572.8
22.5°	3588.2	3603.7	3606.2	3613.9	3635.8	3661.5	3673.1	3675.7
25°	3737.5	3741.3	3731.0	3731.0	3745.2	3769.6	3781.2	3782.5
27.5°	3930.4	3911.1	3885.4	3876.4	3885.4	3913.7	3927.9	3933.0
30°	4171.0	4124.7	4065.5	4033.4	4028.2	4065.5	4091.3	4095.1
32.5°	4446.3	4379.4	4301.0	4235.4	4218.6	4241.8	4272.7	4271.4
35°	4773.1	4693.4	4598.2	4514.5	4475.9	4499.1	4542.8	4548.0
37.5°	5150.1	5045.9	4936.5	4831.0	4770.6	4777.0	4823.3	4838.7
40°	5570.8	5435.7	5298.1	5156.5	5070.3	5053.6	5110.2	5119.2
42.5°	6021.1	5847.4	5673.7	5498.8	5388.1	5362.4	5428.0	5424.1
45°	6501.0	6279.7	6076.4	5883.4	5752.2	5713.6	5767.6	5767.6
47.5°	7016.9	6744.1	6502.3	6283.6	6140.7	6085.4	6136.9	6140.7
50°	7563.7	7274.2	6989.9	6746.7	6575.6	6504.8	6571.7	6582.0
52.5°	8107.9	7826.1	7539.2	7261.3	7054.2	6968.0	7045.2	7078.6
55°	8659.8	8383.2	8109.2	7837.7	7592.0	7490.3	7572.7	7615.1
57.5°	9242.6	8986.6	8725.4	8451.4	8214.7	8056.4	8143.9	8200.5
60°	9925.8	9707.1	9435.6	9133.3	8894.0	8733.2	8783.3	8833.5
62.5°	10466.2	10551.1	10320.8	9970.8	9663.3	9457.5	9506.4	9559.1
65°	10205.0	11076.0	11280.6	10926.7	10500.9	10180.5	10160.0	10187.0
67.5°	8529.9	10221.7	11455.5	11792.6	11436.2	10991.1	10908.7	10948.6
70°	5705.9	7813.3	9990.1	11611.2	12042.2	11869.8	11788.7	11813.2
72.5°	2740.4	4550.6	6777.6	8932.6	10244.9	10847.0	11040.0	11133.9
75°	1002.2	1806.3	3266.6	4922.4	5942.6	6879.2	7490.3	7739.9
77.5°	604.7	729.5	1043.4	1570.9	1779.3	1991.6	1909.3	1950.4
80°	447.7	505.6	572.5	643.3	666.4	666.4	640.7	620.1
82.5°	313.9	351.2	383.4	422.0	432.3	413.0	339.7	270.2
85°	202.0	218.7	232.9	257.3	250.9	239.3	160.8	142.8
87.5°	92.6	105.5	110.6	122.2	117.1	111.9	79.8	66.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)