

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: P269689

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-5WQ-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53916.7 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 558  
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

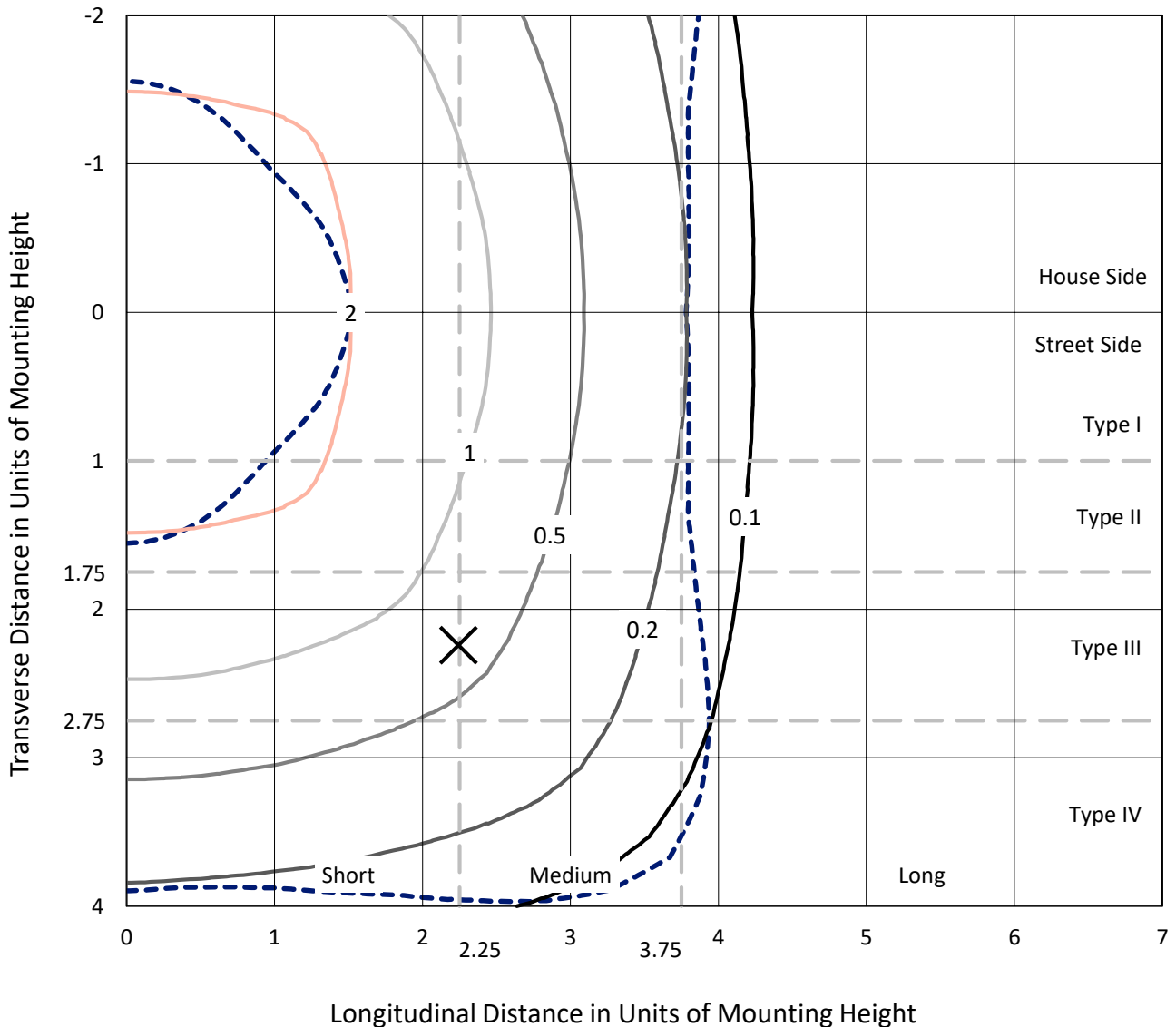


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### Iso-Footcandle Lines of Horizontal Illumination

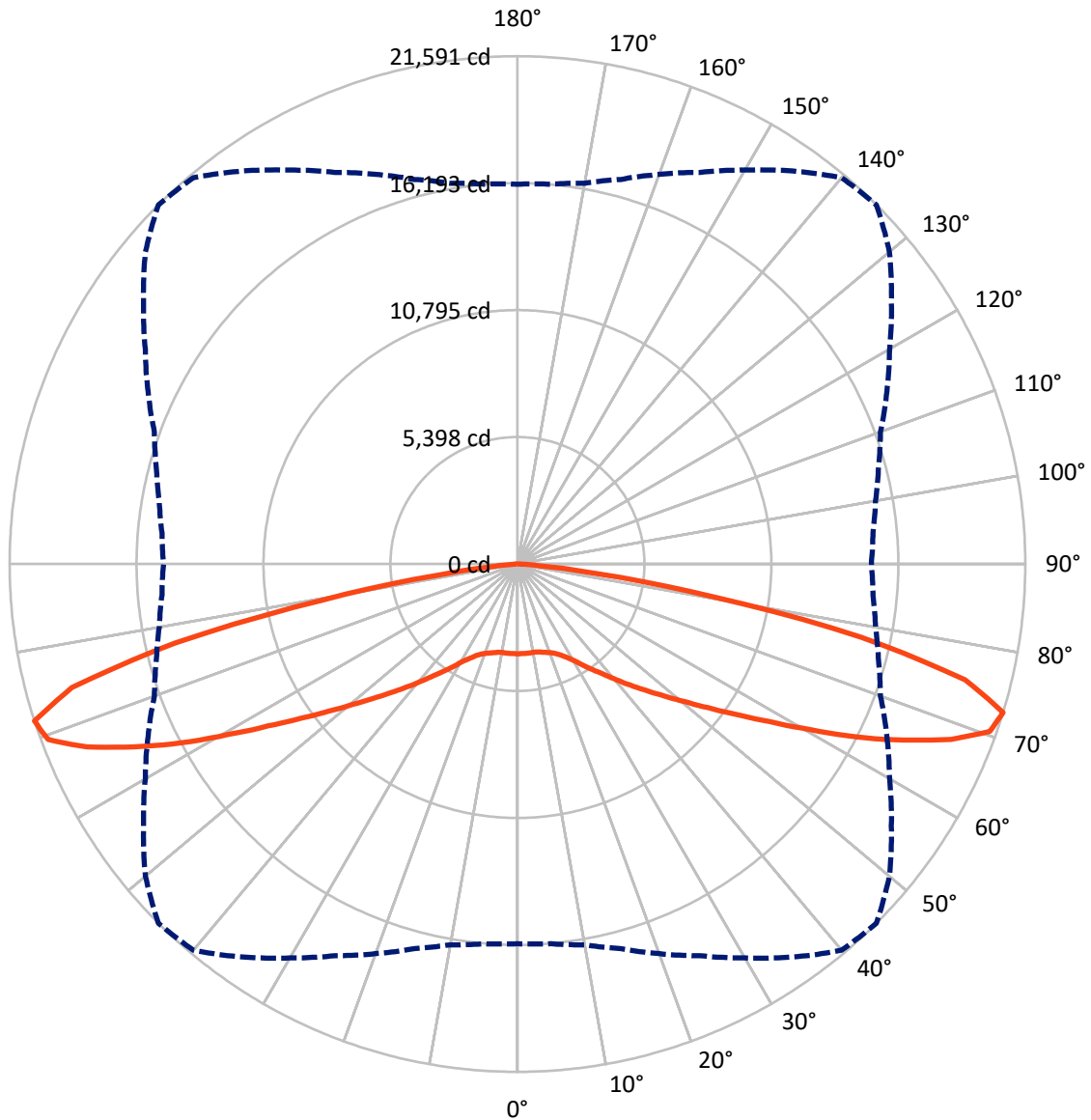
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26958.4	0.0	26958.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26958.4	0.0	26958.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53916.7	0.0	53916.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.6	0.7
10°-20°	1107.3	2.1
20°-30°	2023.5	3.8
30°-40°	3488.8	6.5
40°-50°	5964.1	11.1
50°-60°	9667.1	17.9
60°-70°	16037.3	29.7
70°-80°	14125.1	26.2
80°-90°	1138.9	2.1
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°	53916.7	100.0
0°-180°	53916.7	100.0



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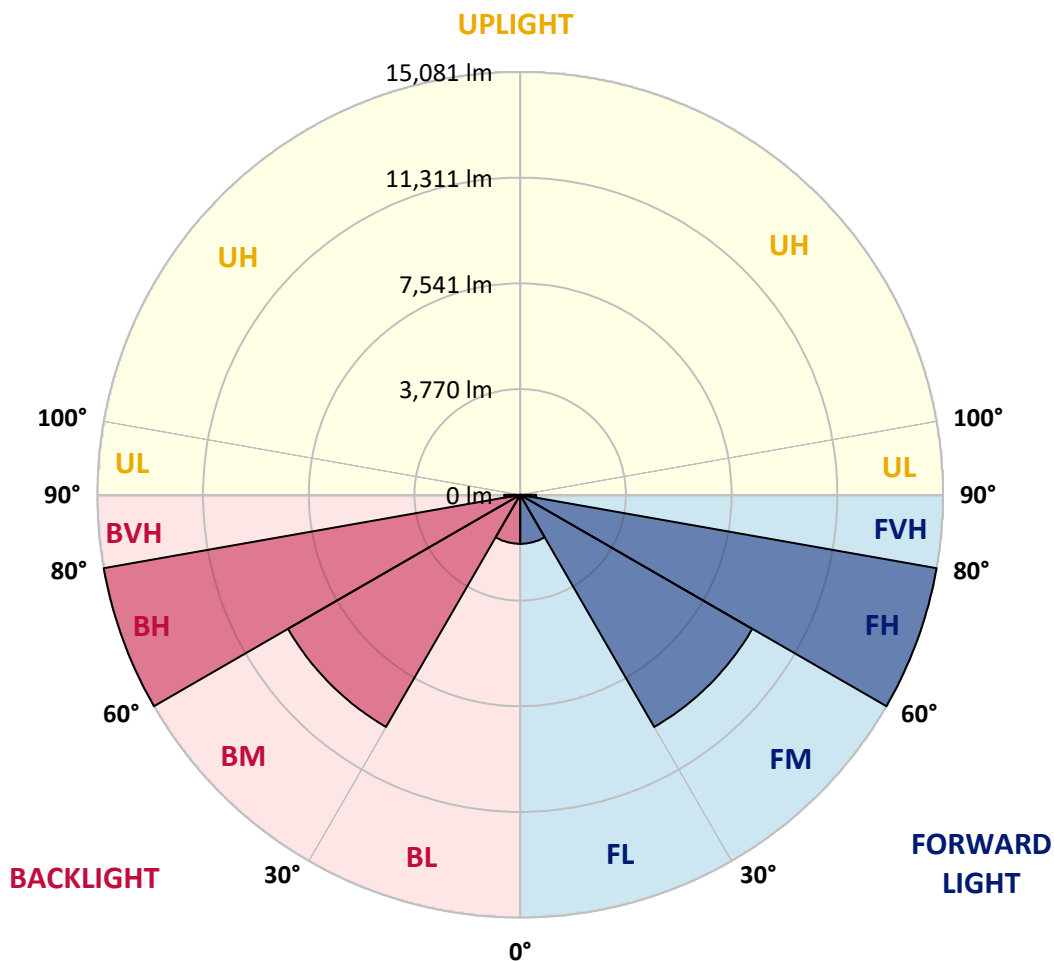
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1747.7	3.2			
FM	(30°-60°)	9560.0	17.7			
FH	(60°-80°)	15081.2	28.0			G5
FVH	(80°-90°)	569.4	1.1			G4/750
BL	(0°-30°)	1747.7	3.2	B3/2500		
BM	(30°-60°)	9560.0	17.7	B5		
BH	(60°-80°)	15081.2	28.0	B5		G5
BVH	(80°-90°)	569.4	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	3818.2	3820.6	3823.0	3820.6	3820.6	3818.2	3815.7	3818.2	3815.7	3810.7	3813.1
5°	3830.6	3835.5	3835.5	3830.6	3833.0	3830.6	3825.5	3828.0	3823.0	3815.7	3815.7
7.5°	3845.4	3847.8	3847.8	3842.9	3845.4	3840.4	3835.5	3833.0	3828.0	3818.2	3810.7
10°	3867.7	3870.1	3867.7	3862.6	3862.6	3855.3	3842.9	3837.9	3828.0	3813.1	3805.8
12.5°	3892.4	3894.8	3892.4	3887.3	3884.9	3872.6	3862.6	3855.3	3847.8	3835.5	3823.0
15°	3926.9	3931.9	3926.9	3917.1	3909.7	3899.7	3894.8	3897.2	3899.7	3889.8	3877.4
17.5°	3991.2	3993.8	3986.3	3964.0	3954.2	3944.3	3944.3	3949.2	3956.7	3951.6	3939.2
20°	4109.9	4102.5	4085.2	4058.1	4045.6	4028.3	4025.8	4028.3	4028.3	4025.8	4016.0
22.5°	4258.3	4253.4	4231.0	4196.5	4179.2	4169.4	4154.4	4142.1	4139.6	4132.3	4122.3
25°	4436.4	4433.9	4406.6	4377.0	4364.7	4352.3	4339.9	4322.6	4307.8	4290.5	4280.6
27.5°	4663.9	4653.9	4614.5	4599.6	4582.3	4574.9	4557.6	4537.8	4525.4	4503.2	4490.7
30°	4913.5	4913.5	4881.5	4876.4	4876.4	4859.2	4839.4	4804.9	4782.5	4760.3	4752.9
32.5°	5163.4	5165.9	5133.8	5143.6	5151.1	5163.4	5168.4	5156.0	5141.1	5138.7	5123.8
35°	5524.4	5514.5	5482.4	5489.8	5487.3	5485.0	5485.0	5512.1	5517.0	5521.9	5492.2
37.5°	5972.0	5972.0	5940.0	5940.0	5925.0	5910.2	5890.5	5907.8	5934.9	5942.4	5922.5
40°	6484.0	6501.3	6461.7	6459.3	6464.2	6417.1	6394.9	6422.2	6439.4	6469.1	6446.9
42.5°	7087.3	7075.0	7035.3	7030.5	7003.2	6988.4	6968.6	6990.9	7018.1	7037.9	7045.2
45°	7666.0	7656.1	7611.6	7611.6	7584.4	7572.1	7581.9	7619.0	7631.3	7658.5	7685.8
47.5°	8237.2	8224.8	8195.1	8207.5	8210.0	8232.2	8264.3	8299.0	8333.7	8370.8	8383.2
50°	8820.7	8823.2	8791.2	8820.7	8857.8	8919.7	9006.2	9063.1	9134.9	9181.8	9196.7
52.5°	9352.4	9362.3	9397.0	9466.2	9540.4	9661.6	9809.9	9948.4	10067.1	10146.3	10141.3
55°	9990.5	10005.3	10089.5	10208.1	10329.3	10512.2	10732.3	10977.2	11174.9	11288.7	11217.0
57.5°	10806.5	10838.7	10932.6	11093.3	11273.9	11511.3	11813.0	12181.5	12488.1	12641.4	12525.2
60°	11926.7	11946.5	12060.3	12238.2	12456.0	12750.3	13153.3	13647.9	14080.7	14283.4	14149.8
62.5°	13403.0	13440.1	13531.7	13712.2	13934.7	14268.6	14760.7	15379.0	15918.0	16199.9	15898.3
65°	15166.3	15284.9	15361.6	15544.6	15752.3	16105.9	16620.4	17283.0	17861.7	18047.2	17698.4
67.5°	16912.1	17016.0	17149.5	17359.7	17569.9	17968.0	18445.3	19088.3	19723.7	19891.9	19350.4
70°	17676.2	17735.5	17943.3	18230.2	18633.3	19103.0	19654.6	20376.7	21163.0	21301.5	20613.9
72.5°	16145.4	16204.9	16437.2	16924.4	17626.7	18373.6	19335.5	20396.3	21434.9	21590.9	20643.7
75°	12211.1	12114.7	12458.5	13103.8	14051.0	15092.1	16437.2	17958.1	19459.2	19654.6	18524.4
77.5°	6310.9	6298.5	6558.0	7359.4	8489.4	9673.9	11155.2	12873.9	14342.8	14936.3	14016.3
80°	1778.0	1797.8	1921.5	2319.6	2979.9	3835.5	4992.8	6602.6	7804.5	8417.7	7903.4
82.5°	697.4	751.7	798.8	873.0	959.5	1085.6	1449.1	2156.3	2893.4	3457.0	2831.5
85°	249.8	267.1	378.4	447.5	455.0	479.8	546.4	637.9	769.0	917.4	754.2
87.5°	94.0	103.8	121.2	200.3	197.8	180.5	220.1	230.0	173.2	158.3	195.3
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°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	3808.3	3810.7	3810.7	3813.1	3815.7	3815.7	3820.6	3820.6
5°	3810.7	3810.7	3805.8	3808.3	3805.8	3805.8	3808.3	3808.3
7.5°	3805.8	3803.3	3798.4	3795.9	3790.9	3790.9	3790.9	3790.9
10°	3798.4	3795.9	3790.9	3788.4	3785.9	3785.9	3785.9	3785.9
12.5°	3818.2	3810.7	3805.8	3803.3	3803.3	3803.3	3803.3	3803.3
15°	3870.1	3852.8	3840.4	3840.4	3842.9	3847.8	3847.8	3852.8
17.5°	3934.3	3914.5	3902.1	3892.4	3897.2	3904.8	3909.7	3914.5
20°	4011.0	4001.1	3983.9	3973.9	3973.9	3983.9	3988.7	3991.2
22.5°	4117.3	4109.9	4102.5	4090.2	4090.2	4095.2	4105.0	4105.0
25°	4275.7	4270.7	4265.7	4255.8	4253.4	4253.4	4258.3	4263.3
27.5°	4473.5	4476.0	4471.0	4468.4	4461.2	4458.6	4466.1	4463.6
30°	4738.1	4750.3	4762.8	4752.9	4740.5	4733.1	4725.8	4715.8
32.5°	5096.7	5081.8	5071.9	5054.7	5032.3	5012.5	4997.7	4980.5
35°	5435.5	5410.8	5400.8	5415.6	5413.1	5400.8	5383.5	5368.6
37.5°	5850.8	5845.9	5850.8	5878.1	5873.1	5885.4	5850.8	5848.3
40°	6375.1	6380.0	6414.6	6446.9	6464.2	6481.5	6461.7	6441.8
42.5°	6983.5	6981.0	6993.3	7037.9	7067.5	7087.3	7045.2	7040.3
45°	7626.4	7609.1	7619.0	7656.1	7685.8	7707.9	7661.0	7661.0
47.5°	8333.7	8303.9	8271.9	8313.9	8331.2	8346.1	8309.0	8296.6
50°	9122.5	9060.7	8991.5	9008.7	9008.7	9003.8	8956.8	8954.3
52.5°	10027.6	9913.9	9787.8	9740.7	9713.6	9683.8	9602.3	9562.6
55°	11068.6	10898.0	10700.3	10579.0	10514.8	10433.2	10297.1	10260.0
57.5°	12285.3	12018.2	11677.0	11528.6	11385.2	11251.6	11100.7	11058.8
60°	13727.0	13333.8	12881.2	12606.9	12451.0	12322.4	12166.6	12159.2
62.5°	15334.3	14713.7	14201.8	13954.5	13840.7	13727.0	13578.6	13598.5
65°	16969.0	16321.0	15841.3	15641.0	15534.7	15440.7	15292.3	15314.7
67.5°	18581.4	17985.3	17458.6	17253.3	17134.6	17016.0	16882.3	16904.7
70°	19738.5	18999.2	18405.7	17950.7	17666.2	17344.8	17137.1	17085.3
72.5°	19407.3	18267.3	17325.0	16422.5	15893.3	15463.0	15171.1	15045.1
75°	16795.9	15237.9	14026.2	12918.3	12295.2	11788.3	11419.9	11189.8
77.5°	12473.2	10722.4	9290.6	8014.7	7005.7	6328.1	5850.8	5541.7
80°	6827.7	5193.0	3795.9	2668.2	1961.0	1629.6	1439.3	1347.7
82.5°	2126.6	1372.4	1011.4	873.0	811.1	776.5	719.6	628.2
85°	677.6	593.5	551.5	526.8	502.1	437.7	301.7	274.5
87.5°	262.1	269.5	267.1	252.2	257.2	185.5	148.4	131.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)