

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: P191623

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34284 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - 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

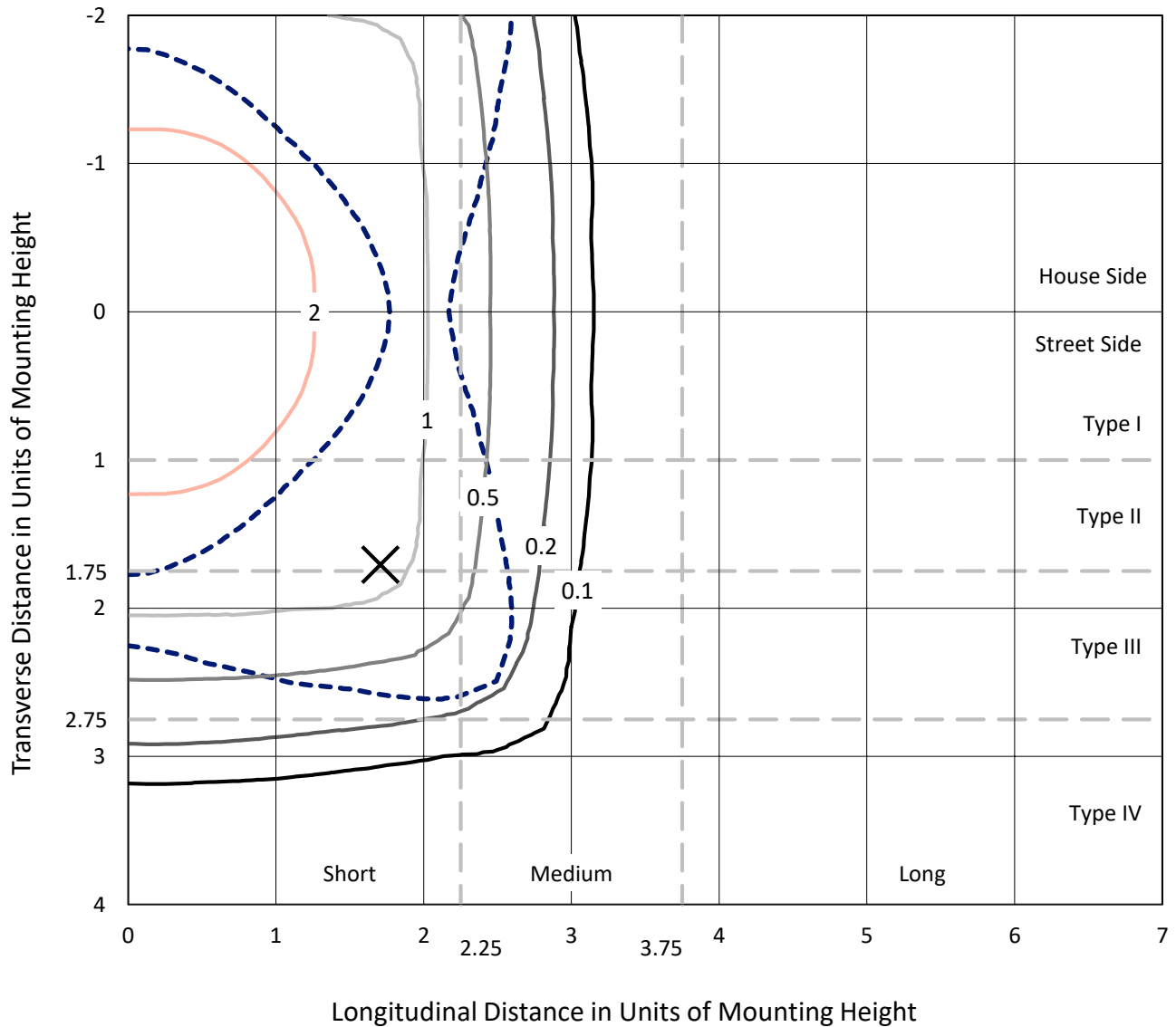


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

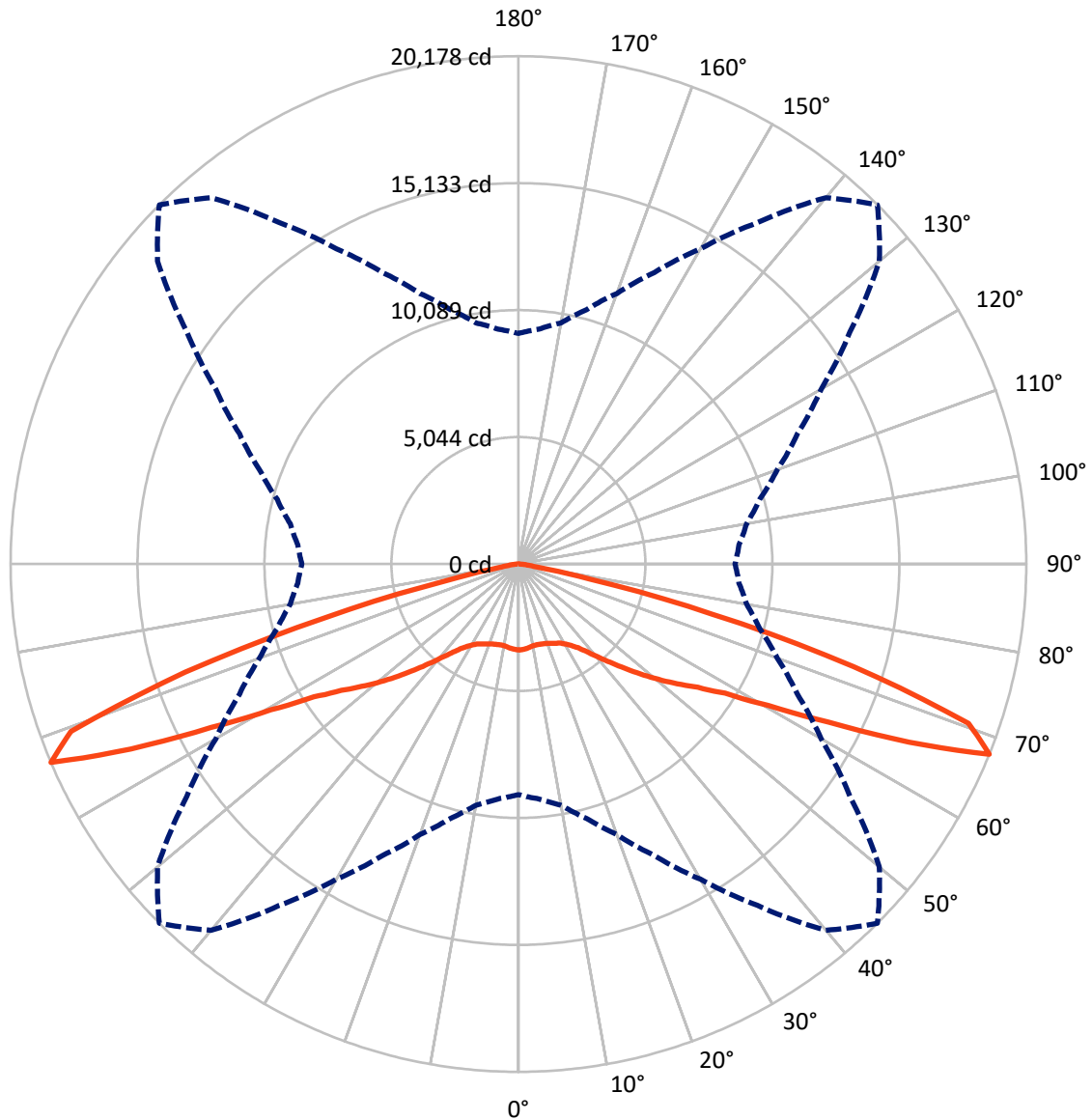


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17142.0	0.0	17142.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17142.0	0.0	17142.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34284.0	0.0	34284.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	0.9
10°-20°	927.9	2.7
20°-30°	1577.4	4.6
30°-40°	2578.6	7.5
40°-50°	4603.3	13.4
50°-60°	7761.4	22.6
60°-70°	12044.5	35.1
70°-80°	4231.9	12.3
80°-90°	239.2	0.7
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°	34284.0	100.0
0°-180°	34284.0	100.0



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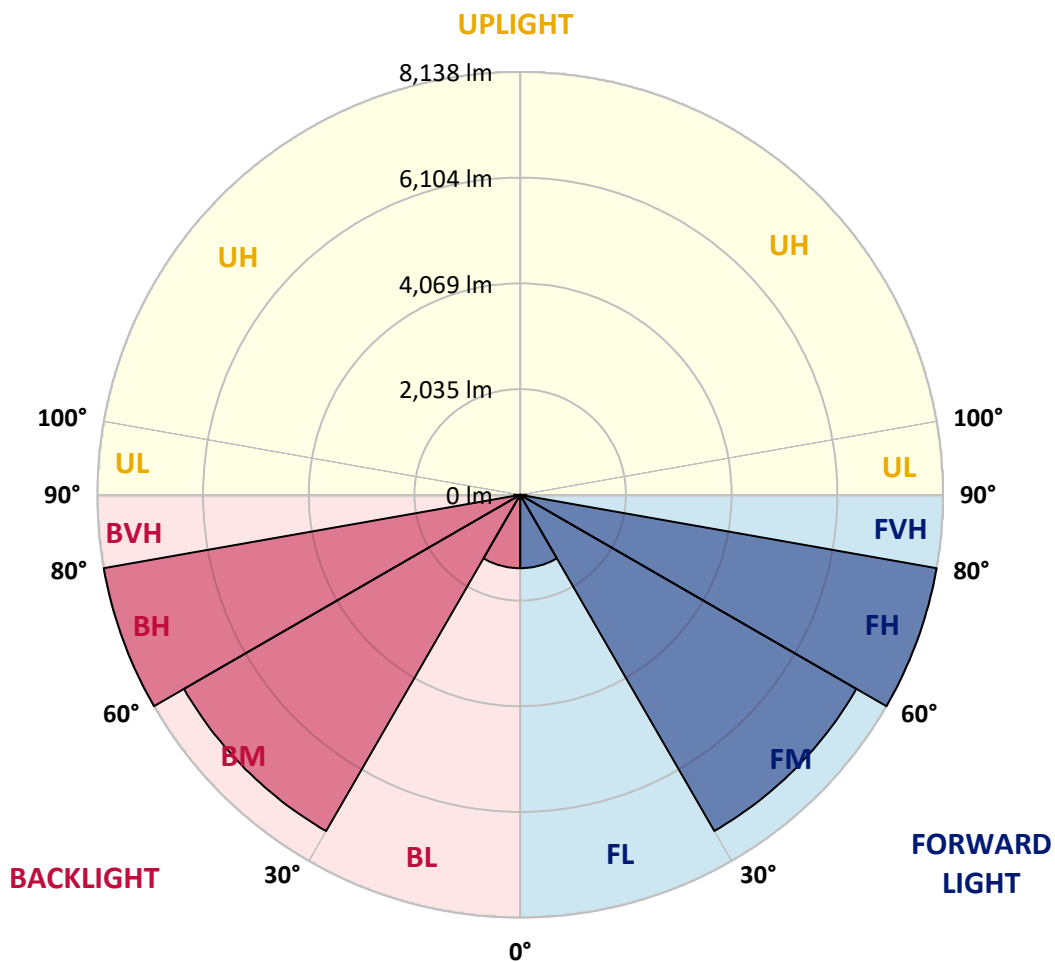
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.6	4.1			
FM	(30°-60°)	7471.7	21.8			
FH	(60°-80°)	8138.2	23.7			G4/12000
FVH	(80°-90°)	119.6	0.3			G2/225
BL	(0°-30°)	1412.6	4.1	B3/2500		
BM	(30°-60°)	7471.7	21.8	B4/8500		
BH	(60°-80°)	8138.2	23.7	B5		G4/12000
BVH	(80°-90°)	119.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5
2.5°	3403.9	3407.1	3407.1	3407.1	3405.5	3405.5	3402.4	3405.5	3403.9	3399.2	3400.8
5°	3375.6	3378.7	3378.7	3377.1	3381.9	3380.3	3375.6	3378.7	3377.1	3374.0	3375.6
7.5°	3334.6	3339.3	3339.3	3337.7	3342.4	3340.9	3337.7	3339.3	3339.3	3334.6	3334.6
10°	3288.8	3292.0	3292.0	3290.4	3298.3	3298.3	3296.7	3301.5	3303.0	3298.3	3295.1
12.5°	3246.3	3251.0	3251.0	3257.3	3265.2	3268.3	3276.2	3282.5	3288.8	3287.3	3281.0
15°	3221.0	3224.2	3230.5	3238.4	3251.0	3262.0	3274.6	3288.8	3301.5	3304.6	3295.1
17.5°	3205.3	3210.0	3219.5	3230.5	3247.8	3266.8	3285.7	3304.6	3321.9	3328.3	3317.2
20°	3200.5	3203.7	3213.2	3232.1	3255.7	3284.1	3310.9	3333.0	3356.6	3364.5	3356.6
22.5°	3210.0	3216.3	3227.4	3249.4	3281.0	3317.2	3348.8	3378.7	3408.7	3422.9	3411.8
25°	3252.6	3258.9	3273.1	3301.5	3336.1	3374.0	3410.2	3444.9	3471.7	3485.9	3478.0
27.5°	3331.4	3339.3	3356.6	3385.0	3422.9	3463.8	3503.3	3531.6	3553.7	3558.4	3549.0
30°	3449.7	3467.0	3487.5	3519.0	3563.2	3597.9	3637.3	3662.5	3689.3	3689.3	3681.4
32.5°	3634.1	3651.5	3673.5	3703.5	3738.2	3776.0	3810.7	3832.8	3861.2	3862.7	3843.8
35°	3910.0	3917.9	3936.8	3955.8	3987.3	4020.4	4050.3	4064.5	4088.2	4089.8	4072.4
37.5°	4274.2	4275.8	4288.4	4294.7	4323.1	4359.4	4387.7	4397.2	4419.3	4416.1	4398.8
40°	4698.3	4706.2	4711.0	4720.4	4750.4	4785.1	4815.0	4819.7	4843.4	4838.7	4816.6
42.5°	5188.7	5191.8	5218.6	5232.8	5261.2	5278.5	5316.4	5321.1	5349.5	5336.9	5311.6
45°	5738.9	5767.3	5792.5	5820.9	5850.9	5871.3	5901.3	5895.0	5913.9	5895.0	5880.8
47.5°	6317.5	6338.0	6394.8	6438.9	6487.8	6505.2	6547.7	6528.8	6547.7	6520.9	6516.2
50°	6954.5	6990.8	7039.6	7090.1	7142.1	7170.5	7225.7	7202.0	7227.2	7202.0	7187.8
52.5°	7582.0	7591.4	7698.7	7772.8	7845.3	7878.4	7911.5	7900.5	7902.0	7900.5	7886.3
55°	8178.0	8200.0	8307.2	8408.1	8534.3	8627.3	8684.0	8677.7	8663.6	8649.4	8625.7
57.5°	8849.6	8871.7	8994.6	9119.2	9262.7	9395.1	9510.2	9628.4	9674.2	9686.8	9634.8
60°	9757.7	9756.2	9920.1	10071.5	10276.4	10473.5	10725.8	10982.8	11277.6	11414.8	11233.4
62.5°	10681.6	10719.5	10956.0	11224.0	11646.5	12058.0	12523.1	12980.3	13447.0	13827.0	13423.4
65°	10571.3	10716.3	11067.9	11674.9	12455.3	13382.4	14385.1	15446.2	16404.8	17063.8	16324.4
67.5°	9161.8	9368.3	9726.2	10464.1	11440.0	12777.0	14460.8	16559.3	18998.3	20177.6	18716.1
70°	6640.7	6874.1	7249.3	7969.8	8936.3	10207.1	12036.0	14555.4	17784.3	18973.1	17363.4
72.5°	3304.6	3430.7	3662.5	4121.3	4852.9	5884.0	7542.6	9964.3	12821.1	13912.1	12441.1
75°	1122.6	1180.9	1220.3	1370.1	1601.9	2007.0	2831.6	4356.2	6645.5	7966.7	6550.9
77.5°	648.0	649.6	676.4	703.2	742.6	786.7	897.1	1177.7	2037.0	2893.1	2107.9
80°	419.4	417.8	439.9	460.4	487.2	509.2	515.6	545.5	629.1	745.7	666.9
82.5°	217.6	244.4	293.3	320.1	370.5	380.0	367.4	356.3	376.8	391.0	400.5
85°	119.8	104.1	156.1	201.8	223.9	227.0	227.0	214.4	222.3	217.6	236.5
87.5°	55.2	50.5	61.5	99.3	105.6	89.9	94.6	83.6	59.9	58.3	66.2
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°	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5	3416.5
2.5°	3400.8	3402.4	3402.4	3407.1	3408.7	3411.8	3415.0	3416.5
5°	3374.0	3378.7	3375.6	3380.3	3380.3	3383.4	3383.4	3385.0
7.5°	3334.6	3339.3	3339.3	3339.3	3337.7	3342.4	3342.4	3342.4
10°	3293.6	3296.7	3295.1	3292.0	3288.8	3293.6	3292.0	3290.4
12.5°	3281.0	3273.1	3266.8	3263.6	3257.3	3258.9	3254.2	3254.2
15°	3288.8	3274.6	3263.6	3258.9	3252.6	3249.4	3246.3	3247.8
17.5°	3309.3	3292.0	3277.8	3269.9	3262.0	3257.3	3251.0	3252.6
20°	3345.6	3325.1	3304.6	3288.8	3274.6	3266.8	3262.0	3260.5
22.5°	3399.2	3369.2	3339.3	3315.6	3296.7	3285.7	3281.0	3277.8
25°	3460.7	3427.6	3392.9	3366.1	3347.2	3333.0	3323.5	3323.5
27.5°	3537.9	3511.1	3479.6	3448.1	3430.7	3416.5	3410.2	3407.1
30°	3667.2	3642.0	3616.8	3586.8	3564.7	3550.6	3539.5	3530.1
32.5°	3832.8	3812.3	3791.8	3769.7	3749.2	3730.3	3713.0	3705.1
35°	4066.1	4050.3	4036.2	4010.9	4003.0	3992.0	3982.6	3974.7
37.5°	4387.7	4381.4	4381.4	4354.6	4348.3	4343.6	4334.1	4335.7
40°	4810.3	4816.6	4808.7	4799.2	4794.5	4781.9	4781.9	4792.9
42.5°	5310.1	5314.8	5332.1	5316.4	5333.7	5318.0	5308.5	5316.4
45°	5890.3	5907.6	5942.3	5926.5	5937.6	5910.8	5877.7	5879.2
47.5°	6541.4	6557.2	6571.4	6560.3	6561.9	6517.8	6473.6	6462.6
50°	7217.8	7224.1	7232.0	7216.2	7219.4	7170.5	7120.0	7121.6
52.5°	7886.3	7916.2	7947.8	7905.2	7895.7	7840.6	7769.6	7741.2
55°	8650.9	8693.5	8657.2	8583.1	8509.0	8434.9	8341.9	8326.2
57.5°	9593.8	9521.2	9407.7	9267.4	9164.9	9060.9	8966.3	8926.8
60°	10905.5	10632.8	10427.8	10219.7	10088.8	9961.1	9836.6	9817.6
62.5°	12759.6	12288.2	11879.9	11449.4	11097.9	10823.5	10604.4	10542.9
65°	15083.6	13968.9	13002.4	12100.6	11317.0	10725.8	10353.7	10189.7
67.5°	16083.1	13882.2	12225.1	10944.9	9920.1	9204.3	8802.3	8602.1
70°	14132.9	11512.5	9710.4	8428.6	7495.3	6732.2	6368.0	6153.6
72.5°	9723.0	7323.4	5790.9	4726.7	3981.0	3342.4	3090.2	3071.3
75°	4365.7	2891.5	1992.9	1535.6	1292.8	1124.1	1072.1	1032.7
77.5°	1221.9	903.4	805.7	753.6	703.2	644.8	622.8	627.5
80°	594.4	561.3	539.2	506.1	460.4	411.5	389.4	398.9
82.5°	394.2	389.4	403.6	380.0	313.7	266.4	223.9	205.0
85°	239.6	242.8	247.5	249.1	211.3	148.2	100.9	113.5
87.5°	94.6	108.8	118.2	123.0	115.1	70.9	56.8	58.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)