

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: P193393

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25041 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

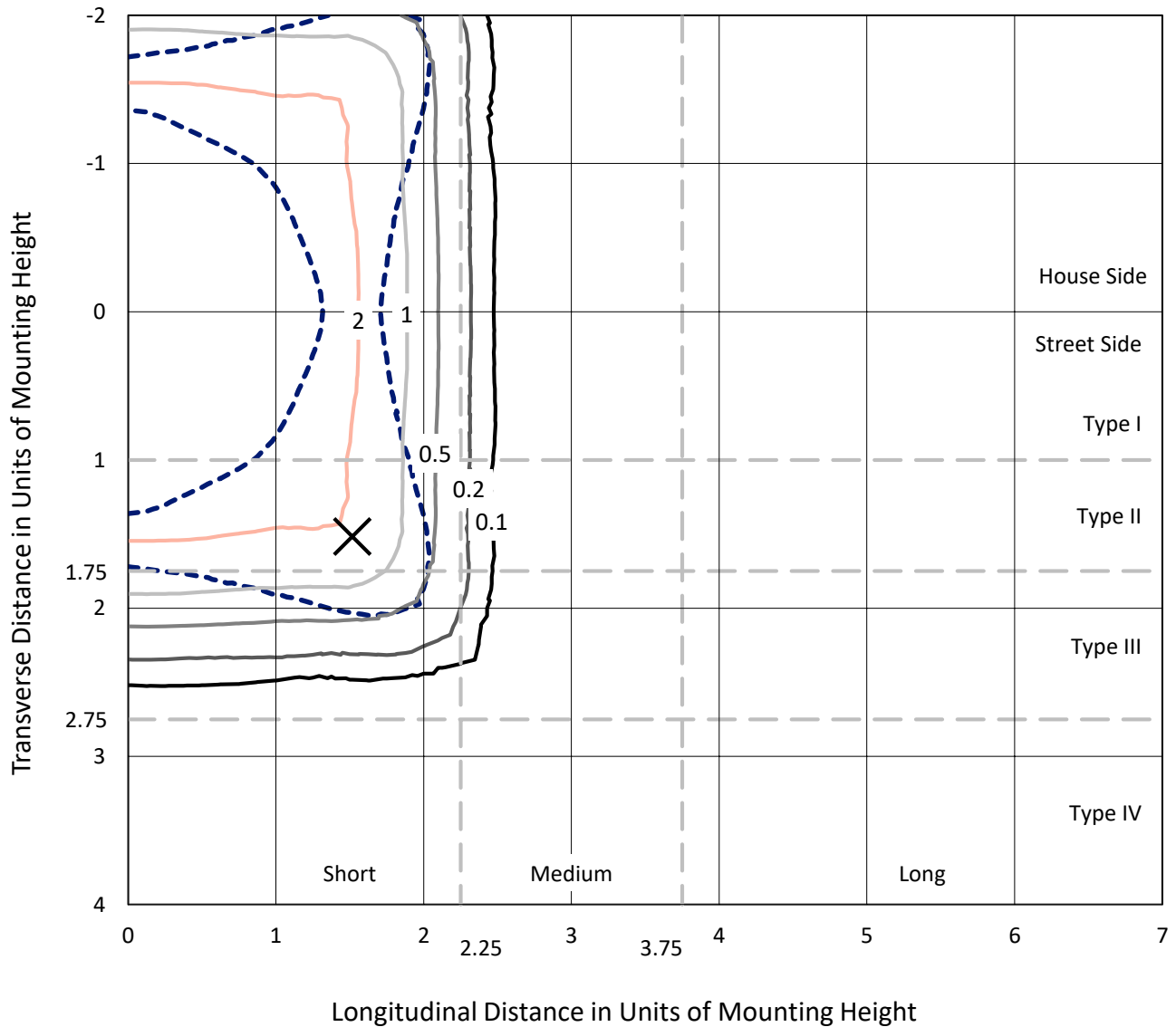
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

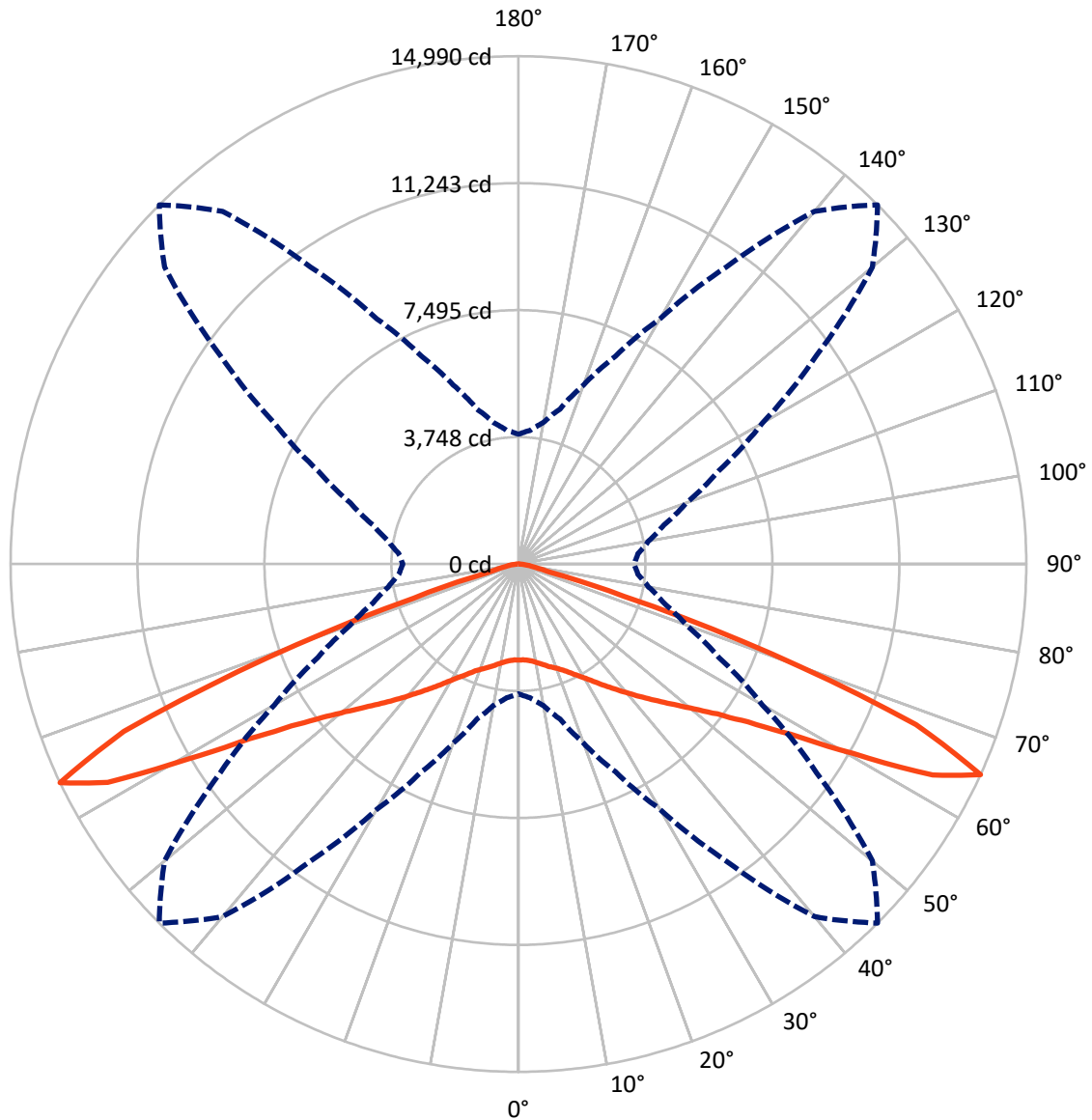
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12520.5	0.0	12520.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12520.5	0.0	12520.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25041.0	0.0	25041.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.2	1.1
10°-20°	885.7	3.5
20°-30°	1656.1	6.6
30°-40°	2801.0	11.2
40°-50°	4579.9	18.3
50°-60°	7282.7	29.1
60°-70°	6583.1	26.3
70°-80°	833.1	3.3
80°-90°	143.3	0.6
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°	25041.0	100.0
0°-180°	25041.0	100.0



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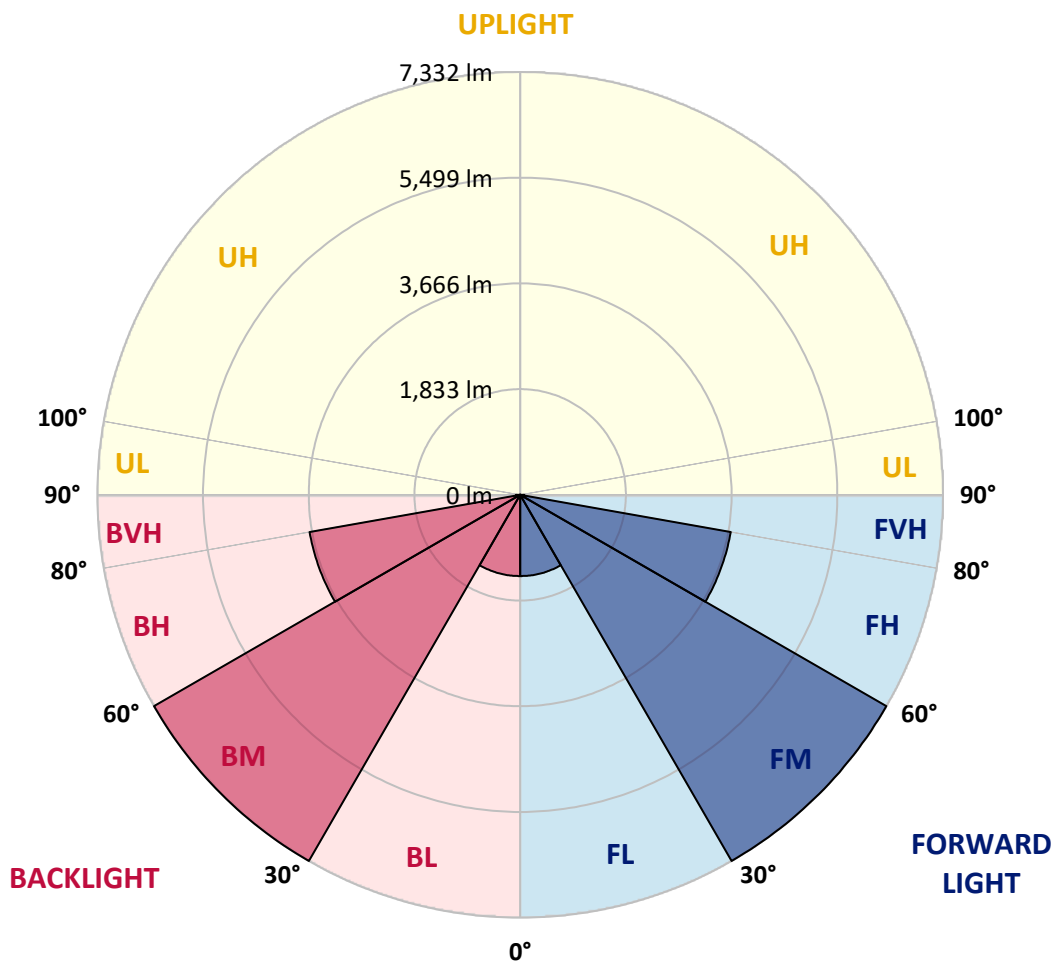
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.0	5.6			
FM	(30°-60°)	7331.7	29.3			
FH	(60°-80°)	3708.1	14.8			G2/5000
FVH	(80°-90°)	71.7	0.3			G1/100
BL	(0°-30°)	1409.0	5.6	B3/2500		
BM	(30°-60°)	7331.7	29.3	B4/8500		
BH	(60°-80°)	3708.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	71.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	2835.7	2838.1	2840.4	2838.1	2840.4	2836.9	2834.6	2838.1	2834.6	2831.1	2833.4
5°	2860.4	2861.5	2861.5	2858.0	2861.5	2859.2	2855.7	2860.4	2856.9	2853.3	2855.7
7.5°	2901.4	2906.1	2902.6	2899.1	2901.4	2899.1	2896.7	2897.9	2896.7	2893.2	2894.4
10°	2956.5	2960.1	2957.7	2956.5	2958.9	2957.7	2955.4	2954.2	2955.4	2951.9	2951.9
12.5°	3023.4	3022.2	3021.0	3022.2	3025.7	3025.7	3024.6	3025.7	3028.1	3029.3	3026.9
15°	3089.1	3091.4	3091.4	3091.4	3098.4	3104.3	3107.8	3110.2	3114.9	3116.0	3111.3
17.5°	3171.2	3171.2	3170.0	3171.2	3178.2	3187.6	3191.1	3195.8	3200.5	3204.0	3198.1
20°	3262.6	3265.0	3265.0	3267.3	3276.7	3287.3	3287.3	3289.6	3287.3	3289.6	3286.1
22.5°	3374.0	3381.1	3381.1	3382.3	3391.6	3404.5	3401.0	3404.5	3398.7	3403.4	3398.7
25°	3519.5	3530.0	3527.7	3527.7	3534.7	3542.9	3544.1	3551.1	3550.0	3555.8	3552.3
27.5°	3683.7	3700.1	3704.8	3703.6	3708.3	3716.5	3718.8	3727.1	3722.4	3727.1	3724.7
30°	3880.7	3887.7	3897.1	3900.6	3906.5	3914.7	3914.7	3915.9	3910.0	3917.0	3920.6
32.5°	4084.7	4097.6	4107.0	4128.1	4138.7	4144.6	4143.4	4145.7	4139.9	4149.2	4156.3
35°	4354.5	4363.9	4379.1	4395.5	4409.6	4408.4	4404.9	4406.1	4406.1	4414.3	4421.3
37.5°	4679.3	4681.7	4701.6	4725.1	4732.1	4725.1	4704.0	4699.3	4688.7	4699.3	4711.0
40°	5023.0	5031.2	5071.0	5086.3	5089.8	5076.9	5046.4	5028.8	5005.4	5018.3	5034.7
42.5°	5383.0	5399.4	5435.8	5462.7	5474.5	5466.3	5424.0	5397.1	5366.6	5373.6	5390.0
45°	5781.7	5801.7	5853.3	5879.1	5901.4	5888.5	5847.4	5806.4	5758.3	5761.8	5787.6
47.5°	6227.4	6247.3	6314.2	6357.6	6369.3	6366.9	6321.2	6264.9	6199.2	6196.9	6219.2
50°	6727.0	6746.9	6830.2	6897.0	6931.0	6927.5	6873.6	6793.8	6714.1	6715.3	6743.4
52.5°	7214.9	7239.5	7326.3	7441.2	7508.0	7556.1	7523.3	7448.2	7350.9	7353.2	7379.0
55°	7672.2	7713.3	7813.0	7968.9	8093.3	8228.1	8266.8	8264.5	8205.8	8222.3	8248.1
57.5°	7893.9	7954.9	8108.5	8354.8	8608.1	8882.5	9114.7	9288.3	9362.2	9473.6	9447.8
60°	7474.0	7571.4	7797.7	8160.1	8660.9	9233.2	9846.5	10445.8	10957.2	11343.0	11121.3
62.5°	6119.5	6246.2	6520.6	6985.0	7742.6	8658.5	9832.5	11249.2	12792.5	13723.7	13058.7
65°	3829.1	3960.4	4239.5	4736.8	5623.4	6762.2	8354.8	10702.7	13586.5	14990.3	13636.9
67.5°	1492.9	1564.5	1715.8	2033.6	2699.7	3713.0	5311.5	7976.0	11425.1	12655.3	11212.8
70°	748.2	755.3	783.4	842.0	985.1	1279.5	1946.8	3697.7	6552.2	7913.8	6316.5
72.5°	540.6	541.8	555.9	581.7	627.4	693.1	819.8	1131.7	2130.9	3256.8	1997.2
75°	414.0	418.7	426.9	441.0	465.6	498.4	544.2	652.1	808.0	937.0	788.1
77.5°	319.0	328.4	334.2	347.1	362.4	384.7	397.6	438.6	510.2	537.1	528.9
80°	242.8	251.0	263.9	274.4	285.0	295.5	290.8	309.6	347.1	369.4	357.7
82.5°	154.8	164.2	201.7	211.1	215.8	222.8	214.6	215.8	232.2	246.3	232.2
85°	99.7	105.5	127.8	139.6	140.7	145.4	141.9	133.7	133.7	122.0	137.2
87.5°	45.7	46.9	57.5	68.0	70.4	63.3	62.2	59.8	48.1	45.7	49.3
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°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	2832.2	2834.6	2835.7	2839.3	2840.4	2840.4	2841.6	2844.0
5°	2854.5	2858.0	2859.2	2863.9	2865.1	2863.9	2866.2	2867.4
7.5°	2894.4	2900.3	2902.6	2907.3	2903.8	2908.5	2909.6	2909.6
10°	2953.0	2958.9	2960.1	2964.8	2962.4	2964.8	2964.8	2962.4
12.5°	3030.4	3031.6	3028.1	3031.6	3026.9	3029.3	3025.7	3023.4
15°	3116.0	3112.5	3104.3	3104.3	3097.3	3098.4	3097.3	3096.1
17.5°	3199.3	3192.3	3186.4	3184.1	3178.2	3177.0	3173.5	3173.5
20°	3290.8	3287.3	3283.7	3279.1	3273.2	3267.3	3266.2	3268.5
22.5°	3401.0	3399.8	3399.8	3397.5	3389.3	3383.4	3379.9	3379.9
25°	3548.8	3538.2	3538.2	3537.1	3533.5	3530.0	3523.0	3526.5
27.5°	3715.3	3709.5	3714.1	3713.0	3709.5	3709.5	3704.8	3704.8
30°	3920.6	3918.2	3925.2	3919.4	3907.7	3906.5	3901.8	3895.9
32.5°	4157.5	4155.1	4165.7	4158.6	4139.9	4129.3	4119.9	4115.2
35°	4421.3	4422.5	4435.4	4430.7	4409.6	4402.6	4386.1	4383.8
37.5°	4709.8	4728.6	4750.9	4755.6	4738.0	4733.3	4715.7	4706.3
40°	5048.8	5073.4	5107.4	5115.6	5096.8	5093.3	5068.7	5055.8
42.5°	5410.0	5452.2	5494.4	5501.4	5482.7	5463.9	5440.5	5431.1
45°	5813.4	5863.8	5918.9	5933.0	5904.9	5882.6	5852.1	5852.1
47.5°	6266.1	6329.4	6391.6	6430.3	6404.5	6381.0	6344.7	6321.2
50°	6800.9	6887.7	6968.6	7008.4	6967.4	6922.8	6859.5	6838.4
52.5°	7471.7	7565.5	7635.9	7614.8	7551.4	7489.3	7420.1	7391.9
55°	8327.8	8359.5	8359.5	8279.7	8153.1	8048.7	7939.6	7903.3
57.5°	9398.5	9276.6	9088.9	8850.9	8551.8	8291.5	8115.5	8032.3
60°	10656.9	10070.5	9407.9	8757.0	8222.3	7781.3	7519.8	7400.2
62.5°	11495.5	9961.5	8633.9	7589.0	6819.6	6288.4	5927.2	5786.4
65°	10743.7	8307.9	6530.0	5279.8	4441.3	3900.6	3542.9	3411.6
67.5°	7869.3	5205.9	3477.3	2492.1	1826.0	1456.6	1310.0	1249.0
70°	3532.4	1833.0	1123.5	877.2	756.4	694.3	667.3	657.9
72.5°	1064.9	770.5	649.7	586.4	538.3	507.8	485.5	483.2
75°	642.7	534.8	475.0	437.4	406.9	382.3	370.6	367.1
77.5°	449.2	392.9	364.7	337.8	314.3	295.5	285.0	276.8
80°	315.5	288.5	275.6	260.4	245.1	227.5	212.3	205.2
82.5°	211.1	205.2	205.2	195.9	183.0	166.5	136.0	129.0
85°	136.0	134.9	137.2	133.7	124.3	106.7	88.0	83.3
87.5°	63.3	64.5	71.5	70.4	68.0	56.3	44.6	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)