

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: P191634

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191634  
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-06-LED-E1-5NQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24196 lumens  
Efficiency: N/A  
Efficacy: 125.4 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): 193  
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

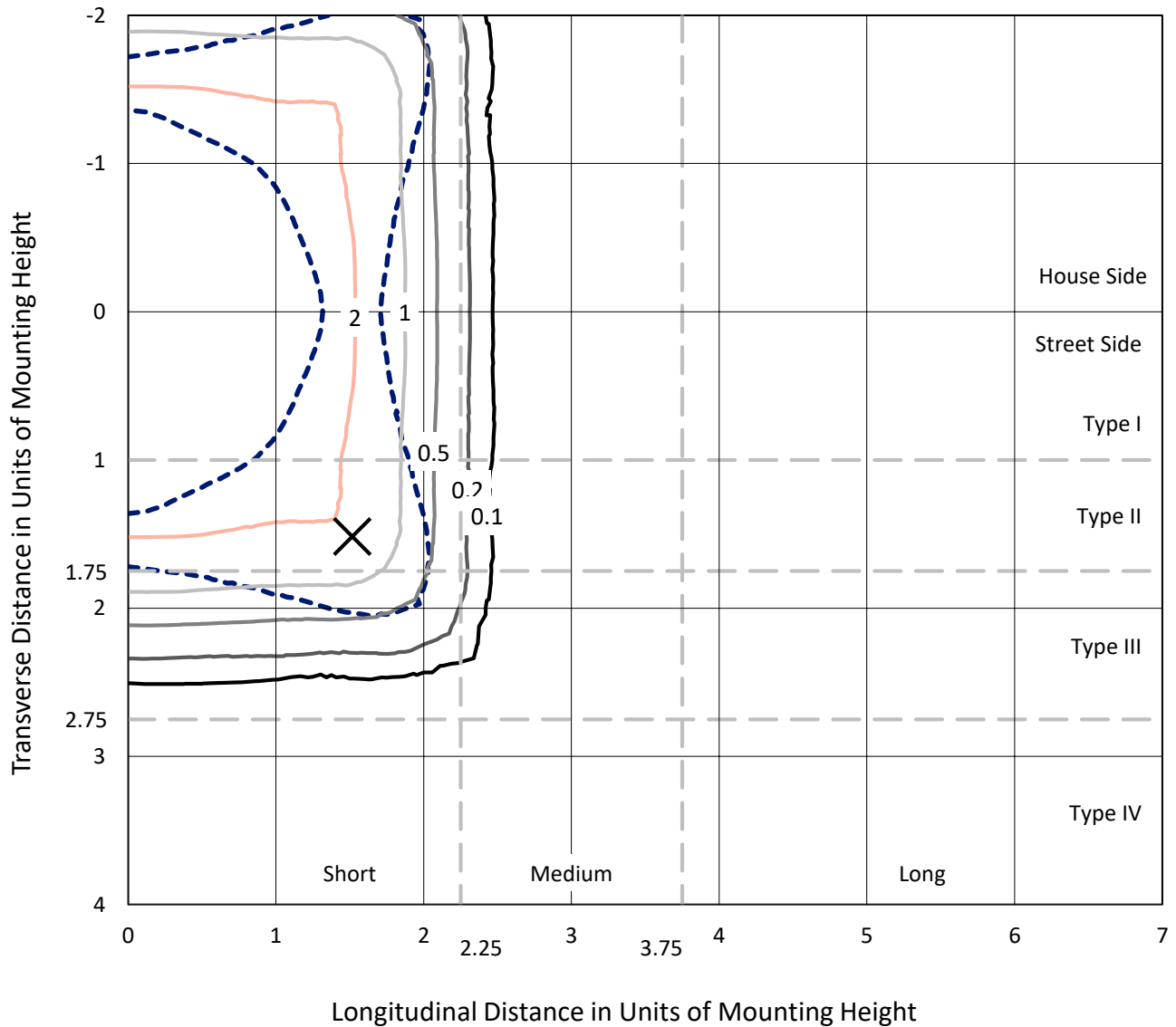


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

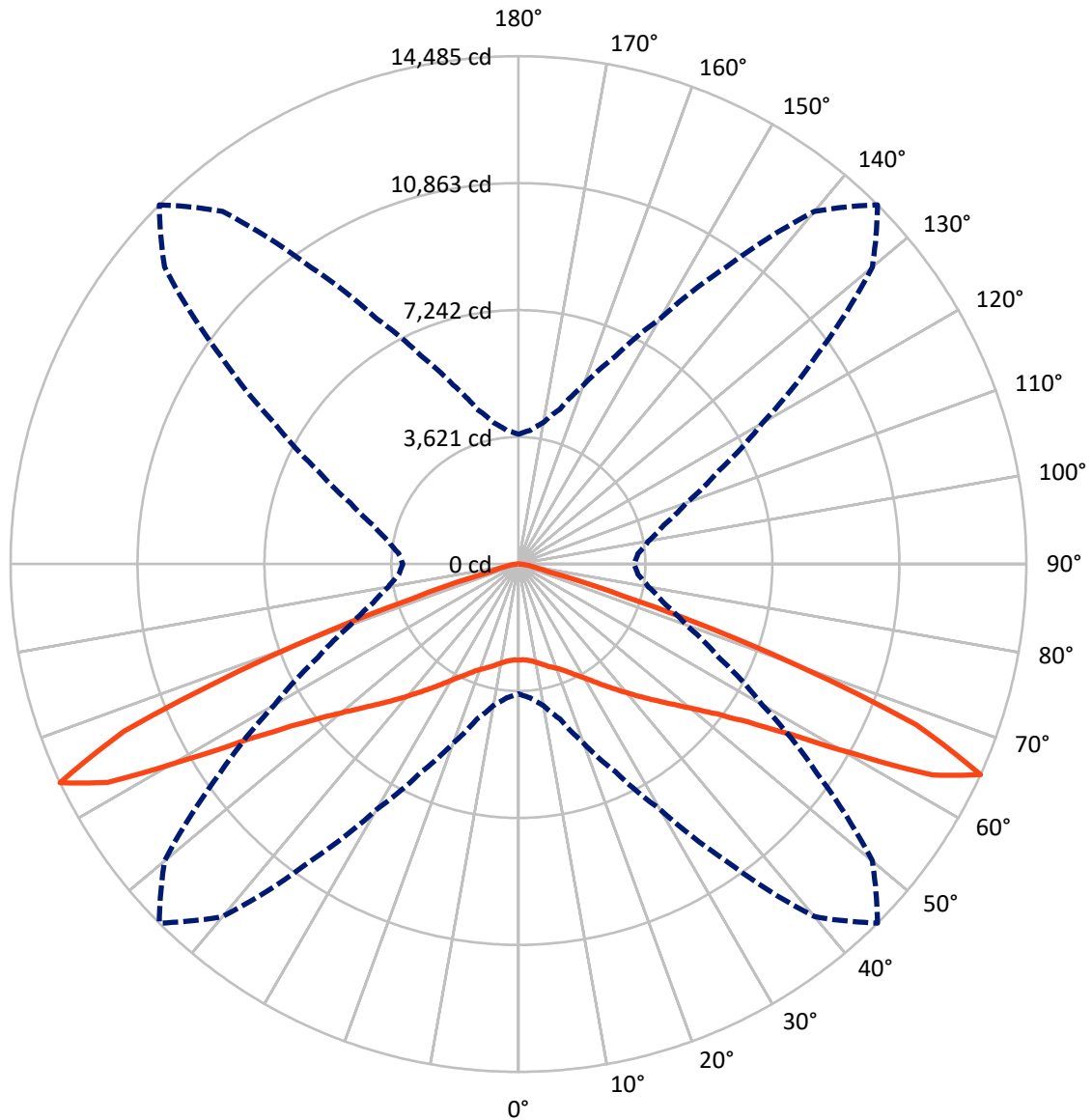


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Full Cutoff

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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	12098.0	0.0	12098.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12098.0	0.0	12098.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24196.0	0.0	24196.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	1.1
10°-20°	855.8	3.5
20°-30°	1600.2	6.6
30°-40°	2706.4	11.2
40°-50°	4425.3	18.3
50°-60°	7036.9	29.1
60°-70°	6360.9	26.3
70°-80°	805.0	3.3
80°-90°	138.5	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°	24196.0	100.0
0°-180°	24196.0	100.0



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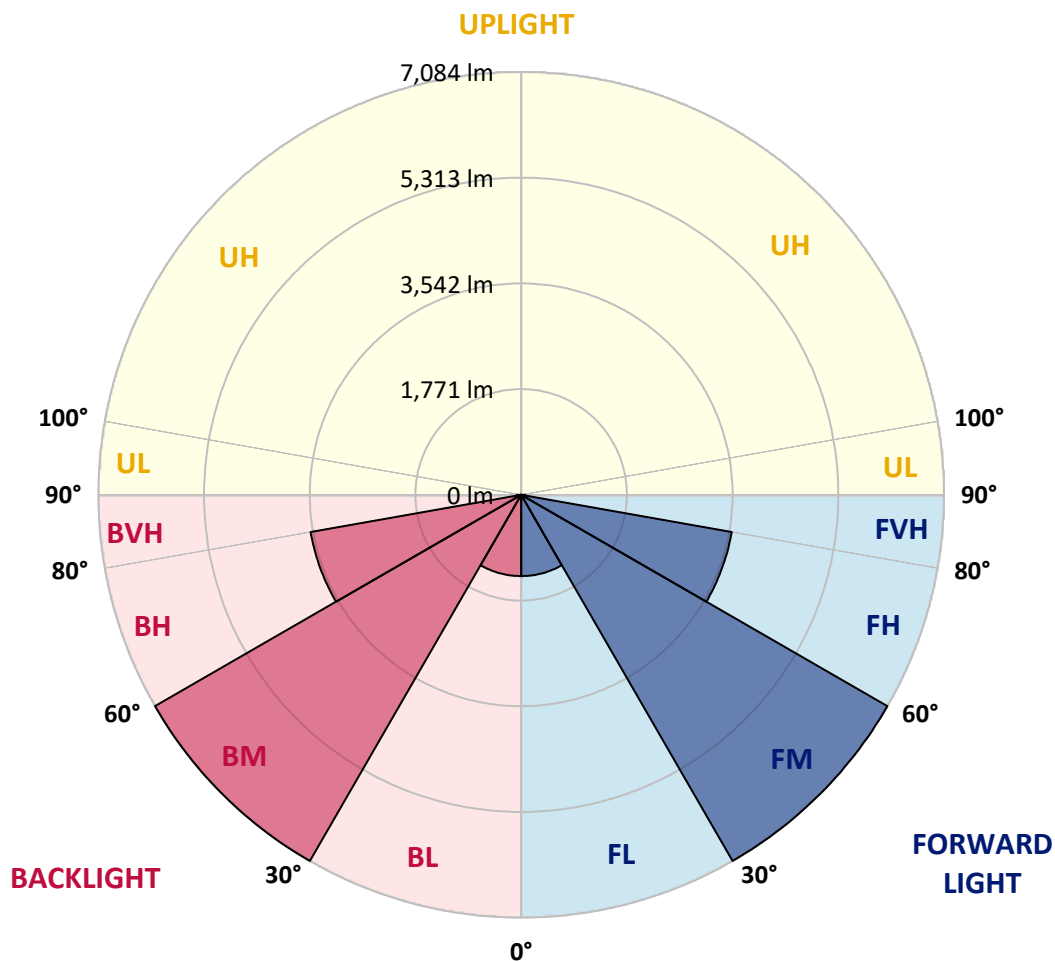
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1361.5	5.6			
FM	(30°-60°)	7084.3	29.3			
FH	(60°-80°)	3583.0	14.8			G2/5000
FVH	(80°-90°)	69.2	0.3			G1/100
BL	(0°-30°)	1361.5	5.6	B3/2500		
BM	(30°-60°)	7084.3	29.3	B4/8500		
BH	(60°-80°)	3583.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	69.2	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°	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8
2.5°	2740.1	2742.3	2744.6	2742.3	2744.6	2741.2	2738.9	2742.3	2738.9	2735.5	2737.8
5°	2763.9	2765.0	2765.0	2761.6	2765.0	2762.7	2759.3	2763.9	2760.5	2757.1	2759.3
7.5°	2803.5	2808.0	2804.6	2801.2	2803.5	2801.2	2799.0	2800.1	2799.0	2795.6	2796.7
10°	2856.8	2860.2	2857.9	2856.8	2859.0	2857.9	2855.6	2854.5	2855.6	2852.2	2852.2
12.5°	2921.4	2920.2	2919.1	2920.2	2923.6	2923.6	2922.5	2923.6	2925.9	2927.0	2924.8
15°	2984.8	2987.1	2987.1	2987.1	2993.9	2999.6	3003.0	3005.2	3009.8	3010.9	3006.4
17.5°	3064.1	3064.1	3063.0	3064.1	3070.9	3080.0	3083.4	3087.9	3092.5	3095.9	3090.2
20°	3152.5	3154.8	3154.8	3157.1	3166.1	3176.3	3176.3	3178.6	3176.3	3178.6	3175.2
22.5°	3260.2	3267.0	3267.0	3268.1	3277.2	3289.7	3286.3	3289.7	3284.0	3288.5	3284.0
25°	3400.7	3410.9	3408.6	3408.6	3415.4	3423.4	3424.5	3431.3	3430.2	3435.8	3432.4
27.5°	3559.4	3575.2	3579.8	3578.6	3583.2	3591.1	3593.3	3601.3	3596.7	3601.3	3599.0
30°	3749.7	3756.5	3765.6	3769.0	3774.7	3782.6	3782.6	3783.7	3778.1	3784.9	3788.3
32.5°	3946.9	3959.4	3968.4	3988.8	3999.0	4004.7	4003.6	4005.8	4000.2	4009.2	4016.0
35°	4207.5	4216.6	4231.3	4247.2	4260.8	4259.7	4256.3	4257.4	4257.4	4265.3	4272.1
37.5°	4521.4	4523.7	4543.0	4565.6	4572.4	4565.6	4545.2	4540.7	4530.5	4540.7	4552.0
40°	4853.5	4861.4	4899.9	4914.7	4918.1	4905.6	4876.1	4859.1	4836.5	4848.9	4864.8
42.5°	5201.3	5217.2	5252.3	5278.4	5289.7	5281.8	5241.0	5214.9	5185.5	5192.3	5208.1
45°	5586.6	5605.9	5655.8	5680.7	5702.2	5689.8	5650.1	5610.4	5564.0	5567.4	5592.3
47.5°	6017.2	6036.5	6101.1	6143.0	6154.4	6152.1	6107.9	6053.5	5990.0	5987.8	6009.3
50°	6500.0	6519.3	6599.7	6664.3	6697.2	6693.8	6641.6	6564.6	6487.5	6488.7	6515.9
52.5°	6971.4	6995.2	7079.0	7190.1	7254.7	7301.2	7269.4	7196.9	7102.8	7105.1	7130.0
55°	7413.3	7453.0	7549.3	7700.0	7820.2	7950.5	7987.9	7985.6	7928.9	7944.8	7969.7
57.5°	7627.5	7686.4	7834.9	8072.9	8317.6	8582.8	8807.2	8974.9	9046.3	9153.9	9129.0
60°	7221.8	7315.9	7534.6	7884.7	8368.6	8921.6	9514.3	10093.3	10587.4	10960.2	10746.1
62.5°	5913.0	6035.4	6300.5	6749.3	7481.3	8366.4	9500.7	10869.6	12360.9	13260.6	12618.1
65°	3699.9	3826.8	4096.5	4577.0	5433.7	6534.0	8072.9	10341.5	13128.0	14484.5	13176.7
67.5°	1442.6	1511.7	1657.9	1965.0	2608.6	3587.7	5132.2	7706.8	11039.6	12228.3	10834.4
70°	723.0	729.8	757.0	813.6	951.9	1236.3	1881.1	3573.0	6331.1	7646.8	6103.4
72.5°	522.4	523.5	537.1	562.1	606.3	669.7	792.1	1093.5	2059.0	3146.9	1929.8
75°	400.0	404.5	412.5	426.1	449.9	481.6	525.8	630.1	780.8	905.4	761.5
77.5°	308.2	317.3	323.0	335.4	350.2	371.7	384.2	423.8	492.9	519.0	511.1
80°	234.6	242.5	255.0	265.2	275.4	285.6	281.0	299.2	335.4	357.0	345.6
82.5°	149.6	158.6	194.9	204.0	208.5	215.3	207.4	208.5	224.4	238.0	224.4
85°	96.3	102.0	123.5	134.8	136.0	140.5	137.1	129.2	129.2	117.9	132.6
87.5°	44.2	45.3	55.5	65.7	68.0	61.2	60.1	57.8	46.5	44.2	47.6
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°	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8
2.5°	2736.7	2738.9	2740.1	2743.5	2744.6	2744.6	2745.7	2748.0
5°	2758.2	2761.6	2762.7	2767.3	2768.4	2767.3	2769.5	2770.7
7.5°	2796.7	2802.4	2804.6	2809.2	2805.8	2810.3	2811.4	2811.4
10°	2853.4	2859.0	2860.2	2864.7	2862.4	2864.7	2864.7	2862.4
12.5°	2928.2	2929.3	2925.9	2929.3	2924.8	2927.0	2923.6	2921.4
15°	3010.9	3007.5	2999.6	2999.6	2992.8	2993.9	2992.8	2991.6
17.5°	3091.3	3084.5	3078.9	3076.6	3070.9	3069.8	3066.4	3066.4
20°	3179.7	3176.3	3172.9	3168.4	3162.7	3157.1	3155.9	3158.2
22.5°	3286.3	3285.1	3285.1	3282.9	3274.9	3269.3	3265.9	3265.9
25°	3429.0	3418.8	3418.8	3417.7	3414.3	3410.9	3404.1	3407.5
27.5°	3590.0	3584.3	3588.8	3587.7	3584.3	3584.3	3579.8	3579.8
30°	3788.3	3786.0	3792.8	3787.1	3775.8	3774.7	3770.1	3764.5
32.5°	4017.2	4014.9	4025.1	4018.3	4000.2	3990.0	3980.9	3976.4
35°	4272.1	4273.3	4285.7	4281.2	4260.8	4254.0	4238.1	4235.9
37.5°	4550.9	4569.0	4590.6	4595.1	4578.1	4573.6	4556.6	4547.5
40°	4878.4	4902.2	4935.0	4943.0	4924.8	4921.5	4897.7	4885.2
42.5°	5227.4	5268.2	5309.0	5315.8	5297.7	5279.5	5256.9	5247.8
45°	5617.2	5666.0	5719.2	5732.8	5705.6	5684.1	5654.6	5654.6
47.5°	6054.6	6115.8	6175.9	6213.3	6188.4	6165.7	6130.6	6107.9
50°	6571.4	6655.2	6733.4	6772.0	6732.3	6689.2	6628.0	6607.6
52.5°	7219.6	7310.2	7378.2	7357.8	7296.6	7236.6	7169.7	7142.5
55°	8046.8	8077.4	8077.4	8000.3	7877.9	7777.1	7671.7	7636.6
57.5°	9081.4	8963.5	8782.2	8552.2	8263.2	8011.7	7841.7	7761.2
60°	10297.3	9730.7	9090.5	8461.5	7944.8	7518.7	7266.0	7150.4
62.5°	11107.5	9625.3	8342.6	7332.9	6589.5	6076.2	5727.1	5591.2
65°	10381.2	8027.5	6309.6	5101.6	4291.4	3769.0	3423.4	3296.5
67.5°	7603.7	5030.2	3359.9	2408.0	1764.4	1407.4	1265.8	1206.8
70°	3413.2	1771.2	1085.6	847.6	730.9	670.8	644.8	635.7
72.5°	1028.9	744.5	627.8	566.6	520.1	490.7	469.1	466.9
75°	621.0	516.7	458.9	422.7	393.2	369.4	358.1	354.7
77.5°	434.0	379.6	352.4	326.4	303.7	285.6	275.4	267.4
80°	304.8	278.8	266.3	251.6	236.8	219.8	205.1	198.3
82.5°	204.0	198.3	198.3	189.2	176.8	160.9	131.5	124.7
85°	131.5	130.3	132.6	129.2	120.1	103.1	85.0	80.5
87.5°	61.2	62.3	69.1	68.0	65.7	54.4	43.1	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)