

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: P299666

Luminaire Tested: **GLNA-AF-06-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299666
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: GLNA-AF-06-LED-E1-5MQ-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29126.3 lumens
Efficiency: N/A
Efficacy: 117.0 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 - G3

Input Watts (W): 249
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

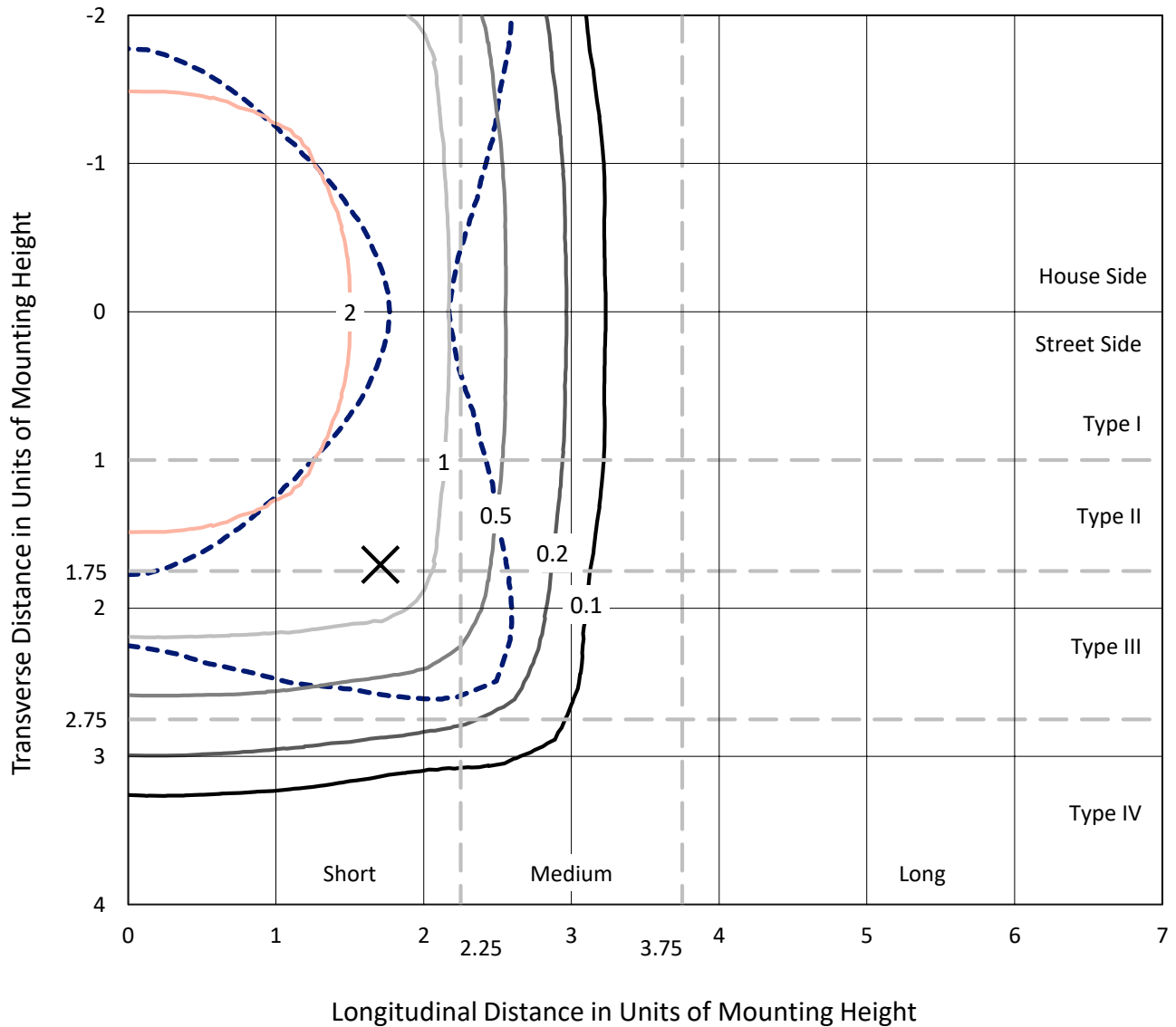


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

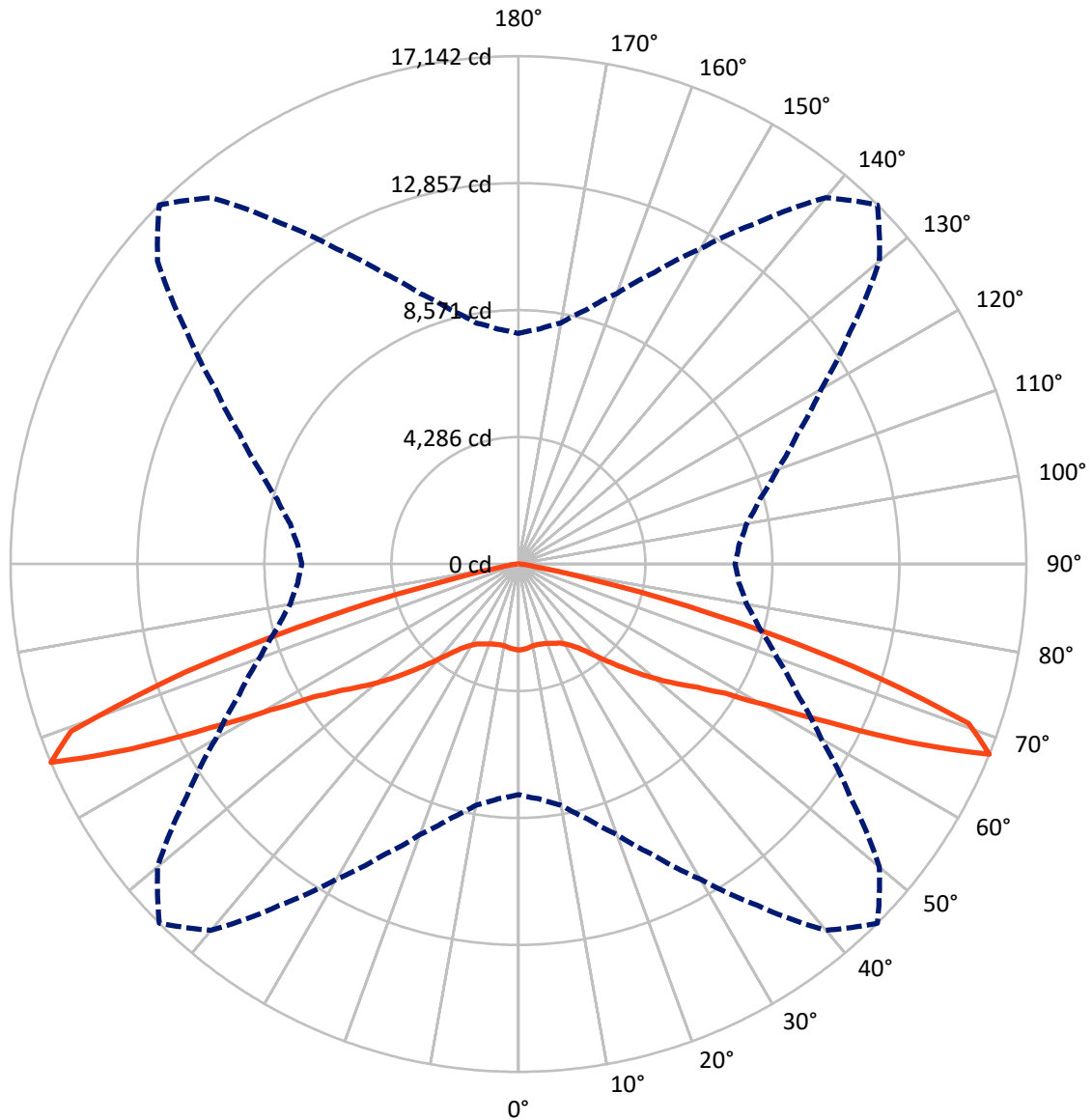


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	14563.1	0.0	14563.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14563.1	0.0	14563.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	29126.3	0.0	29126.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	0.9
10°-20°	788.3	2.7
20°-30°	1340.1	4.6
30°-40°	2190.7	7.5
40°-50°	3910.8	13.4
50°-60°	6593.7	22.6
60°-70°	10232.5	35.1
70°-80°	3595.2	12.3
80°-90°	203.2	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°	29126.3	100.0
0°-180°	29126.3	100.0



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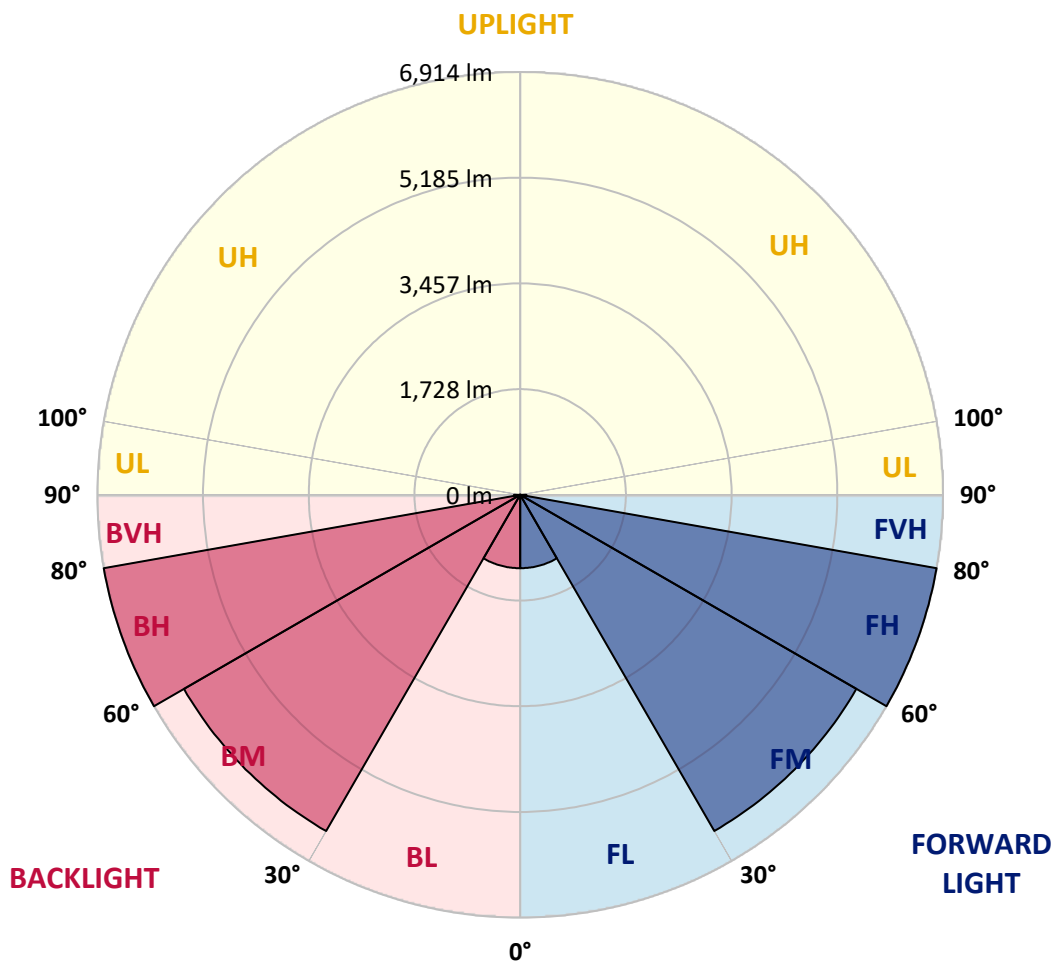
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1200.1	4.1			
FM	(30°-60°)	6347.6	21.8			
FH	(60°-80°)	6913.9	23.7			G3/7500
FVH	(80°-90°)	101.6	0.3			G2/225
BL	(0°-30°)	1200.1	4.1	B3/2500		
BM	(30°-60°)	6347.6	21.8	B4/8500		
BH	(60°-80°)	6913.9	23.7	B5		G3/7500
BVH	(80°-90°)	101.6	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	2891.8	2894.5	2894.5	2894.5	2893.2	2893.2	2890.5	2893.2	2891.8	2887.8	2889.2
5°	2867.7	2870.4	2870.4	2869.1	2873.1	2871.8	2867.7	2870.4	2869.1	2866.4	2867.7
7.5°	2832.9	2836.9	2836.9	2835.6	2839.6	2838.3	2835.6	2836.9	2836.9	2832.9	2832.9
10°	2794.1	2796.7	2796.7	2795.4	2802.1	2802.1	2800.8	2804.8	2806.1	2802.1	2799.4
12.5°	2757.9	2761.9	2761.9	2767.3	2774.0	2776.7	2783.3	2788.7	2794.1	2792.7	2787.4
15°	2736.5	2739.1	2744.5	2751.2	2761.9	2771.3	2782.0	2794.1	2804.8	2807.5	2799.4
17.5°	2723.1	2727.1	2735.1	2744.5	2759.2	2775.3	2791.4	2807.5	2822.2	2827.5	2818.2
20°	2719.1	2721.7	2729.8	2745.8	2765.9	2790.0	2812.8	2831.6	2851.7	2858.4	2851.7
22.5°	2727.1	2732.4	2741.8	2760.6	2787.4	2818.2	2845.0	2870.4	2895.9	2907.9	2898.5
25°	2763.3	2768.6	2780.7	2804.8	2834.2	2866.4	2897.2	2926.7	2949.4	2961.5	2954.8
27.5°	2830.2	2836.9	2851.7	2875.8	2907.9	2942.7	2976.2	3000.3	3019.1	3023.1	3015.1
30°	2930.7	2945.4	2962.8	2989.6	3027.1	3056.6	3090.1	3111.5	3134.3	3134.3	3127.6
32.5°	3087.4	3102.1	3120.9	3146.3	3175.8	3207.9	3237.4	3256.2	3280.3	3281.6	3265.5
35°	3321.8	3328.5	3344.6	3360.6	3387.4	3415.6	3441.0	3453.1	3473.2	3474.5	3459.8
37.5°	3631.2	3632.6	3643.3	3648.6	3672.7	3703.5	3727.7	3735.7	3754.4	3751.8	3737.0
40°	3991.5	3998.2	4002.2	4010.3	4035.7	4065.2	4090.6	4094.7	4114.7	4110.7	4092.0
42.5°	4408.1	4410.8	4433.5	4445.6	4469.7	4484.4	4516.6	4520.6	4544.7	4534.0	4512.6
45°	4875.5	4899.7	4921.1	4945.2	4970.6	4988.1	5013.5	5008.2	5024.2	5008.2	4996.1
47.5°	5367.1	5384.5	5432.8	5470.3	5511.8	5526.5	5562.7	5546.6	5562.7	5539.9	5535.9
50°	5908.3	5939.1	5980.6	6023.4	6067.6	6091.8	6138.6	6118.5	6140.0	6118.5	6106.5
52.5°	6441.3	6449.4	6540.5	6603.4	6665.0	6693.2	6721.3	6711.9	6713.3	6711.9	6699.9
55°	6947.7	6966.4	7057.5	7143.2	7250.4	7329.4	7377.6	7372.3	7360.2	7348.1	7328.1
57.5°	7518.3	7537.0	7641.5	7747.3	7869.2	7981.7	8079.5	8179.9	8218.8	8229.5	8185.3
60°	8289.8	8288.4	8427.7	8556.3	8730.4	8897.9	9112.2	9330.5	9581.0	9697.5	9543.5
62.5°	9074.7	9106.8	9307.7	9535.4	9894.4	10244.0	10639.1	11027.6	11424.1	11746.9	11404.0
65°	8980.9	9104.1	9402.8	9918.5	10581.5	11369.1	12221.0	13122.5	13936.8	14496.7	13868.5
67.5°	7783.5	7958.9	8263.0	8889.8	9718.9	10854.8	12285.3	14068.1	16140.2	17142.1	15900.4
70°	5641.7	5839.9	6158.7	6770.8	7591.9	8671.5	10225.3	12365.7	15108.8	16118.8	14751.2
72.5°	2807.5	2914.6	3111.5	3501.3	4122.8	4998.8	6407.9	8465.2	10892.3	11819.2	10569.5
75°	953.7	1003.2	1036.7	1164.0	1360.9	1705.1	2405.6	3700.9	5645.7	6768.2	5565.4
77.5°	550.5	551.8	574.6	597.4	630.9	668.4	762.1	1000.6	1730.6	2457.9	1790.8
80°	356.3	355.0	373.7	391.1	413.9	432.6	438.0	463.4	534.4	633.6	566.6
82.5°	184.8	207.6	249.1	271.9	314.8	322.8	312.1	302.7	320.1	332.2	340.2
85°	101.8	88.4	132.6	171.4	190.2	192.9	192.9	182.2	188.9	184.8	200.9
87.5°	46.9	42.9	52.2	84.4	89.7	76.3	80.4	71.0	50.9	49.6	56.3
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°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	2889.2	2890.5	2890.5	2894.5	2895.9	2898.5	2901.2	2902.6
5°	2866.4	2870.4	2867.7	2871.8	2871.8	2874.4	2874.4	2875.8
7.5°	2832.9	2836.9	2836.9	2836.9	2835.6	2839.6	2839.6	2839.6
10°	2798.1	2800.8	2799.4	2796.7	2794.1	2798.1	2796.7	2795.4
12.5°	2787.4	2780.7	2775.3	2772.6	2767.3	2768.6	2764.6	2764.6
15°	2794.1	2782.0	2772.6	2768.6	2763.3	2760.6	2757.9	2759.2
17.5°	2811.5	2796.7	2784.7	2778.0	2771.3	2767.3	2761.9	2763.3
20°	2842.3	2824.9	2807.5	2794.1	2782.0	2775.3	2771.3	2770.0
22.5°	2887.8	2862.4	2836.9	2816.8	2800.8	2791.4	2787.4	2784.7
25°	2940.1	2911.9	2882.5	2859.7	2843.6	2831.6	2823.5	2823.5
27.5°	3005.7	2982.9	2956.1	2929.3	2914.6	2902.6	2897.2	2894.5
30°	3115.5	3094.1	3072.7	3047.2	3028.5	3016.4	3007.0	2999.0
32.5°	3256.2	3238.8	3221.3	3202.6	3185.2	3169.1	3154.4	3147.7
35°	3454.4	3441.0	3429.0	3407.5	3400.8	3391.5	3383.4	3376.7
37.5°	3727.7	3722.3	3722.3	3699.5	3694.2	3690.1	3682.1	3683.4
40°	4086.6	4092.0	4085.3	4077.2	4073.2	4062.5	4062.5	4071.9
42.5°	4511.2	4515.2	4530.0	4516.6	4531.3	4517.9	4509.9	4516.6
45°	5004.1	5018.9	5048.3	5034.9	5044.3	5021.5	4993.4	4994.8
47.5°	5557.3	5570.7	5582.8	5573.4	5574.7	5537.2	5499.7	5490.3
50°	6131.9	6137.3	6144.0	6130.6	6133.3	6091.8	6048.9	6050.2
52.5°	6699.9	6725.3	6752.1	6715.9	6707.9	6661.0	6600.7	6576.6
55°	7349.5	7385.7	7354.8	7291.9	7228.9	7166.0	7087.0	7073.6
57.5°	8150.5	8088.9	7992.4	7873.2	7786.1	7697.7	7617.4	7583.9
60°	9264.9	9033.2	8859.0	8682.2	8571.1	8462.6	8356.7	8340.7
62.5°	10840.1	10439.6	10092.7	9727.0	9428.3	9195.2	9009.0	8956.8
65°	12814.4	11867.4	11046.3	10280.2	9614.5	9112.2	8796.1	8656.8
67.5°	13663.6	11793.7	10386.0	9298.4	8427.7	7819.6	7478.1	7308.0
70°	12006.7	9780.6	8249.6	7160.6	6367.7	5719.4	5410.0	5227.8
72.5°	8260.3	6221.7	4919.7	4015.6	3382.1	2839.6	2625.3	2609.2
75°	3708.9	2456.5	1693.0	1304.6	1098.3	955.0	910.8	877.3
77.5°	1038.1	767.5	684.5	640.3	597.4	547.8	529.1	533.1
80°	505.0	476.8	458.1	430.0	391.1	349.6	330.8	338.9
82.5°	334.9	330.8	342.9	322.8	266.5	226.4	190.2	174.1
85°	203.6	206.3	210.3	211.6	179.5	125.9	85.7	96.4
87.5°	80.4	92.4	100.5	104.5	97.8	60.3	48.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)