

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: P191704

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191704
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-06-LED-E1-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41136 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 382
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

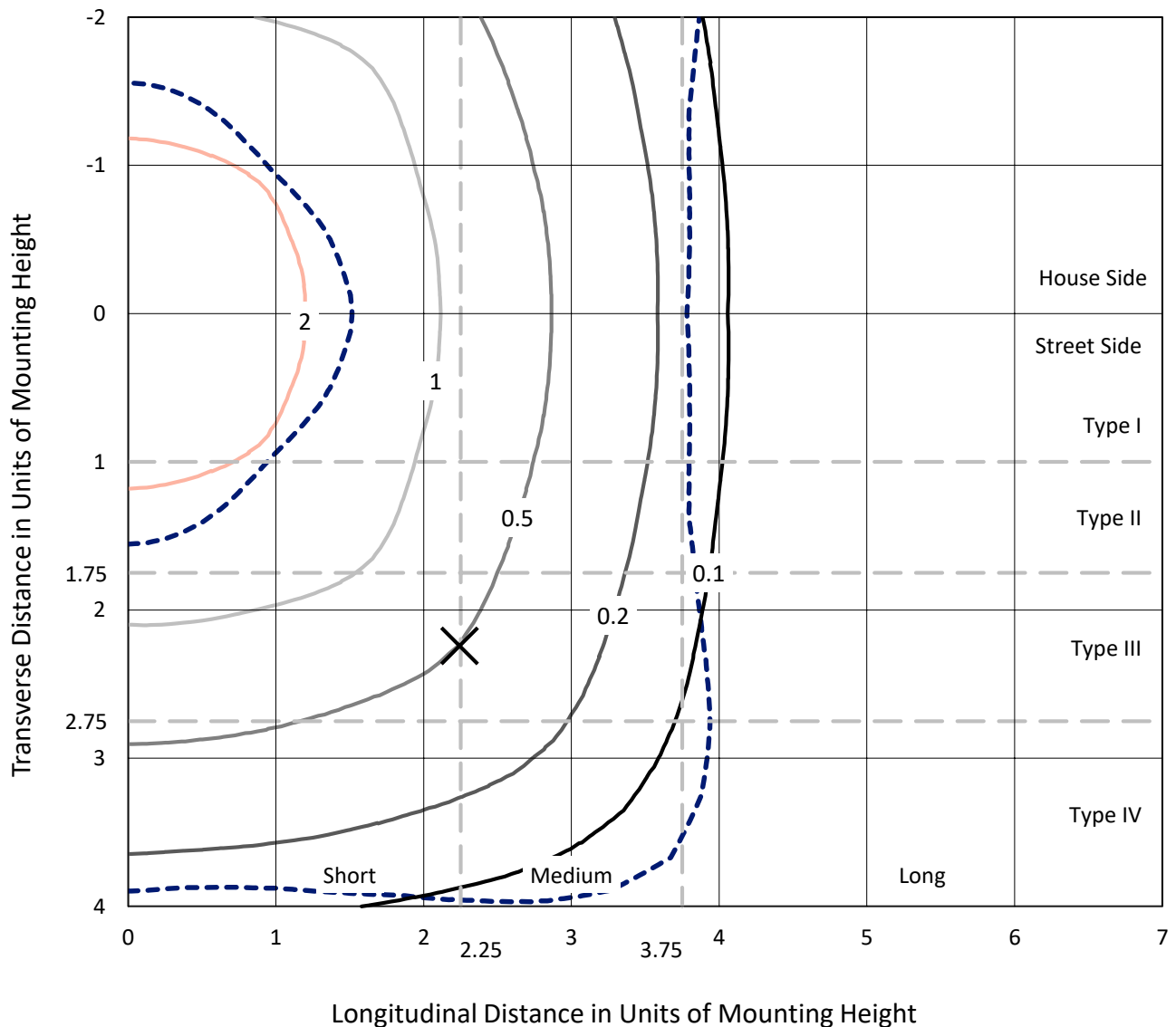


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

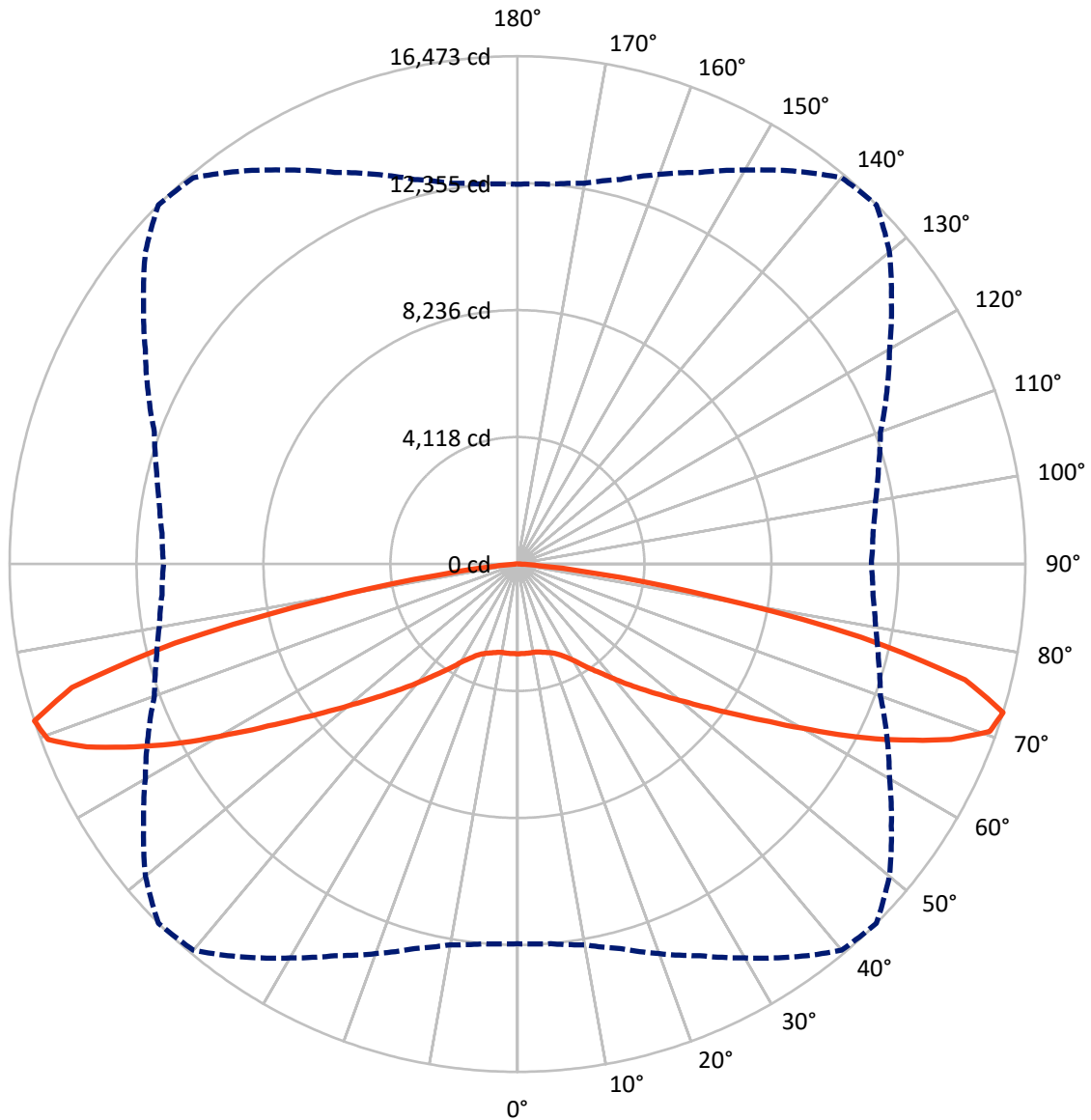


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	20568.0	0.0	20568.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20568.0	0.0	20568.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41136.0	0.0	41136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	0.7
10°-20°	844.8	2.1
20°-30°	1543.8	3.8
30°-40°	2661.8	6.5
40°-50°	4550.4	11.1
50°-60°	7375.5	17.9
60°-70°	12235.8	29.7
70°-80°	10776.8	26.2
80°-90°	868.9	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°	41136.0	100.0
0°-180°	41136.0	100.0



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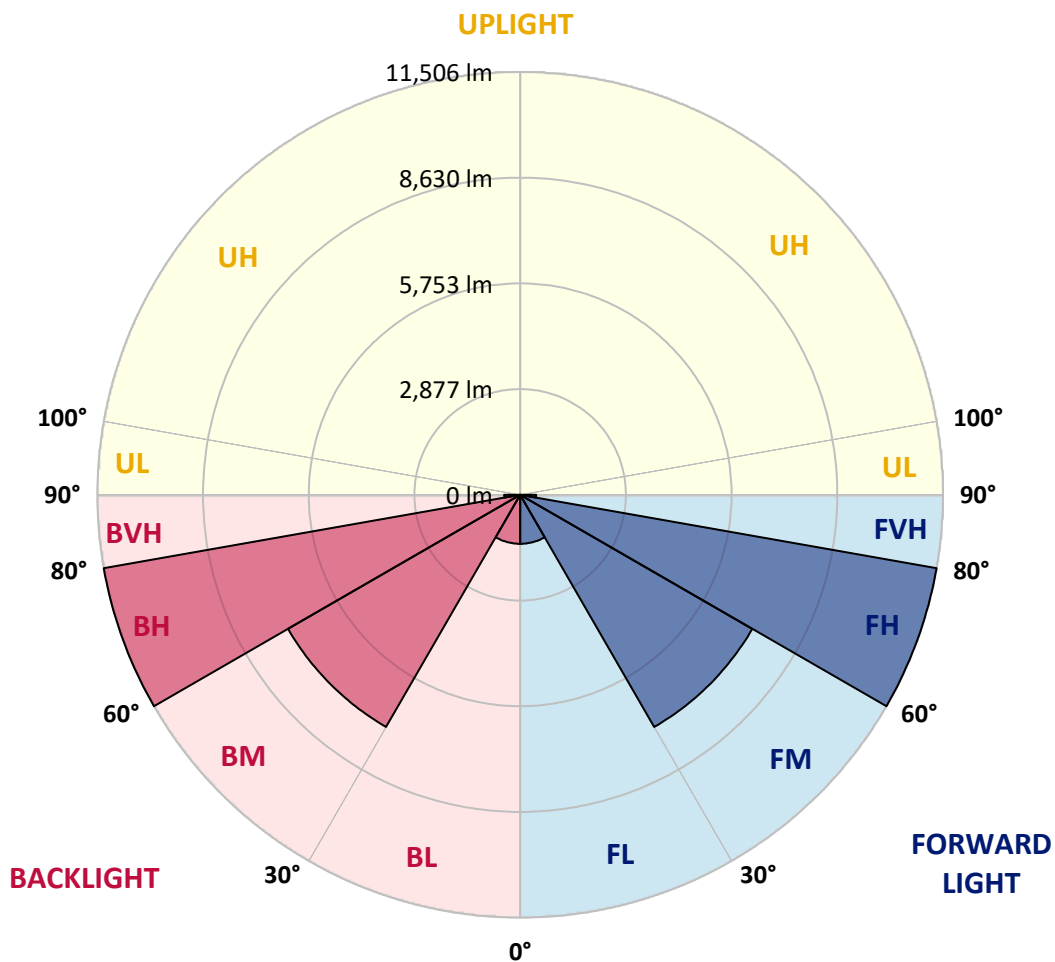
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.4	3.2			
FM	(30°-60°)	7293.9	17.7			
FH	(60°-80°)	11506.3	28.0			G4/12000
FVH	(80°-90°)	434.5	1.1			G3/500
BL	(0°-30°)	1333.4	3.2	B3/2500		
BM	(30°-60°)	7293.9	17.7	B4/8500		
BH	(60°-80°)	11506.3	28.0	B5		G4/12000
BVH	(80°-90°)	434.5	1.1			G3/500
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°	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1
2.5°	2913.1	2915.0	2916.8	2915.0	2915.0	2913.1	2911.2	2913.1	2911.2	2907.4	2909.3
5°	2922.5	2926.3	2926.3	2922.5	2924.4	2922.5	2918.7	2920.6	2916.8	2911.2	2911.2
7.5°	2933.8	2935.7	2935.7	2931.9	2933.8	2930.0	2926.3	2924.4	2920.6	2913.1	2907.4
10°	2950.8	2952.7	2950.8	2947.0	2947.0	2941.4	2931.9	2928.2	2920.6	2909.3	2903.6
12.5°	2969.7	2971.6	2969.7	2965.9	2964.0	2954.6	2947.0	2941.4	2935.7	2926.3	2916.8
15°	2996.1	2999.9	2996.1	2988.5	2982.9	2975.3	2971.6	2973.4	2975.3	2967.8	2958.3
17.5°	3045.1	3047.0	3041.4	3024.4	3016.8	3009.3	3009.3	3013.1	3018.7	3014.9	3005.5
20°	3135.7	3130.0	3116.8	3096.1	3086.6	3073.4	3071.6	3073.4	3073.4	3071.6	3064.0
22.5°	3248.9	3245.1	3228.1	3201.7	3188.5	3181.0	3169.7	3160.2	3158.3	3152.7	3145.1
25°	3384.7	3382.9	3362.1	3339.5	3330.0	3320.6	3311.2	3298.0	3286.6	3273.4	3265.9
27.5°	3558.3	3550.8	3520.6	3509.3	3496.1	3490.4	3477.2	3462.1	3452.7	3435.7	3426.3
30°	3748.9	3748.9	3724.3	3720.6	3720.6	3707.4	3692.3	3665.9	3648.9	3631.9	3626.2
32.5°	3939.4	3941.3	3916.8	3924.3	3930.0	3939.4	3943.2	3933.8	3922.5	3920.6	3909.2
35°	4214.9	4207.3	4182.8	4188.5	4186.6	4184.7	4184.7	4205.5	4209.2	4213.0	4190.4
37.5°	4556.4	4556.4	4531.9	4531.9	4520.5	4509.2	4494.1	4507.3	4528.1	4533.7	4518.7
40°	4946.9	4960.1	4930.0	4928.1	4931.8	4896.0	4879.0	4899.8	4913.0	4935.6	4918.6
42.5°	5407.3	5397.9	5367.7	5363.9	5343.1	5331.8	5316.7	5333.7	5354.5	5369.6	5375.2
45°	5848.8	5841.2	5807.3	5807.3	5786.5	5777.1	5784.6	5812.9	5822.4	5843.1	5863.9
47.5°	6284.6	6275.2	6252.5	6262.0	6263.9	6280.8	6305.4	6331.8	6358.2	6386.5	6395.9
50°	6729.9	6731.8	6707.2	6729.9	6758.2	6805.3	6871.4	6914.8	6969.5	7005.3	7016.6
52.5°	7135.5	7143.1	7169.5	7222.3	7278.9	7371.3	7484.5	7590.2	7680.8	7741.1	7737.4
55°	7622.3	7633.6	7697.7	7788.3	7880.8	8020.4	8188.3	8375.1	8526.0	8612.8	8558.1
57.5°	8244.9	8269.4	8341.1	8463.7	8601.5	8782.6	9012.8	9293.9	9527.8	9644.8	9556.1
60°	9099.6	9114.7	9201.4	9337.3	9503.3	9727.8	10035.4	10412.7	10742.9	10897.6	10795.7
62.5°	10225.9	10254.2	10324.0	10461.8	10631.6	10886.3	11261.7	11733.4	12144.7	12359.8	12129.6
65°	11571.1	11661.7	11720.2	11859.8	12018.3	12288.1	12680.5	13186.2	13627.6	13769.2	13503.1
67.5°	12903.2	12982.4	13084.3	13244.6	13405.0	13708.8	14072.9	14563.5	15048.3	15176.6	14763.4
70°	13486.1	13531.4	13689.9	13908.8	14216.3	14574.8	14995.5	15546.4	16146.4	16252.1	15727.5
72.5°	12318.3	12363.6	12540.9	12912.6	13448.4	14018.2	14752.1	15561.5	16353.9	16472.8	15750.2
75°	9316.5	9243.0	9505.2	9997.6	10720.2	11514.5	12540.9	13701.2	14846.5	14995.5	14133.3
77.5°	4814.9	4805.4	5003.5	5614.8	6477.0	7380.8	8510.9	9822.2	10942.9	11395.7	10693.8
80°	1356.5	1371.6	1466.0	1769.7	2273.5	2926.3	3809.3	5037.5	5954.4	6422.3	6029.9
82.5°	532.0	573.6	609.4	666.0	732.0	828.3	1105.6	1645.2	2207.4	2637.6	2160.3
85°	190.6	203.8	288.7	341.5	347.2	366.0	417.0	486.8	586.8	700.0	575.4
87.5°	71.7	79.2	92.4	152.8	150.9	137.7	167.9	175.5	132.1	120.7	149.0
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°	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1	2913.1
2.5°	2905.5	2907.4	2907.4	2909.3	2911.2	2911.2	2915.0	2915.0
5°	2907.4	2907.4	2903.6	2905.5	2903.6	2903.6	2905.5	2905.5
7.5°	2903.6	2901.7	2898.0	2896.1	2892.3	2892.3	2892.3	2892.3
10°	2898.0	2896.1	2892.3	2890.4	2888.5	2888.5	2888.5	2888.5
12.5°	2913.1	2907.4	2903.6	2901.7	2901.7	2901.7	2901.7	2901.7
15°	2952.7	2939.5	2930.0	2930.0	2931.9	2935.7	2935.7	2939.5
17.5°	3001.7	2986.6	2977.2	2969.7	2973.4	2979.1	2982.9	2986.6
20°	3060.2	3052.7	3039.5	3031.9	3031.9	3039.5	3043.3	3045.1
22.5°	3141.4	3135.7	3130.0	3120.6	3120.6	3124.4	3131.9	3131.9
25°	3262.1	3258.3	3254.6	3247.0	3245.1	3245.1	3248.9	3252.7
27.5°	3413.0	3414.9	3411.2	3409.3	3403.6	3401.7	3407.4	3405.5
30°	3614.9	3624.4	3633.8	3626.2	3616.8	3611.1	3605.5	3597.9
32.5°	3888.5	3877.2	3869.6	3856.4	3839.4	3824.3	3813.0	3799.8
35°	4147.0	4128.1	4120.6	4131.9	4130.0	4120.6	4107.4	4096.0
37.5°	4463.9	4460.2	4463.9	4484.7	4480.9	4490.4	4463.9	4462.1
40°	4863.9	4867.7	4894.1	4918.6	4931.8	4945.0	4930.0	4914.9
42.5°	5328.0	5326.2	5335.6	5369.6	5392.2	5407.3	5375.2	5371.4
45°	5818.6	5805.4	5812.9	5841.2	5863.9	5880.9	5845.0	5845.0
47.5°	6358.2	6335.5	6311.0	6343.1	6356.3	6367.6	6339.3	6329.9
50°	6960.0	6912.9	6860.0	6873.3	6873.3	6869.5	6833.6	6831.7
52.5°	7650.6	7563.8	7467.6	7431.7	7411.0	7388.3	7326.1	7295.9
55°	8444.9	8314.7	8163.8	8071.3	8022.3	7960.0	7856.2	7827.9
57.5°	9373.1	9169.4	8909.0	8795.8	8686.4	8584.5	8469.4	8437.3
60°	10473.1	10173.1	9827.8	9618.4	9499.5	9401.4	9282.6	9276.9
62.5°	11699.4	11225.9	10835.3	10646.7	10559.9	10473.1	10359.9	10375.0
65°	12946.5	12452.2	12086.2	11933.4	11852.3	11780.6	11667.4	11684.3
67.5°	14176.7	13722.0	13320.1	13163.5	13073.0	12982.4	12880.5	12897.5
70°	15059.7	14495.5	14042.7	13695.6	13478.6	13233.3	13074.8	13035.2
72.5°	14806.8	13937.1	13218.2	12529.6	12125.8	11797.5	11574.9	11478.7
75°	12814.5	11625.9	10701.4	9856.1	9380.7	8993.9	8712.8	8537.3
77.5°	9516.5	8180.7	7088.3	6114.8	5345.0	4828.1	4463.9	4228.1
80°	5209.2	3962.1	2896.1	2035.8	1496.2	1243.3	1098.1	1028.3
82.5°	1622.6	1047.1	771.7	666.0	618.8	592.4	549.0	479.2
85°	517.0	452.8	420.7	401.9	383.0	333.9	230.2	209.4
87.5°	200.0	205.7	203.8	192.4	196.2	141.5	113.2	100.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)