

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: P191677

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191677
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-09-LED-E1-5WQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36930 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 290
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

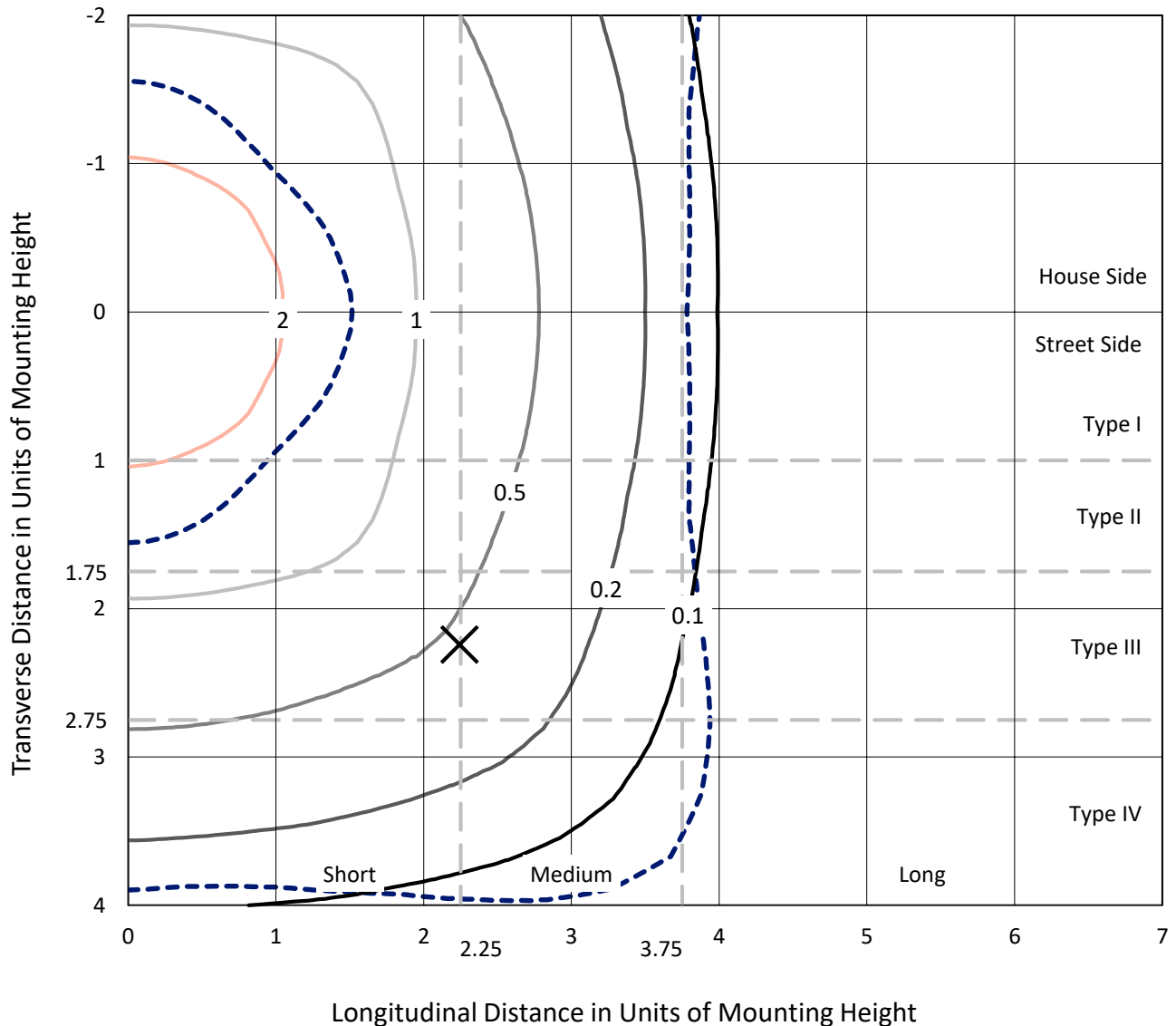


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

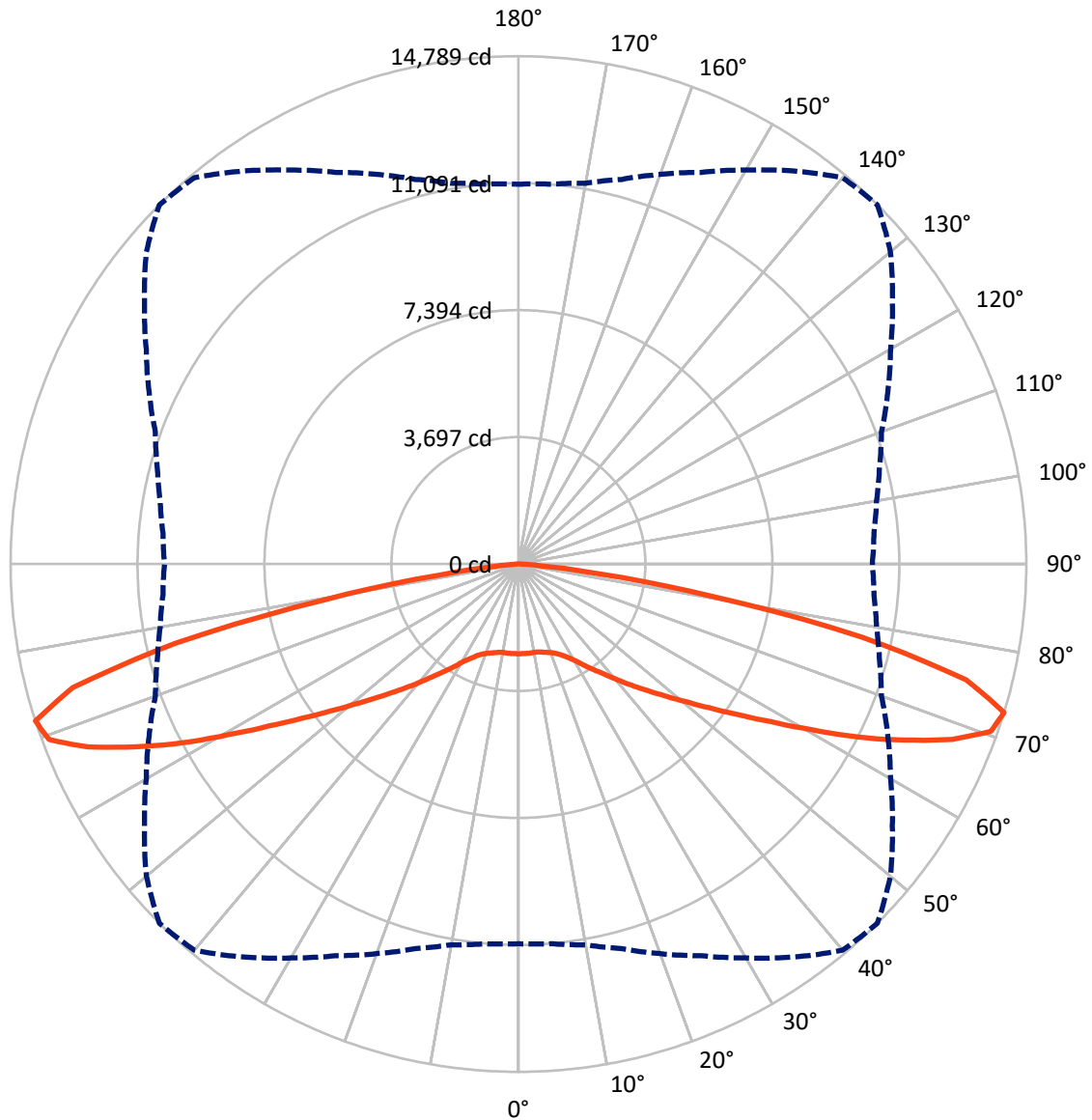


Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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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	18465.0	0.0	18465.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18465.0	0.0	18465.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36930.0	0.0	36930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	0.7
10°-20°	758.4	2.1
20°-30°	1386.0	3.8
30°-40°	2389.7	6.5
40°-50°	4085.1	11.1
50°-60°	6621.4	17.9
60°-70°	10984.7	29.7
70°-80°	9674.9	26.2
80°-90°	780.1	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°	36930.0	100.0
0°-180°	36930.0	100.0



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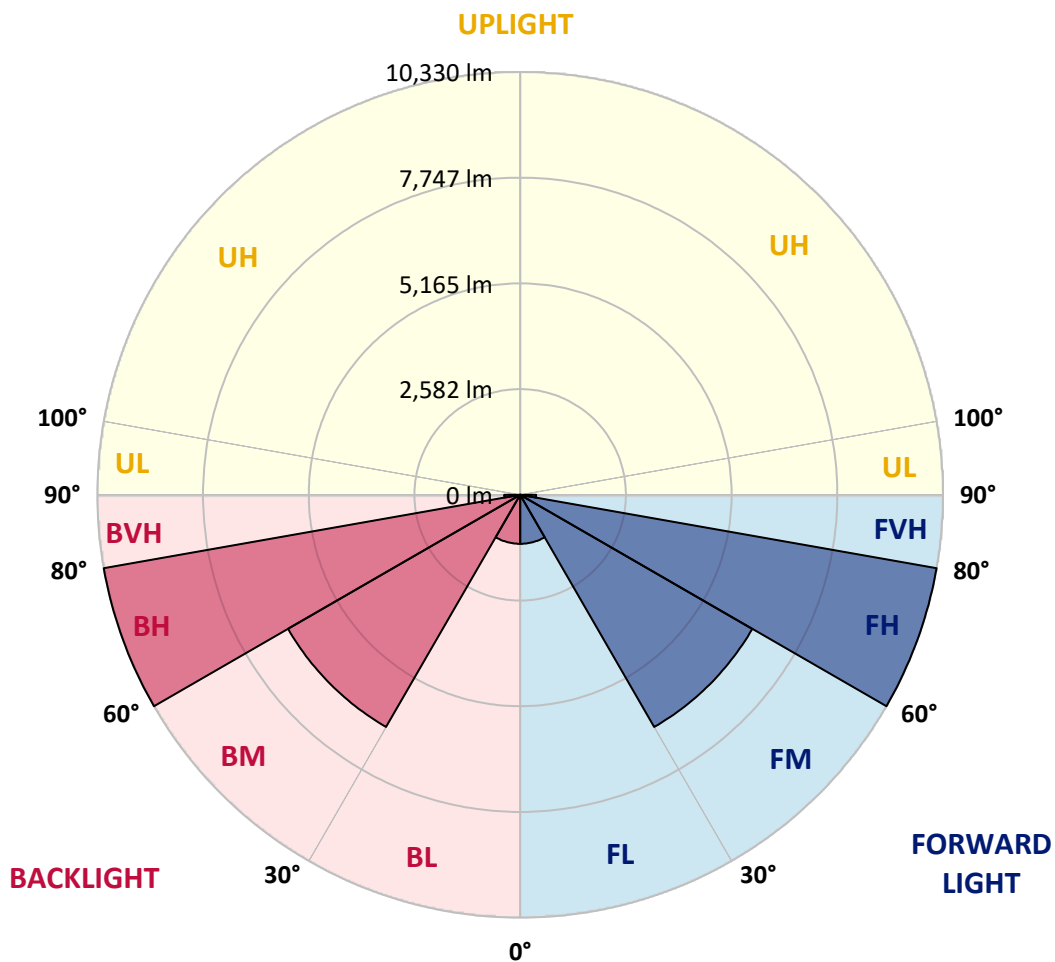
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.1	3.2			
FM (30°-60°)	6548.1	17.7			
FH (60°-80°)	10329.8	28.0			G4/12000
FVH (80°-90°)	390.0	1.1			G3/500
BL (0°-30°)	1197.1	3.2	B3/2500		
BM (30°-60°)	6548.1	17.7	B4/8500		
BH (60°-80°)	10329.8	28.0	B5		G4/12000
BVH (80°-90°)	390.0	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°	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2
2.5°	2615.2	2616.9	2618.6	2616.9	2616.9	2615.2	2613.5	2615.2	2613.5	2610.1	2611.8
5°	2623.7	2627.1	2627.1	2623.7	2625.4	2623.7	2620.3	2622.0	2618.6	2613.5	2613.5
7.5°	2633.8	2635.5	2635.5	2632.2	2633.8	2630.5	2627.1	2625.4	2622.0	2615.2	2610.1
10°	2649.1	2650.8	2649.1	2645.7	2645.7	2640.6	2632.2	2628.8	2622.0	2611.8	2606.7
12.5°	2666.0	2667.7	2666.0	2662.6	2661.0	2652.5	2645.7	2640.6	2635.5	2627.1	2618.6
15°	2689.7	2693.1	2689.7	2683.0	2677.9	2671.1	2667.7	2669.4	2671.1	2664.3	2655.9
17.5°	2733.8	2735.5	2730.4	2715.2	2708.4	2701.6	2701.6	2705.0	2710.1	2706.7	2698.2
20°	2815.1	2810.0	2798.1	2779.5	2771.0	2759.2	2757.5	2759.2	2759.2	2757.5	2750.7
22.5°	2916.7	2913.3	2898.1	2874.4	2862.5	2855.7	2845.6	2837.1	2835.4	2830.3	2823.6
25°	3038.7	3037.0	3018.3	2998.0	2989.5	2981.1	2972.6	2960.8	2950.6	2938.7	2932.0
27.5°	3194.5	3187.7	3160.6	3150.5	3138.6	3133.5	3121.7	3108.1	3099.6	3084.4	3075.9
30°	3365.6	3365.6	3343.5	3340.2	3340.2	3328.3	3314.8	3291.0	3275.8	3260.6	3255.5
32.5°	3536.6	3538.3	3516.3	3523.1	3528.2	3536.6	3540.0	3531.6	3521.4	3519.7	3509.5
35°	3783.9	3777.2	3755.1	3760.2	3758.5	3756.8	3756.8	3775.5	3778.9	3782.2	3761.9
37.5°	4090.5	4090.5	4068.5	4068.5	4058.3	4048.2	4034.6	4046.5	4065.1	4070.2	4056.6
40°	4441.1	4453.0	4425.9	4424.2	4427.6	4395.4	4380.2	4398.8	4410.6	4431.0	4415.7
42.5°	4854.4	4845.9	4818.8	4815.5	4796.8	4786.7	4773.1	4788.4	4807.0	4820.5	4825.6
45°	5250.8	5244.0	5213.5	5213.5	5194.9	5186.4	5193.2	5218.6	5227.0	5245.7	5264.3
47.5°	5642.0	5633.6	5613.2	5621.7	5623.4	5638.6	5660.7	5684.4	5708.1	5733.5	5742.0
50°	6041.8	6043.5	6021.4	6041.8	6067.2	6109.5	6168.8	6207.8	6256.9	6289.1	6299.2
52.5°	6405.9	6412.7	6436.4	6483.8	6534.7	6617.7	6719.3	6814.1	6895.4	6949.6	6946.2
55°	6842.9	6853.1	6910.7	6992.0	7075.0	7200.3	7351.1	7518.8	7654.3	7732.2	7683.0
57.5°	7401.9	7423.9	7488.3	7598.4	7722.0	7884.6	8091.3	8343.6	8553.7	8658.7	8579.1
60°	8169.2	8182.7	8260.6	8382.6	8531.6	8733.2	9009.3	9348.0	9644.5	9783.4	9691.9
62.5°	9180.4	9205.8	9268.4	9392.1	9544.5	9773.2	10110.3	10533.7	10903.0	11096.0	10889.4
65°	10388.0	10469.3	10521.8	10647.2	10789.5	11031.7	11384.0	11837.9	12234.3	12361.3	12122.5
67.5°	11583.9	11655.0	11746.5	11890.4	12034.4	12307.1	12634.0	13074.4	13509.7	13624.9	13253.9
70°	12107.2	12147.9	12290.2	12486.6	12762.7	13084.6	13462.3	13956.9	14495.5	14590.3	14119.5
72.5°	11058.8	11099.4	11258.6	11592.3	12073.4	12584.9	13243.8	13970.4	14681.8	14788.5	14139.8
75°	8364.0	8297.9	8533.3	8975.4	9624.1	10337.2	11258.6	12300.3	13328.5	13462.3	12688.2
77.5°	4322.6	4314.1	4491.9	5040.7	5814.8	6626.1	7640.7	8817.9	9824.0	10230.5	9600.4
80°	1217.8	1231.4	1316.1	1588.8	2041.0	2627.1	3419.8	4522.4	5345.6	5765.7	5413.4
82.5°	477.6	514.9	547.1	597.9	657.2	743.6	992.6	1477.0	1981.7	2367.9	1939.4
85°	171.1	182.9	259.2	306.6	311.7	328.6	374.3	437.0	526.8	628.4	516.6
87.5°	64.4	71.1	83.0	137.2	135.5	123.6	150.7	157.5	118.6	108.4	133.8
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°	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2	2615.2
2.5°	2608.4	2610.1	2610.1	2611.8	2613.5	2613.5	2616.9	2616.9
5°	2610.1	2610.1	2606.7	2608.4	2606.7	2606.7	2608.4	2608.4
7.5°	2606.7	2605.1	2601.7	2600.0	2596.6	2596.6	2596.6	2596.6
10°	2601.7	2600.0	2596.6	2594.9	2593.2	2593.2	2593.2	2593.2
12.5°	2615.2	2610.1	2606.7	2605.1	2605.1	2605.1	2605.1	2605.1
15°	2650.8	2638.9	2630.5	2630.5	2632.2	2635.5	2635.5	2638.9
17.5°	2694.8	2681.3	2672.8	2666.0	2669.4	2674.5	2677.9	2681.3
20°	2747.3	2740.6	2728.7	2721.9	2721.9	2728.7	2732.1	2733.8
22.5°	2820.2	2815.1	2810.0	2801.5	2801.5	2804.9	2811.7	2811.7
25°	2928.6	2925.2	2921.8	2915.0	2913.3	2913.3	2916.7	2920.1
27.5°	3064.1	3065.8	3062.4	3060.7	3055.6	3053.9	3059.0	3057.3
30°	3245.3	3253.8	3262.2	3255.5	3247.0	3241.9	3236.8	3230.1
32.5°	3490.9	3480.7	3474.0	3462.1	3446.9	3433.3	3423.2	3411.3
35°	3723.0	3706.0	3699.2	3709.4	3707.7	3699.2	3687.4	3677.2
37.5°	4007.5	4004.1	4007.5	4026.1	4022.8	4031.2	4007.5	4005.8
40°	4366.6	4370.0	4393.7	4415.7	4427.6	4439.4	4425.9	4412.3
42.5°	4783.3	4781.6	4790.0	4820.5	4840.9	4854.4	4825.6	4822.2
45°	5223.7	5211.8	5218.6	5244.0	5264.3	5279.6	5247.4	5247.4
47.5°	5708.1	5687.8	5665.7	5694.5	5706.4	5716.6	5691.1	5682.7
50°	6248.4	6206.1	6158.6	6170.5	6170.5	6167.1	6134.9	6133.2
52.5°	6868.3	6790.4	6704.0	6671.9	6653.2	6632.9	6577.0	6549.9
55°	7581.4	7464.5	7329.0	7246.1	7202.0	7146.1	7053.0	7027.6
57.5°	8414.8	8231.8	7998.1	7896.5	7798.2	7706.8	7603.4	7574.6
60°	9402.2	9132.9	8823.0	8635.0	8528.3	8440.2	8333.5	8328.4
62.5°	10503.2	10078.1	9727.5	9558.1	9480.2	9402.2	9300.6	9314.2
65°	11622.8	11179.0	10850.4	10713.2	10640.4	10576.0	10474.4	10489.7
67.5°	12727.2	12319.0	11958.2	11817.6	11736.3	11655.0	11563.5	11578.8
70°	13519.9	13013.4	12606.9	12295.2	12100.5	11880.3	11738.0	11702.4
72.5°	13292.9	12512.1	11866.7	11248.5	10886.0	10591.3	10391.4	10305.0
75°	11504.2	10437.2	9607.2	8848.4	8421.5	8074.3	7821.9	7664.4
77.5°	8543.5	7344.3	6363.6	5489.6	4798.5	4334.4	4007.5	3795.8
80°	4676.6	3557.0	2600.0	1827.6	1343.2	1116.2	985.8	923.1
82.5°	1456.7	940.1	692.8	597.9	555.6	531.9	492.9	430.2
85°	464.1	406.5	377.7	360.8	343.8	299.8	206.6	188.0
87.5°	179.5	184.6	182.9	172.8	176.2	127.0	101.6	89.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)