

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: P193445

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193445
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-07-LED-E1-5WQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 39697 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 448
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

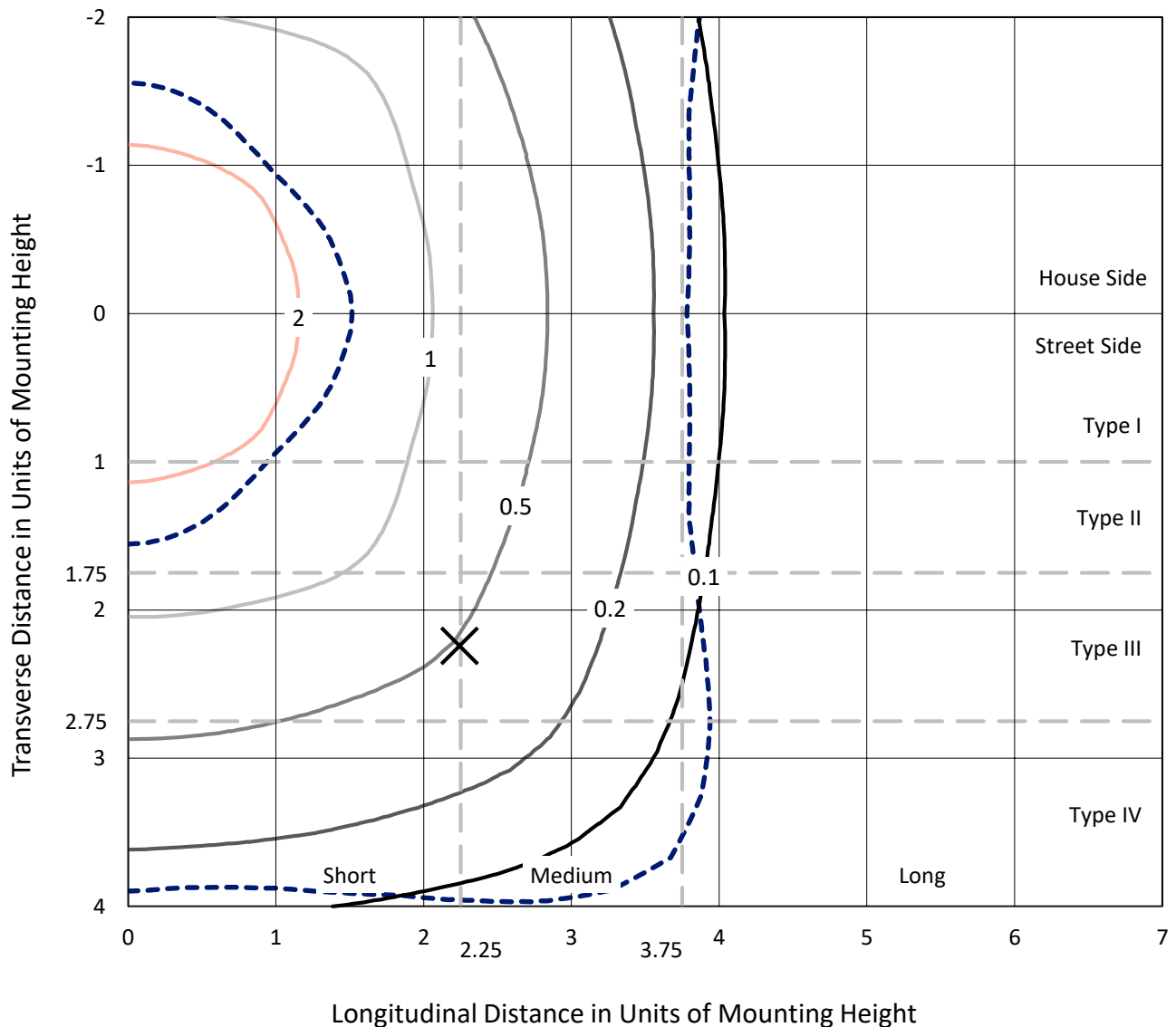


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Iso-Footcandle Lines of Horizontal Illumination

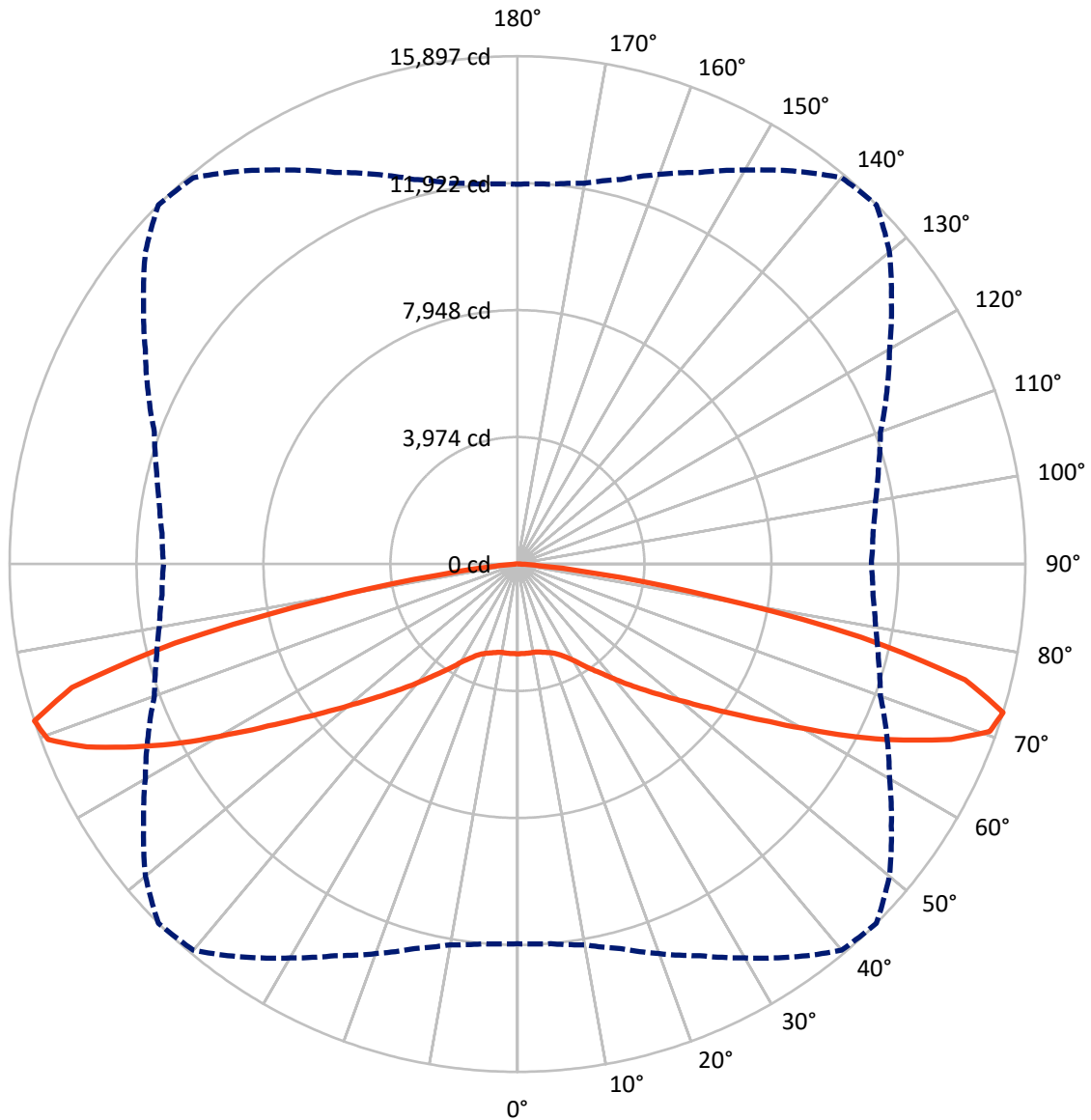
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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	19848.5	0.0	19848.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19848.5	0.0	19848.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39697.0	0.0	39697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	0.7
10°-20°	815.3	2.1
20°-30°	1489.8	3.8
30°-40°	2568.7	6.5
40°-50°	4391.2	11.1
50°-60°	7117.5	17.9
60°-70°	11807.7	29.7
70°-80°	10399.8	26.2
80°-90°	838.5	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°	39697.0	100.0
0°-180°	39697.0	100.0



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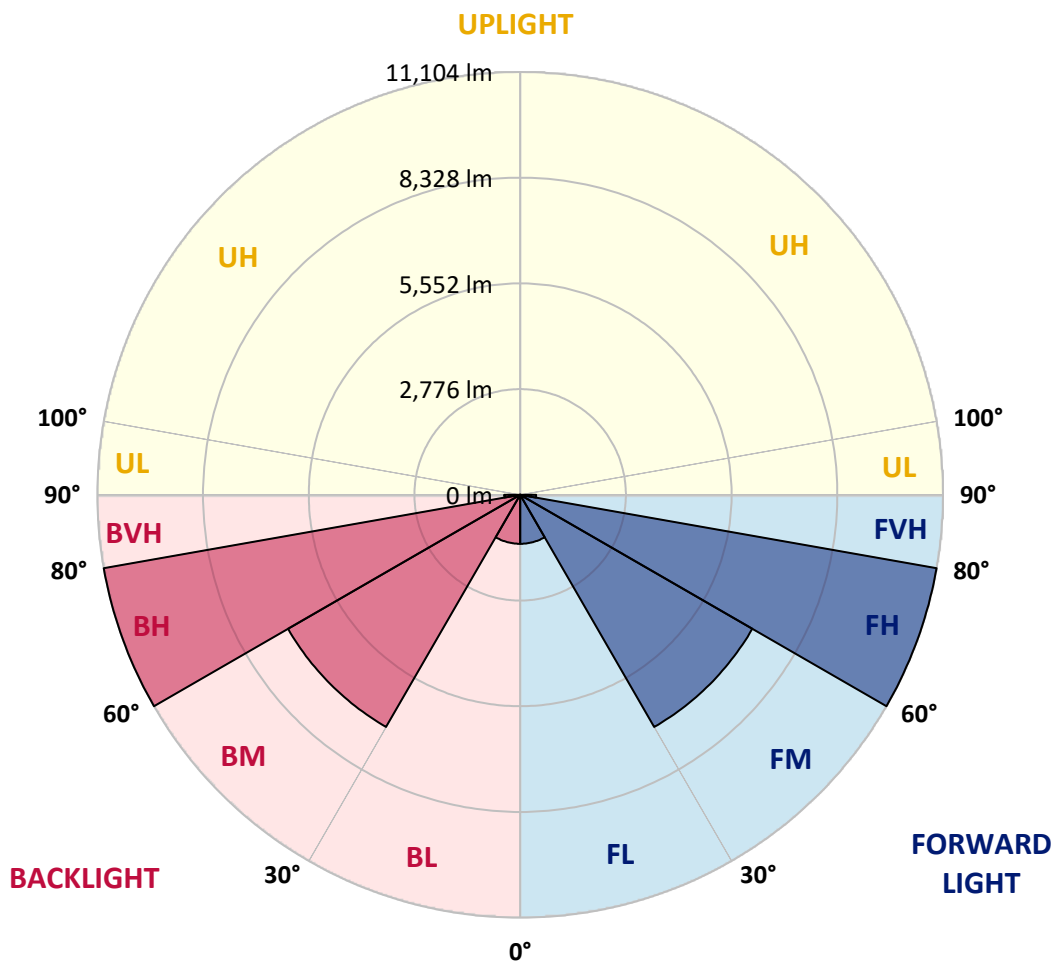
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.8	3.2			
FM	(30°-60°)	7038.7	17.7			
FH	(60°-80°)	11103.8	28.0			G4/12000
FVH	(80°-90°)	419.3	1.1			G3/500
BL	(0°-30°)	1286.8	3.2	B3/2500		
BM	(30°-60°)	7038.7	17.7	B4/8500		
BH	(60°-80°)	11103.8	28.0	B5		G4/12000
BVH	(80°-90°)	419.3	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°	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2
2.5°	2811.2	2813.0	2814.8	2813.0	2813.0	2811.2	2809.3	2811.2	2809.3	2805.7	2807.5
5°	2820.3	2823.9	2823.9	2820.3	2822.1	2820.3	2816.6	2818.4	2814.8	2809.3	2809.3
7.5°	2831.2	2833.0	2833.0	2829.4	2831.2	2827.6	2823.9	2822.1	2818.4	2811.2	2805.7
10°	2847.6	2849.4	2847.6	2843.9	2843.9	2838.5	2829.4	2825.7	2818.4	2807.5	2802.1
12.5°	2865.8	2867.6	2865.8	2862.1	2860.3	2851.2	2843.9	2838.5	2833.0	2823.9	2814.8
15°	2891.3	2894.9	2891.3	2884.0	2878.5	2871.2	2867.6	2869.4	2871.2	2864.0	2854.9
17.5°	2938.6	2940.4	2935.0	2918.6	2911.3	2904.0	2904.0	2907.7	2913.1	2909.5	2900.4
20°	3026.0	3020.5	3007.8	2987.8	2978.7	2965.9	2964.1	2965.9	2965.9	2964.1	2956.8
22.5°	3135.2	3131.6	3115.2	3089.7	3077.0	3069.7	3058.8	3049.7	3047.9	3042.4	3035.1
25°	3266.3	3264.5	3244.5	3222.6	3213.5	3204.4	3195.3	3182.6	3171.7	3158.9	3151.6
27.5°	3433.8	3426.6	3397.4	3386.5	3373.8	3368.3	3355.6	3341.0	3331.9	3315.5	3306.4
30°	3617.7	3617.7	3594.1	3590.4	3590.4	3577.7	3563.1	3537.6	3521.2	3504.9	3499.4
32.5°	3801.6	3803.4	3779.8	3787.1	3792.5	3801.6	3805.3	3796.2	3785.2	3783.4	3772.5
35°	4067.4	4060.2	4036.5	4042.0	4040.1	4038.3	4038.3	4058.3	4062.0	4065.6	4043.8
37.5°	4397.0	4397.0	4373.3	4373.3	4362.4	4351.5	4336.9	4349.7	4369.7	4375.1	4360.6
40°	4773.9	4786.6	4757.5	4755.7	4759.3	4724.7	4708.3	4728.4	4741.1	4763.0	4746.6
42.5°	5218.1	5209.0	5179.9	5176.3	5156.2	5145.3	5130.7	5147.1	5167.2	5181.7	5187.2
45°	5644.2	5636.9	5604.1	5604.1	5584.1	5575.0	5582.3	5609.6	5618.7	5638.7	5658.7
47.5°	6064.8	6055.7	6033.8	6042.9	6044.7	6061.1	6084.8	6110.3	6135.8	6163.1	6172.2
50°	6494.4	6496.3	6472.6	6494.4	6521.8	6567.3	6631.0	6672.9	6725.7	6760.3	6771.2
52.5°	6885.9	6893.2	6918.7	6969.6	7024.3	7113.5	7222.7	7324.7	7412.1	7470.3	7466.7
55°	7355.6	7366.6	7428.5	7515.9	7605.1	7739.8	7901.8	8082.1	8227.8	8311.5	8258.7
57.5°	7956.5	7980.1	8049.3	8167.7	8300.6	8475.4	8697.5	8968.8	9194.5	9307.4	9221.9
60°	8781.2	8795.8	8879.6	9010.7	9170.9	9387.5	9684.3	10048.5	10367.1	10516.4	10418.1
62.5°	9868.2	9895.5	9962.9	10095.8	10259.7	10505.5	10867.8	11322.9	11719.9	11927.4	11705.3
65°	11166.4	11253.8	11310.2	11444.9	11597.9	11858.2	12236.9	12724.9	13150.9	13287.5	13030.8
67.5°	12451.8	12528.3	12626.6	12781.3	12936.1	13229.2	13580.6	14054.0	14521.9	14645.7	14247.0
70°	13014.4	13058.1	13211.0	13422.2	13719.0	14064.9	14470.9	15002.6	15581.6	15683.5	15177.4
72.5°	11887.4	11931.1	12102.2	12460.9	12978.0	13527.8	14236.1	15017.2	15781.8	15896.6	15199.2
75°	8990.6	8919.6	9172.7	9647.9	10345.2	11111.7	12102.2	13221.9	14327.1	14470.9	13638.9
77.5°	4646.4	4637.3	4828.5	5418.4	6250.5	7122.6	8213.2	9478.6	10560.1	10997.0	10319.7
80°	1309.1	1323.7	1414.7	1707.8	2193.9	2823.9	3676.0	4861.3	5746.1	6197.7	5819.0
82.5°	513.4	553.5	588.1	642.7	706.4	799.3	1066.9	1587.7	2130.2	2545.3	2084.7
85°	183.9	196.6	278.6	329.5	335.0	353.2	402.4	469.7	566.2	675.5	555.3
87.5°	69.2	76.5	89.2	147.5	145.7	132.9	162.0	169.3	127.4	116.5	143.8
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°	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2
2.5°	2803.9	2805.7	2805.7	2807.5	2809.3	2809.3	2813.0	2813.0
5°	2805.7	2805.7	2802.1	2803.9	2802.1	2802.1	2803.9	2803.9
7.5°	2802.1	2800.2	2796.6	2794.8	2791.1	2791.1	2791.1	2791.1
10°	2796.6	2794.8	2791.1	2789.3	2787.5	2787.5	2787.5	2787.5
12.5°	2811.2	2805.7	2802.1	2800.2	2800.2	2800.2	2800.2	2800.2
15°	2849.4	2836.7	2827.6	2827.6	2829.4	2833.0	2833.0	2836.7
17.5°	2896.7	2882.2	2873.1	2865.8	2869.4	2874.9	2878.5	2882.2
20°	2953.2	2945.9	2933.2	2925.9	2925.9	2933.2	2936.8	2938.6
22.5°	3031.5	3026.0	3020.5	3011.4	3011.4	3015.1	3022.4	3022.4
25°	3148.0	3144.4	3140.7	3133.4	3131.6	3131.6	3135.2	3138.9
27.5°	3293.7	3295.5	3291.8	3290.0	3284.5	3282.7	3288.2	3286.4
30°	3488.5	3497.6	3506.7	3499.4	3490.3	3484.8	3479.4	3472.1
32.5°	3752.5	3741.5	3734.3	3721.5	3705.1	3690.6	3679.6	3666.9
35°	4001.9	3983.7	3976.4	3987.3	3985.5	3976.4	3963.7	3952.7
37.5°	4307.8	4304.1	4307.8	4327.8	4324.2	4333.3	4307.8	4306.0
40°	4693.8	4697.4	4722.9	4746.6	4759.3	4772.1	4757.5	4742.9
42.5°	5141.7	5139.8	5148.9	5181.7	5203.6	5218.1	5187.2	5183.5
45°	5615.0	5602.3	5609.6	5636.9	5658.7	5675.1	5640.5	5640.5
47.5°	6135.8	6113.9	6090.2	6121.2	6133.9	6144.9	6117.6	6108.5
50°	6716.6	6671.1	6620.1	6632.8	6632.8	6629.2	6594.6	6592.8
52.5°	7382.9	7299.2	7206.3	7171.7	7151.7	7129.9	7069.8	7040.7
55°	8149.5	8023.8	7878.2	7789.0	7741.6	7681.5	7581.4	7554.1
57.5°	9045.2	8848.6	8597.4	8488.1	8382.5	8284.2	8173.1	8142.2
60°	10106.7	9817.2	9484.0	9281.9	9167.2	9072.6	8957.9	8952.4
62.5°	11290.2	10833.2	10456.3	10274.2	10190.5	10106.7	9997.5	10012.0
65°	12493.7	12016.6	11663.4	11515.9	11437.7	11368.5	11259.2	11275.6
67.5°	13680.8	13242.0	12854.2	12703.0	12615.6	12528.3	12429.9	12446.3
70°	14532.8	13988.5	13551.5	13216.5	13007.1	12770.4	12617.5	12579.2
72.5°	14288.9	13449.5	12755.8	12091.3	11701.7	11384.9	11170.0	11077.2
75°	12366.2	11219.2	10327.0	9511.3	9052.5	8679.3	8408.0	8238.7
77.5°	9183.6	7894.6	6840.4	5900.9	5158.0	4659.2	4307.8	4080.2
80°	5027.0	3823.5	2794.8	1964.5	1443.8	1199.8	1059.6	992.3
82.5°	1565.8	1010.5	744.7	642.7	597.2	571.7	529.8	462.5
85°	498.9	437.0	406.0	387.8	369.6	322.3	222.1	202.1
87.5°	193.0	198.5	196.6	185.7	189.4	136.6	109.2	96.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)