

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: P193436

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193436
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-08-LED-E1-5WQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41002 lumens
Efficiency: N/A
Efficacy: 92.1 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

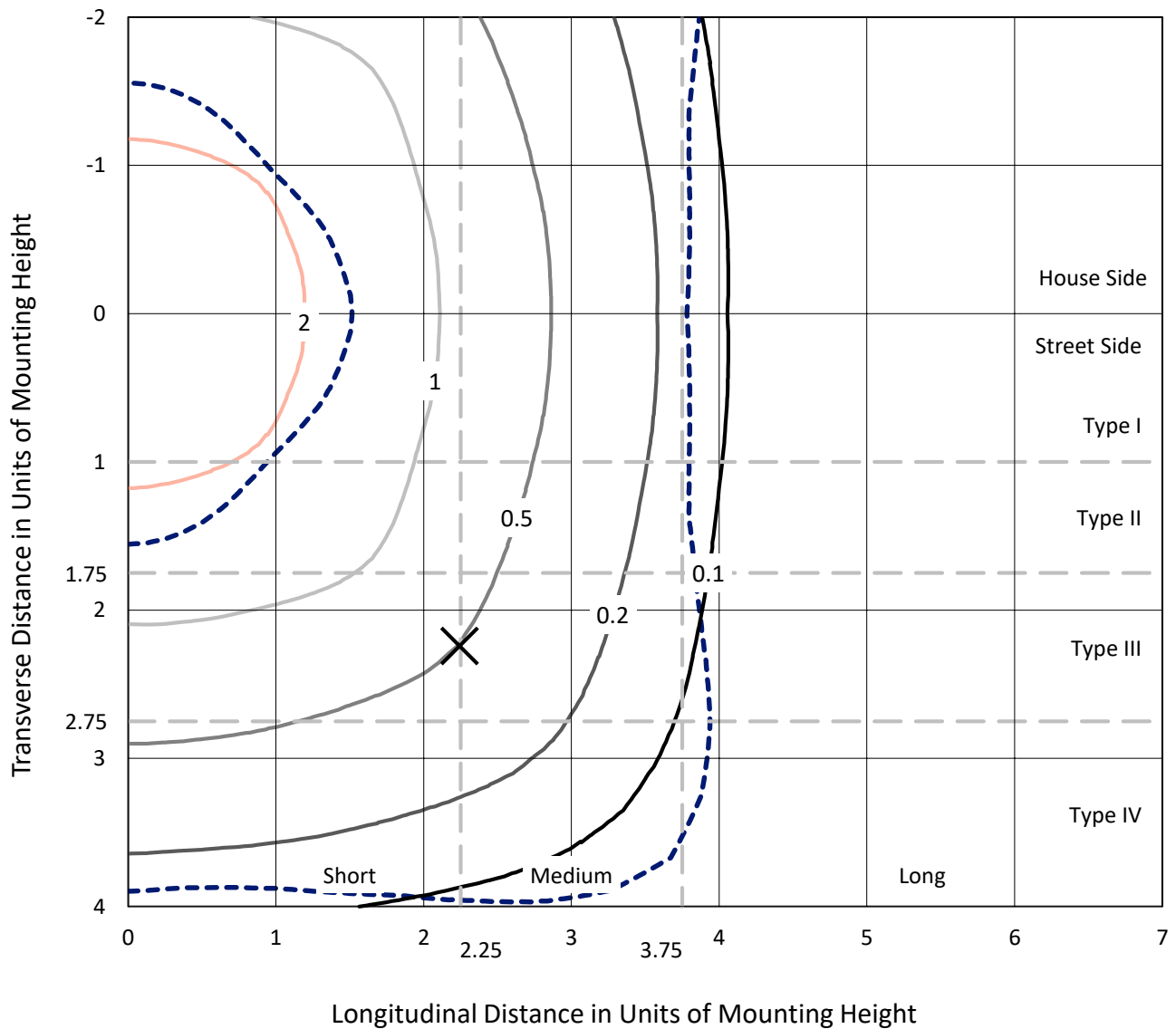
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

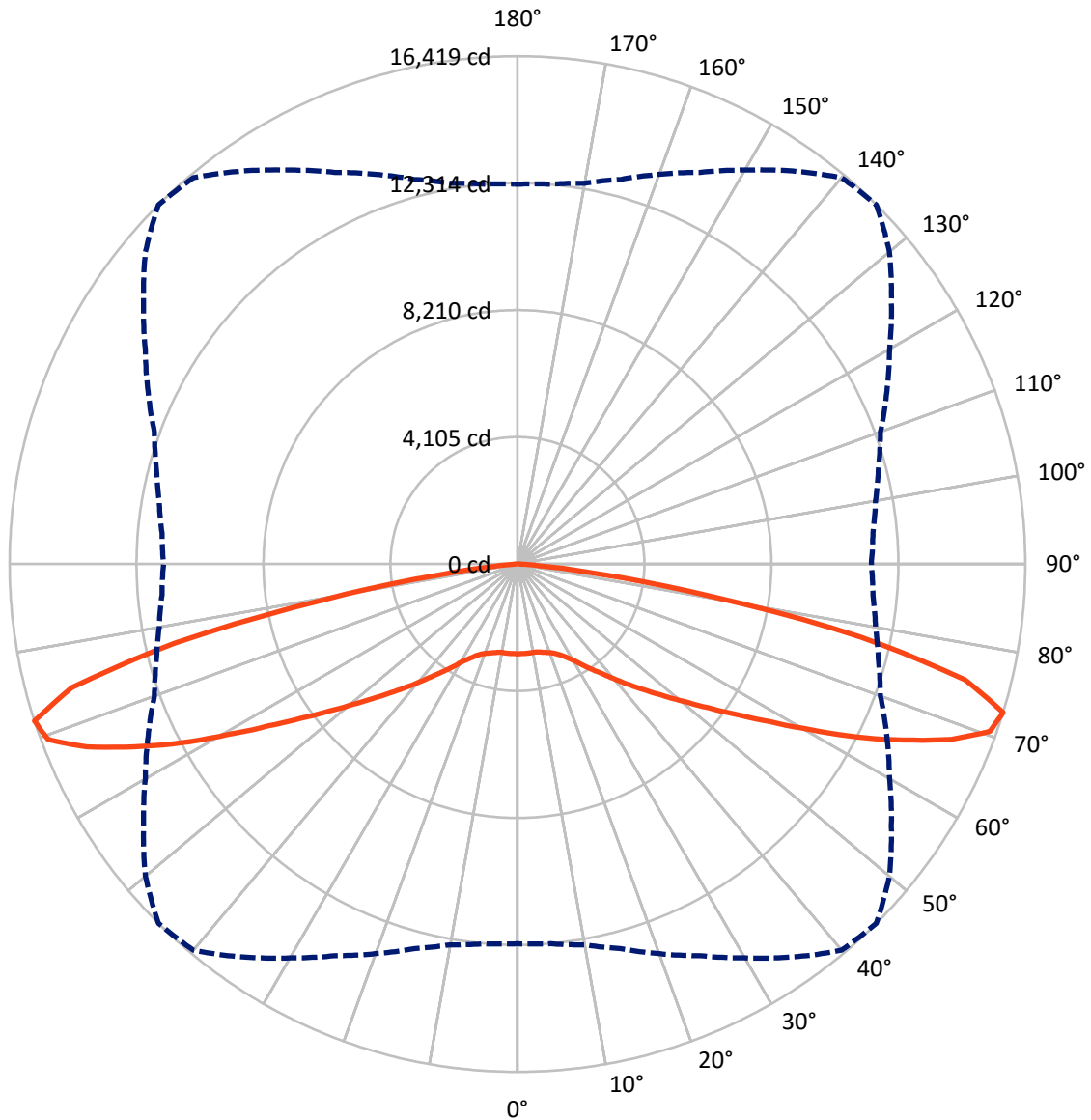
× Max cd
 - - - 1/2 Max cd



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	20501.0	0.0	20501.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20501.0	0.0	20501.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41002.0	0.0	41002.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	0.7
10°-20°	842.1	2.1
20°-30°	1538.8	3.8
30°-40°	2653.2	6.5
40°-50°	4535.5	11.1
50°-60°	7351.5	17.9
60°-70°	12195.9	29.7
70°-80°	10741.7	26.2
80°-90°	866.1	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°	41002.0	100.0
0°-180°	41002.0	100.0



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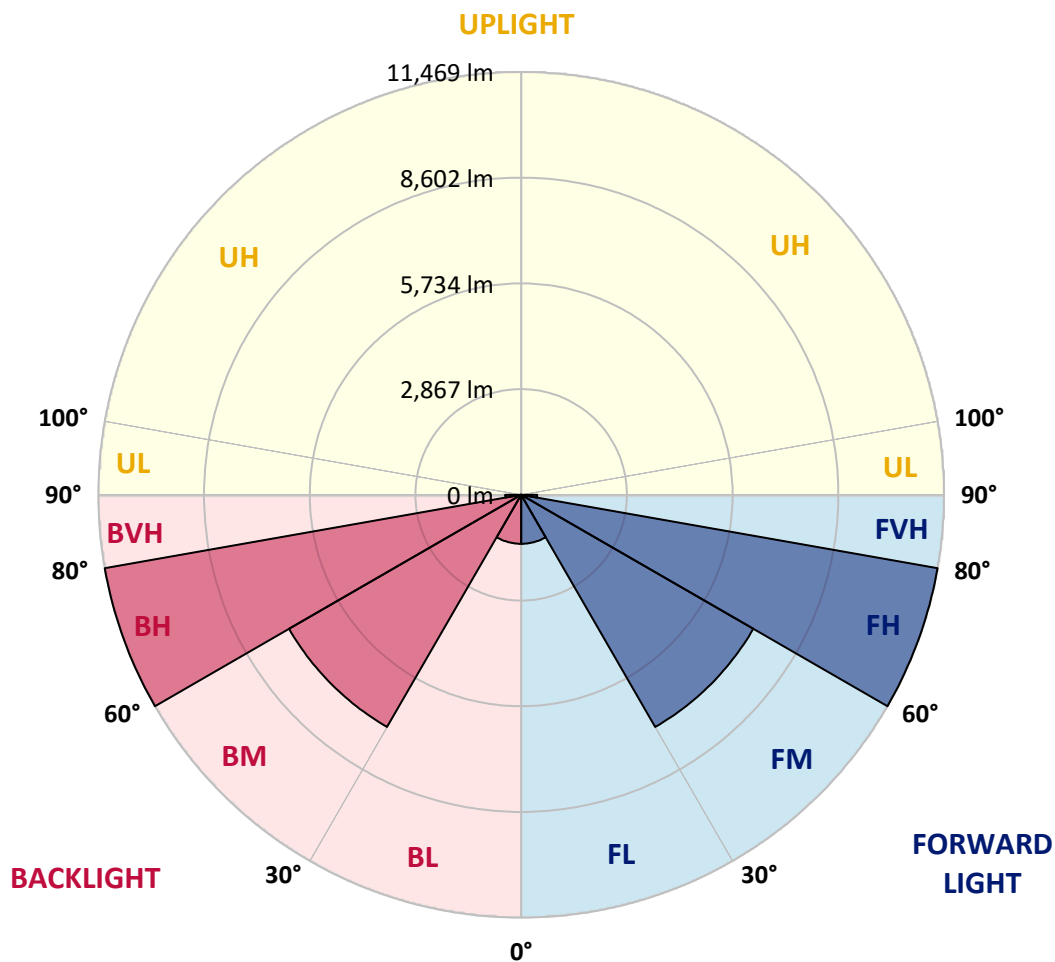
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.1	3.2			
FM	(30°-60°)	7270.1	17.7			
FH	(60°-80°)	11468.8	28.0			G4/12000
FVH	(80°-90°)	433.0	1.1			G3/500
BL	(0°-30°)	1329.1	3.2	B3/2500		
BM	(30°-60°)	7270.1	17.7	B4/8500		
BH	(60°-80°)	11468.8	28.0	B5		G4/12000
BVH	(80°-90°)	433.0	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°	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6
2.5°	2903.6	2905.5	2907.3	2905.5	2905.5	2903.6	2901.7	2903.6	2901.7	2897.9	2899.8
5°	2913.0	2916.7	2916.7	2913.0	2914.9	2913.0	2909.2	2911.1	2907.3	2901.7	2901.7
7.5°	2924.3	2926.1	2926.1	2922.4	2924.3	2920.5	2916.7	2914.9	2911.1	2903.6	2897.9
10°	2941.2	2943.1	2941.2	2937.4	2937.4	2931.8	2922.4	2918.6	2911.1	2899.8	2894.2
12.5°	2960.0	2961.9	2960.0	2956.2	2954.4	2945.0	2937.4	2931.8	2926.1	2916.7	2907.3
15°	2986.3	2990.1	2986.3	2978.8	2973.2	2965.6	2961.9	2963.8	2965.6	2958.1	2948.7
17.5°	3035.2	3037.1	3031.5	3014.5	3007.0	2999.5	2999.5	3003.2	3008.9	3005.1	2995.7
20°	3125.5	3119.8	3106.7	3086.0	3076.6	3063.4	3061.5	3063.4	3063.4	3061.5	3054.0
22.5°	3238.3	3234.6	3217.6	3191.3	3178.1	3170.6	3159.3	3149.9	3148.1	3142.4	3134.9
25°	3373.7	3371.8	3351.2	3328.6	3319.2	3309.8	3300.4	3287.2	3275.9	3262.8	3255.2
27.5°	3546.7	3539.2	3509.1	3497.8	3484.7	3479.0	3465.9	3450.8	3441.4	3424.5	3415.1
30°	3736.7	3736.7	3712.2	3708.5	3708.5	3695.3	3680.2	3653.9	3637.0	3620.1	3614.4
32.5°	3926.6	3928.5	3904.0	3911.6	3917.2	3926.6	3930.4	3921.0	3909.7	3907.8	3896.5
35°	4201.2	4193.6	4169.2	4174.8	4173.0	4171.1	4171.1	4191.8	4195.5	4199.3	4176.7
37.5°	4541.5	4541.5	4517.1	4517.1	4505.8	4494.5	4479.5	4492.6	4513.3	4519.0	4503.9
40°	4930.8	4944.0	4913.9	4912.0	4915.8	4880.0	4863.1	4883.8	4897.0	4919.5	4902.6
42.5°	5389.7	5380.3	5350.2	5346.4	5325.7	5314.5	5299.4	5316.3	5337.0	5352.1	5357.7
45°	5829.7	5822.2	5788.4	5788.4	5767.7	5758.3	5765.8	5794.0	5803.4	5824.1	5844.8
47.5°	6264.1	6254.7	6232.2	6241.6	6243.4	6260.4	6284.8	6311.1	6337.5	6365.7	6375.1
50°	6707.9	6709.8	6685.4	6707.9	6736.2	6783.2	6849.0	6892.2	6946.8	6982.5	6993.8
52.5°	7112.3	7119.8	7146.1	7198.8	7255.2	7347.3	7460.2	7565.5	7655.7	7715.9	7712.2
55°	7597.4	7608.7	7672.7	7762.9	7855.1	7994.2	8161.6	8347.8	8498.2	8584.7	8530.2
57.5°	8218.0	8242.5	8313.9	8436.2	8573.5	8754.0	8983.4	9263.6	9496.8	9613.4	9525.0
60°	9069.9	9085.0	9171.5	9306.9	9472.4	9696.1	10002.7	10378.8	10707.9	10862.1	10760.5
62.5°	10192.6	10220.8	10290.4	10427.7	10596.9	10850.8	11225.0	11695.2	12105.1	12319.5	12090.1
65°	11533.5	11623.7	11682.0	11821.2	11979.1	12248.1	12639.2	13143.2	13583.3	13724.3	13459.1
67.5°	12861.1	12940.1	13041.7	13201.5	13361.4	13664.1	14027.1	14516.0	14999.3	15127.2	14715.4
70°	13442.2	13487.3	13645.3	13863.5	14170.0	14527.3	14946.7	15495.8	16093.8	16199.1	15676.3
72.5°	12278.2	12323.3	12500.1	12870.5	13404.6	13972.5	14704.1	15510.8	16300.7	16419.1	15698.9
75°	9286.2	9212.8	9474.2	9965.1	10685.3	11477.0	12500.1	13656.6	14798.1	14946.7	14087.2
77.5°	4799.2	4789.8	4987.2	5596.5	6455.9	7356.7	8483.2	9790.2	10907.2	11358.6	10659.0
80°	1352.1	1367.2	1461.2	1764.0	2266.1	2916.7	3796.8	5021.1	5935.0	6401.4	6010.3
82.5°	530.3	571.7	607.4	663.8	729.7	825.6	1102.0	1639.8	2200.3	2629.0	2153.2
85°	189.9	203.1	287.7	340.4	346.0	364.8	415.6	485.2	584.9	697.7	573.6
87.5°	71.5	79.0	92.1	152.3	150.4	137.3	167.4	174.9	131.6	120.4	148.6
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°	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6	2903.6
2.5°	2896.1	2897.9	2897.9	2899.8	2901.7	2901.7	2905.5	2905.5
5°	2897.9	2897.9	2894.2	2896.1	2894.2	2894.2	2896.1	2896.1
7.5°	2894.2	2892.3	2888.5	2886.7	2882.9	2882.9	2882.9	2882.9
10°	2888.5	2886.7	2882.9	2881.0	2879.1	2879.1	2879.1	2879.1
12.5°	2903.6	2897.9	2894.2	2892.3	2892.3	2892.3	2892.3	2892.3
15°	2943.1	2929.9	2920.5	2920.5	2922.4	2926.1	2926.1	2929.9
17.5°	2992.0	2976.9	2967.5	2960.0	2963.8	2969.4	2973.2	2976.9
20°	3050.3	3042.7	3029.6	3022.1	3022.1	3029.6	3033.3	3035.2
22.5°	3131.1	3125.5	3119.8	3110.4	3110.4	3114.2	3121.7	3121.7
25°	3251.5	3247.7	3244.0	3236.4	3234.6	3234.6	3238.3	3242.1
27.5°	3401.9	3403.8	3400.0	3398.2	3392.5	3390.6	3396.3	3394.4
30°	3603.1	3612.5	3622.0	3614.4	3605.0	3599.4	3593.7	3586.2
32.5°	3875.8	3864.5	3857.0	3843.9	3826.9	3811.9	3800.6	3787.4
35°	4133.5	4114.7	4107.1	4118.4	4116.5	4107.1	4094.0	4082.7
37.5°	4449.4	4445.6	4449.4	4470.1	4466.3	4475.7	4449.4	4447.5
40°	4848.1	4851.8	4878.2	4902.6	4915.8	4928.9	4913.9	4898.8
42.5°	5310.7	5308.8	5318.2	5352.1	5374.6	5389.7	5357.7	5353.9
45°	5799.6	5786.5	5794.0	5822.2	5844.8	5861.7	5826.0	5826.0
47.5°	6337.5	6314.9	6290.5	6322.4	6335.6	6346.9	6318.7	6309.3
50°	6937.4	6890.4	6837.7	6850.9	6850.9	6847.1	6811.4	6809.5
52.5°	7625.7	7539.1	7443.2	7407.5	7386.8	7364.3	7302.2	7272.1
55°	8417.4	8287.6	8137.2	8045.0	7996.1	7934.1	7830.6	7802.4
57.5°	9342.6	9139.5	8880.0	8767.2	8658.1	8556.5	8441.8	8409.8
60°	10439.0	10140.0	9795.8	9587.1	9468.6	9370.8	9252.3	9246.7
62.5°	11661.3	11189.3	10800.0	10612.0	10525.5	10439.0	10326.1	10341.2
65°	12904.4	12411.7	12046.8	11894.5	11813.7	11742.2	11629.4	11646.3
67.5°	14130.5	13677.3	13276.7	13120.6	13030.4	12940.1	12838.6	12855.5
70°	15010.6	14448.3	13997.0	13651.0	13434.7	13190.2	13032.3	12992.8
72.5°	14758.6	13891.7	13175.2	12488.8	12086.3	11759.1	11537.2	11441.3
75°	12772.7	11588.0	10666.5	9824.0	9350.1	8964.6	8684.4	8509.5
77.5°	9485.5	8154.1	7065.2	6094.9	5327.6	4812.3	4449.4	4214.3
80°	5192.2	3949.2	2886.7	2029.1	1491.3	1239.3	1094.5	1024.9
82.5°	1617.3	1043.7	769.1	663.8	616.8	590.5	547.2	477.7
85°	515.3	451.3	419.4	400.6	381.8	332.9	229.4	208.7
87.5°	199.3	205.0	203.1	191.8	195.6	141.0	112.8	99.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)