

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: P191604

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191604
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: GLEON-AF-06-LED-E1-5MQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30217 lumens
Efficiency: N/A
Efficacy: 121.4 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

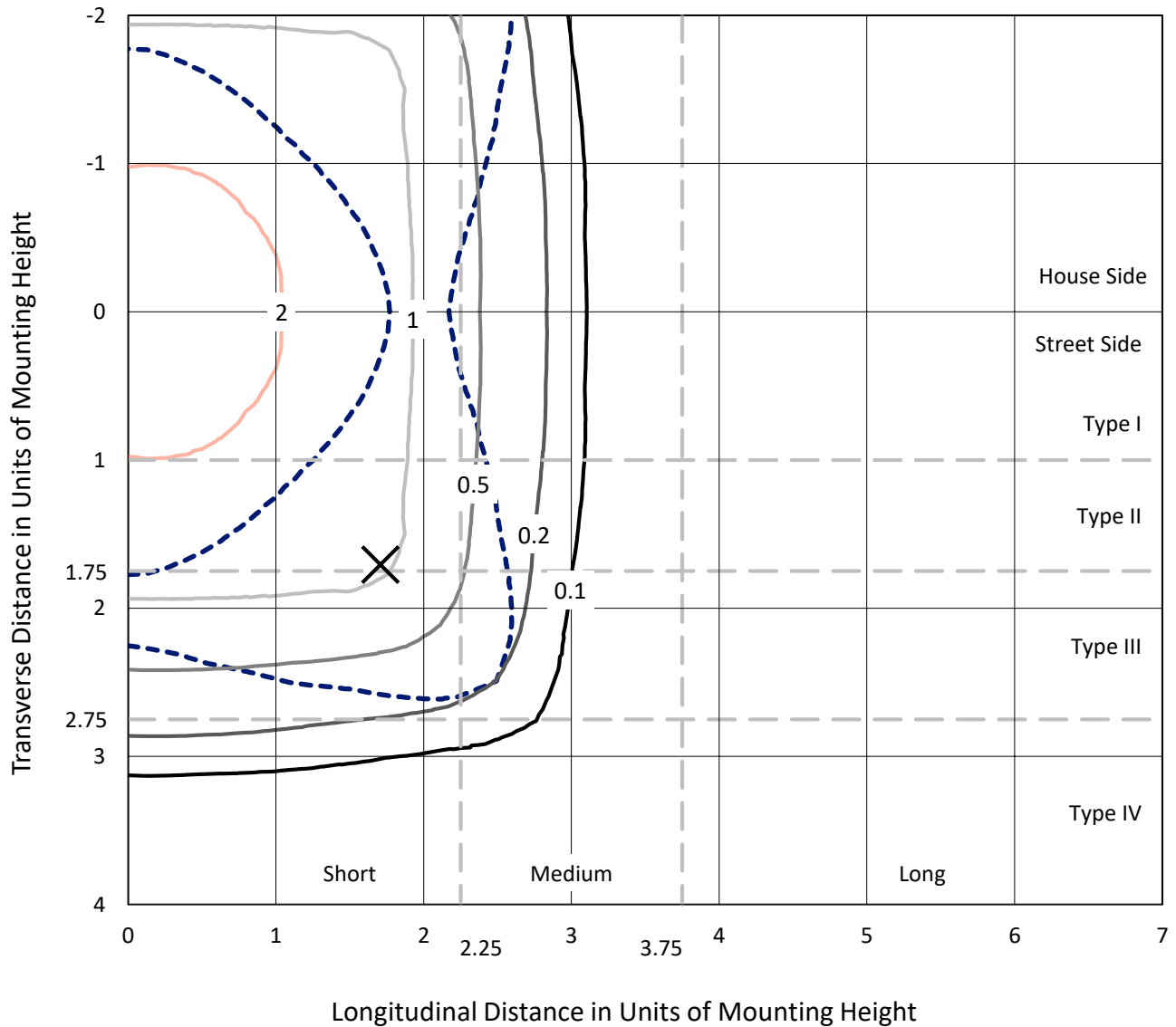


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Iso-Footcandle Lines of Horizontal Illumination

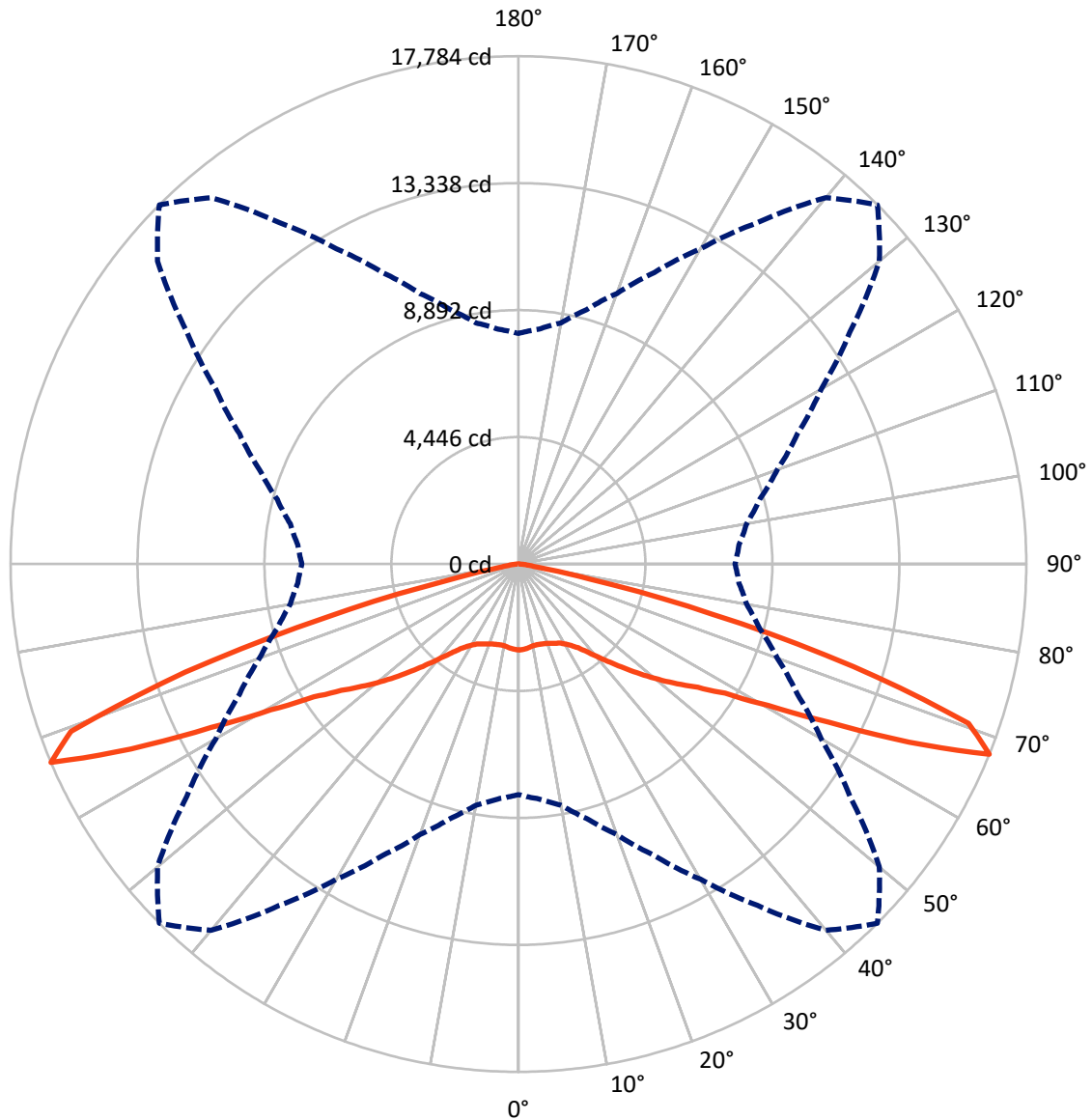
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 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	15108.5	0.0	15108.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15108.5	0.0	15108.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30217.0	0.0	30217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	0.9
10°-20°	817.8	2.7
20°-30°	1390.3	4.6
30°-40°	2272.7	7.5
40°-50°	4057.3	13.4
50°-60°	6840.7	22.6
60°-70°	10615.7	35.1
70°-80°	3729.9	12.3
80°-90°	210.8	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°	30217.0	100.0
0°-180°	30217.0	100.0



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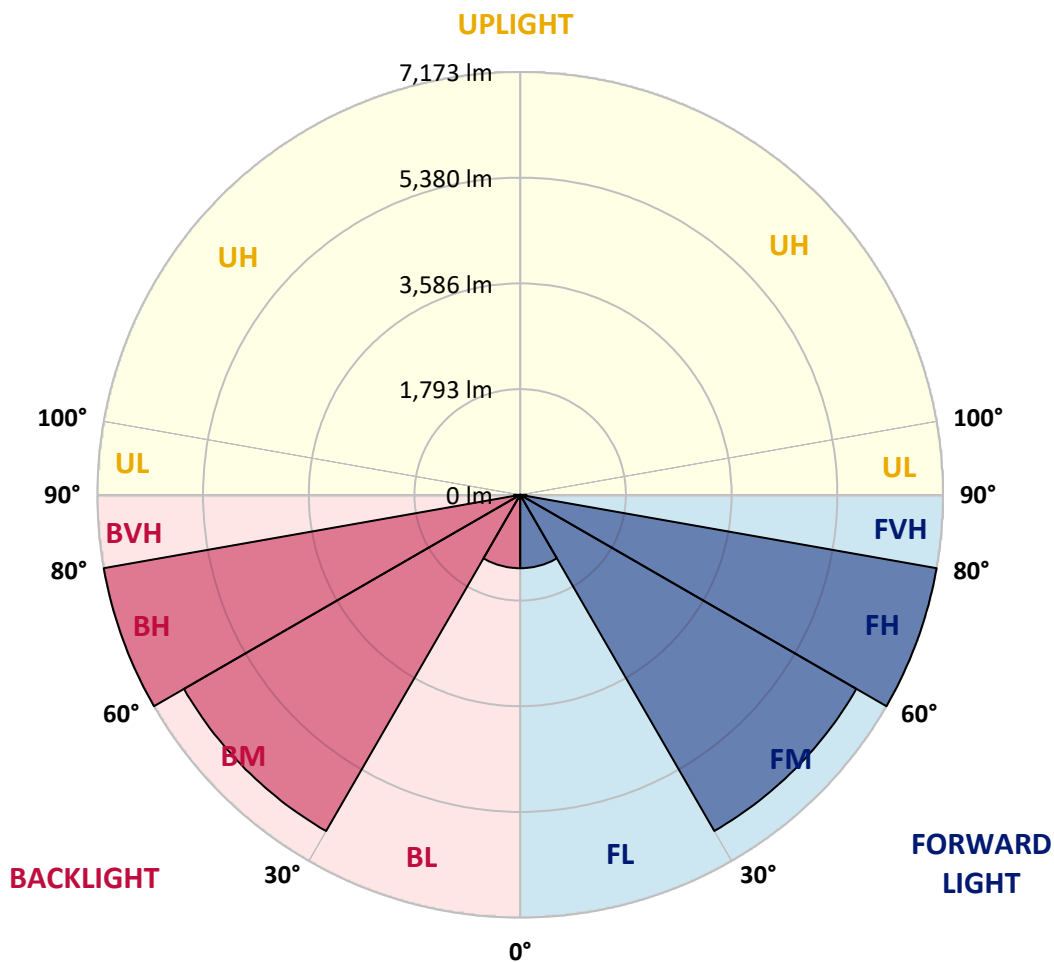
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.0	4.1			
FM	(30°-60°)	6585.3	21.8			
FH	(60°-80°)	7172.8	23.7			G3/7500
FVH	(80°-90°)	105.4	0.3			G2/225
BL	(0°-30°)	1245.0	4.1	B3/2500		
BM	(30°-60°)	6585.3	21.8	B4/8500		
BH	(60°-80°)	7172.8	23.7	B5		G3/7500
BVH	(80°-90°)	105.4	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°	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3
2.5°	3000.1	3002.9	3002.9	3002.9	3001.5	3001.5	2998.7	3001.5	3000.1	2996.0	2997.4
5°	2975.1	2977.9	2977.9	2976.5	2980.7	2979.3	2975.1	2977.9	2976.5	2973.7	2975.1
7.5°	2939.0	2943.2	2943.2	2941.8	2945.9	2944.6	2941.8	2943.2	2943.2	2939.0	2939.0
10°	2898.7	2901.5	2901.5	2900.1	2907.0	2907.0	2905.6	2909.8	2911.2	2907.0	2904.3
12.5°	2861.2	2865.3	2865.3	2870.9	2877.9	2880.6	2887.6	2893.1	2898.7	2897.3	2891.7
15°	2838.9	2841.7	2847.3	2854.2	2865.3	2875.1	2886.2	2898.7	2909.8	2912.6	2904.3
17.5°	2825.0	2829.2	2837.6	2847.3	2862.6	2879.2	2895.9	2912.6	2927.9	2933.4	2923.7
20°	2820.9	2823.7	2832.0	2848.7	2869.5	2894.5	2918.1	2937.6	2958.4	2965.4	2958.4
22.5°	2829.2	2834.8	2844.5	2864.0	2891.7	2923.7	2951.5	2977.9	3004.3	3016.8	3007.1
25°	2866.7	2872.3	2884.8	2909.8	2940.4	2973.7	3005.7	3036.3	3059.9	3072.4	3065.4
27.5°	2936.2	2943.2	2958.4	2983.5	3016.8	3052.9	3087.7	3112.7	3132.1	3136.3	3128.0
30°	3040.4	3055.7	3073.8	3101.6	3140.5	3171.1	3205.8	3228.0	3251.7	3251.7	3244.7
32.5°	3203.0	3218.3	3237.8	3264.2	3294.7	3328.1	3358.7	3378.1	3403.1	3404.5	3387.8
35°	3446.2	3453.1	3469.8	3486.5	3514.3	3543.5	3569.9	3582.4	3603.2	3604.6	3589.3
37.5°	3767.2	3768.6	3779.7	3785.3	3810.3	3842.2	3867.2	3875.6	3895.0	3892.3	3877.0
40°	4141.0	4147.9	4152.1	4160.4	4186.8	4217.4	4243.8	4248.0	4268.8	4264.7	4245.2
42.5°	4573.2	4575.9	4599.6	4612.1	4637.1	4652.4	4685.7	4689.9	4714.9	4703.8	4681.5
45°	5058.1	5083.1	5105.4	5130.4	5156.8	5174.9	5201.3	5195.7	5212.4	5195.7	5183.2
47.5°	5568.1	5586.2	5636.2	5675.1	5718.2	5733.5	5771.0	5754.3	5771.0	5747.4	5743.2
50°	6129.5	6161.5	6204.5	6249.0	6294.9	6319.9	6368.5	6347.7	6369.9	6347.7	6335.2
52.5°	6682.6	6690.9	6785.4	6850.7	6914.6	6943.8	6973.0	6963.3	6964.6	6963.3	6950.8
55°	7207.8	7227.3	7321.8	7410.7	7521.9	7603.9	7653.9	7648.3	7635.8	7623.3	7602.5
57.5°	7799.8	7819.2	7927.6	8037.4	8163.9	8280.6	8382.0	8486.3	8526.6	8537.7	8491.8
60°	8600.2	8598.8	8743.3	8876.7	9057.4	9231.1	9453.4	9679.9	9939.8	10060.7	9900.9
62.5°	9414.5	9447.9	9656.3	9892.5	10264.9	10627.6	11037.5	11440.5	11851.9	12186.7	11831.0
65°	9317.2	9445.1	9755.0	10289.9	10977.8	11794.9	12678.7	13613.9	14458.7	15039.6	14387.9
67.5°	8074.9	8257.0	8572.4	9222.7	10082.9	11261.3	12745.4	14594.9	16744.6	17784.0	16495.9
70°	5853.0	6058.6	6389.4	7024.4	7876.2	8996.2	10608.2	12828.7	15674.6	16722.4	15303.6
72.5°	2912.6	3023.8	3228.0	3632.4	4277.2	5186.0	6647.8	8782.2	11300.2	12261.8	10965.3
75°	989.4	1040.8	1075.5	1207.6	1411.8	1769.0	2495.7	3839.4	5857.1	7021.6	5773.8
77.5°	571.1	572.5	596.1	619.8	654.5	693.4	790.7	1038.0	1795.4	2549.9	1857.9
80°	369.6	368.2	387.7	405.8	429.4	448.8	454.4	480.8	554.4	657.3	587.8
82.5°	191.8	215.4	258.5	282.1	326.6	334.9	323.8	314.0	332.1	344.6	353.0
85°	105.6	91.7	137.6	177.9	197.3	200.1	200.1	189.0	195.9	191.8	208.4
87.5°	48.6	44.5	54.2	87.5	93.1	79.2	83.4	73.6	52.8	51.4	58.4
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°	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3	3011.3
2.5°	2997.4	2998.7	2998.7	3002.9	3004.3	3007.1	3009.9	3011.3
5°	2973.7	2977.9	2975.1	2979.3	2979.3	2982.1	2982.1	2983.5
7.5°	2939.0	2943.2	2943.2	2943.2	2941.8	2945.9	2945.9	2945.9
10°	2902.9	2905.6	2904.3	2901.5	2898.7	2902.9	2901.5	2900.1
12.5°	2891.7	2884.8	2879.2	2876.5	2870.9	2872.3	2868.1	2868.1
15°	2898.7	2886.2	2876.5	2872.3	2866.7	2864.0	2861.2	2862.6
17.5°	2916.8	2901.5	2889.0	2882.0	2875.1	2870.9	2865.3	2866.7
20°	2948.7	2930.7	2912.6	2898.7	2886.2	2879.2	2875.1	2873.7
22.5°	2996.0	2969.6	2943.2	2922.3	2905.6	2895.9	2891.7	2889.0
25°	3050.2	3021.0	2990.4	2966.8	2950.1	2937.6	2929.3	2929.3
27.5°	3118.3	3094.6	3066.8	3039.0	3023.8	3011.3	3005.7	3002.9
30°	3232.2	3210.0	3187.7	3161.3	3141.9	3129.4	3119.6	3111.3
32.5°	3378.1	3360.0	3342.0	3322.5	3304.5	3287.8	3272.5	3265.5
35°	3583.8	3569.9	3557.4	3535.1	3528.2	3518.5	3510.1	3503.2
37.5°	3867.2	3861.7	3861.7	3838.1	3832.5	3828.3	3820.0	3821.4
40°	4239.7	4245.2	4238.3	4229.9	4225.8	4214.6	4214.6	4224.4
42.5°	4680.2	4684.3	4699.6	4685.7	4701.0	4687.1	4678.8	4685.7
45°	5191.5	5206.8	5237.4	5223.5	5233.2	5209.6	5180.4	5181.8
47.5°	5765.4	5779.3	5791.8	5782.1	5783.5	5744.6	5705.7	5695.9
50°	6361.6	6367.1	6374.1	6360.2	6363.0	6319.9	6275.4	6276.8
52.5°	6950.8	6977.2	7004.9	6967.4	6959.1	6910.5	6847.9	6822.9
55°	7624.7	7662.2	7630.3	7565.0	7499.6	7434.3	7352.3	7338.4
57.5°	8455.7	8391.8	8291.7	8168.0	8077.7	7986.0	7902.6	7867.9
60°	9611.8	9371.4	9190.8	9007.4	8892.0	8779.5	8669.7	8653.0
62.5°	11246.0	10830.5	10470.6	10091.2	9781.4	9539.6	9346.4	9292.2
65°	13294.3	12311.8	11460.0	10665.1	9974.5	9453.4	9125.5	8980.9
67.5°	14175.3	12235.4	10774.9	9646.6	8743.3	8112.5	7758.1	7581.6
70°	12456.3	10146.8	8558.5	7428.8	6606.1	5933.6	5612.6	5423.6
72.5°	8569.6	6454.7	5104.0	4166.0	3508.7	2945.9	2723.6	2706.9
75°	3847.8	2548.5	1756.4	1353.5	1139.5	990.8	944.9	910.2
77.5°	1076.9	796.2	710.1	664.2	619.8	568.3	548.9	553.1
80°	523.9	494.7	475.2	446.1	405.8	362.7	343.2	351.6
82.5°	347.4	343.2	355.7	334.9	276.5	234.8	197.3	180.6
85°	211.2	214.0	218.2	219.6	186.2	130.6	88.9	100.1
87.5°	83.4	95.9	104.2	108.4	101.4	62.5	50.0	51.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)