

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: P193346

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193346
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-08-LED-E1-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 33039 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 334
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

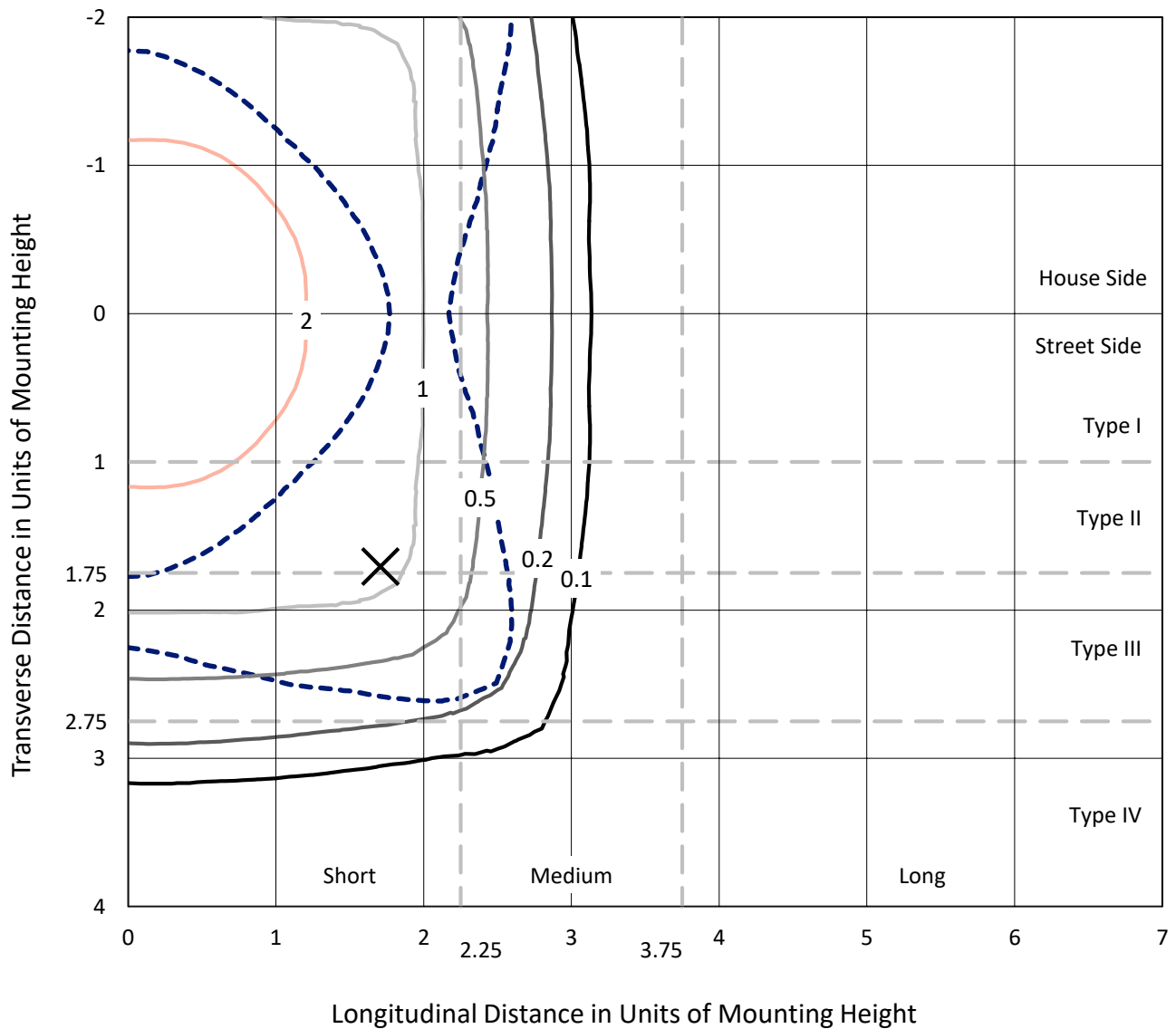


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

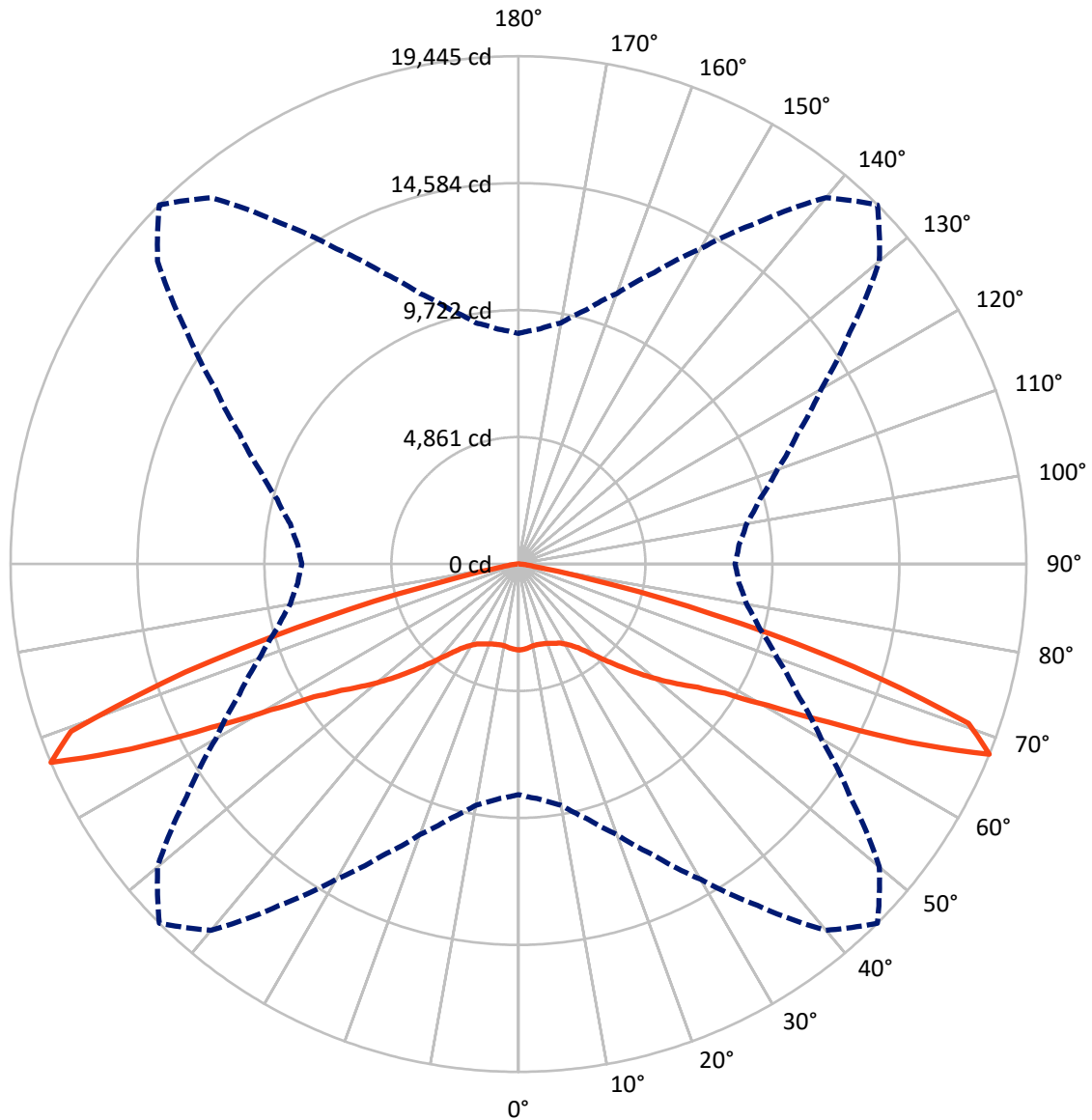


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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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	16519.5	0.0	16519.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16519.5	0.0	16519.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33039.0	0.0	33039.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	0.9
10°-20°	894.2	2.7
20°-30°	1520.2	4.6
30°-40°	2485.0	7.5
40°-50°	4436.2	13.4
50°-60°	7479.5	22.6
60°-70°	11607.1	35.1
70°-80°	4078.2	12.3
80°-90°	230.5	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°	33039.0	100.0
0°-180°	33039.0	100.0



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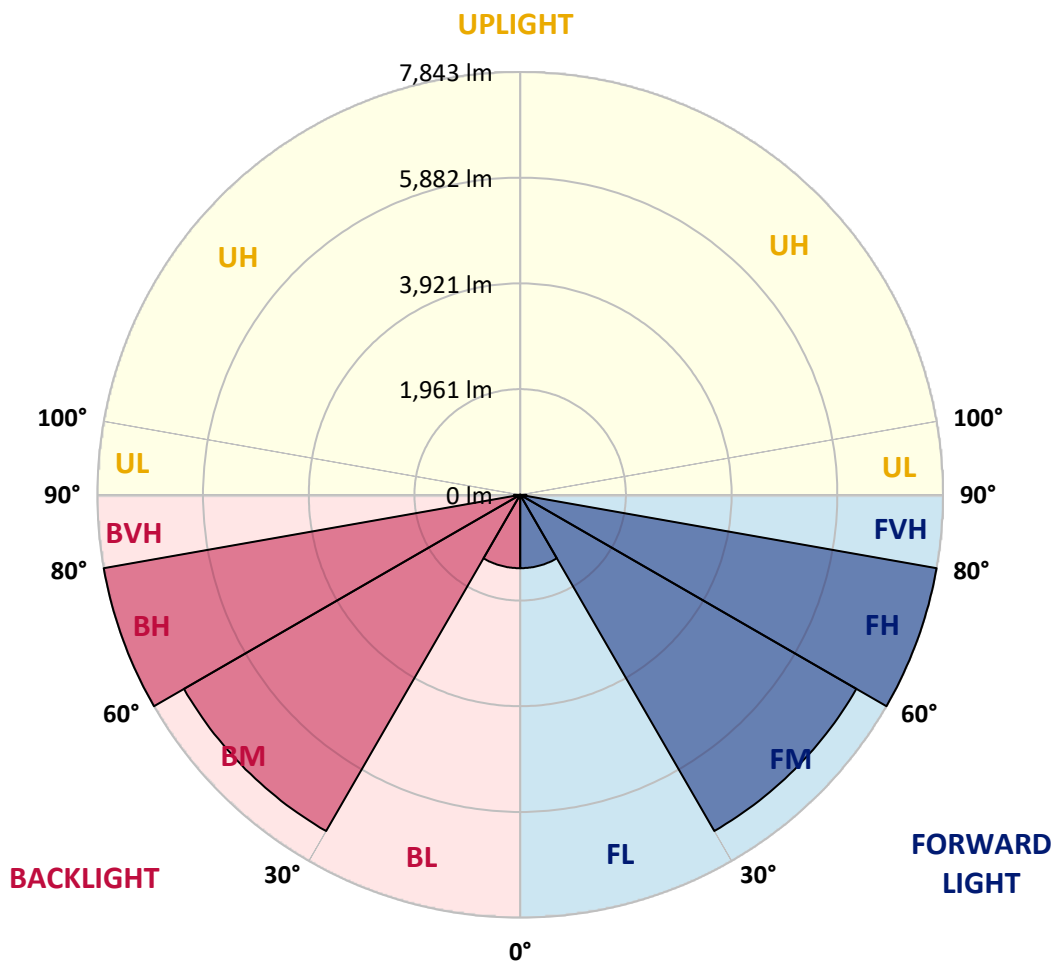
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1361.3	4.1			
FM	(30°-60°)	7200.3	21.8			
FH	(60°-80°)	7842.7	23.7			G4/12000
FVH	(80°-90°)	115.2	0.3			G2/225
BL	(0°-30°)	1361.3	4.1	B3/2500		
BM	(30°-60°)	7200.3	21.8	B4/8500		
BH	(60°-80°)	7842.7	23.7	B5		G4/12000
BVH	(80°-90°)	115.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5
2.5°	3280.3	3283.4	3283.4	3283.4	3281.8	3281.8	3278.8	3281.8	3280.3	3275.8	3277.3
5°	3253.0	3256.0	3256.0	3254.5	3259.0	3257.5	3253.0	3256.0	3254.5	3251.5	3253.0
7.5°	3213.5	3218.0	3218.0	3216.5	3221.1	3219.5	3216.5	3218.0	3218.0	3213.5	3213.5
10°	3169.4	3172.4	3172.4	3170.9	3178.5	3178.5	3177.0	3181.6	3183.1	3178.5	3175.5
12.5°	3128.4	3132.9	3132.9	3139.0	3146.6	3149.7	3157.3	3163.3	3169.4	3167.9	3161.8
15°	3104.1	3107.1	3113.2	3120.8	3132.9	3143.6	3155.7	3169.4	3181.6	3184.6	3175.5
17.5°	3088.9	3093.4	3102.6	3113.2	3129.9	3148.1	3166.4	3184.6	3201.3	3207.4	3196.8
20°	3084.3	3087.4	3096.5	3114.7	3137.5	3164.8	3190.7	3211.9	3234.7	3242.3	3234.7
22.5°	3093.4	3099.5	3110.2	3131.4	3161.8	3196.8	3227.1	3256.0	3284.9	3298.6	3287.9
25°	3134.5	3140.5	3154.2	3181.6	3215.0	3251.5	3286.4	3319.8	3345.7	3359.3	3351.7
27.5°	3210.4	3218.0	3234.7	3262.1	3298.6	3338.1	3376.0	3403.4	3424.7	3429.2	3420.1
30°	3324.4	3341.1	3360.8	3391.2	3433.8	3467.2	3505.2	3529.5	3555.3	3555.3	3547.7
32.5°	3502.1	3518.9	3540.1	3569.0	3602.4	3638.9	3672.3	3693.6	3720.9	3722.5	3704.2
35°	3768.0	3775.6	3793.9	3812.1	3842.5	3874.4	3903.3	3916.9	3939.7	3941.2	3924.5
37.5°	4119.0	4120.5	4132.7	4138.8	4166.1	4201.1	4228.4	4237.5	4258.8	4255.8	4239.0
40°	4527.7	4535.3	4539.9	4549.0	4577.9	4611.3	4640.2	4644.7	4667.5	4662.9	4641.7
42.5°	5000.2	5003.3	5029.1	5042.8	5070.1	5086.9	5123.3	5127.9	5155.2	5143.1	5118.8
45°	5530.5	5557.9	5582.2	5609.5	5638.4	5658.1	5687.0	5680.9	5699.2	5680.9	5667.3
47.5°	6088.1	6107.9	6162.6	6205.1	6252.2	6268.9	6309.9	6291.7	6309.9	6284.1	6279.6
50°	6701.9	6736.9	6784.0	6832.6	6882.7	6910.1	6963.3	6940.5	6964.8	6940.5	6926.8
52.5°	7306.7	7315.8	7419.1	7490.5	7560.4	7592.3	7624.2	7613.6	7615.1	7613.6	7599.9
55°	7881.0	7902.2	8005.6	8102.8	8224.4	8314.0	8368.7	8362.6	8348.9	8335.3	8312.5
57.5°	8528.2	8549.5	8668.0	8788.0	8926.3	9053.9	9164.8	9278.8	9322.9	9335.0	9284.9
60°	9403.4	9401.9	9559.9	9705.7	9903.3	10093.2	10336.3	10583.9	10868.1	11000.2	10825.5
62.5°	10293.7	10330.2	10558.1	10816.4	11223.6	11620.1	12068.4	12509.0	12958.7	13324.9	12935.9
65°	10187.4	10327.2	10666.0	11250.9	12003.0	12896.4	13862.7	14885.3	15809.0	16444.1	15731.6
67.5°	8829.1	9028.1	9373.0	10084.1	11024.6	12313.0	13935.7	15957.9	18308.4	19444.9	18036.4
70°	6399.6	6624.5	6986.1	7680.4	8611.8	9836.4	11598.9	14026.8	17138.5	18284.1	16732.8
72.5°	3184.6	3306.2	3529.5	3971.6	4676.6	5670.3	7268.7	9602.4	12355.5	13406.9	11989.4
75°	1081.8	1138.0	1176.0	1320.3	1543.7	1934.2	2728.8	4198.0	6404.1	7677.4	6313.0
77.5°	624.5	626.0	651.8	677.6	715.6	758.2	864.5	1135.0	1963.0	2788.0	2031.4
80°	404.2	402.6	423.9	443.7	469.5	490.8	496.8	525.7	606.2	718.7	642.7
82.5°	209.7	235.5	282.6	308.4	357.1	366.2	354.0	343.4	363.1	376.8	385.9
85°	115.5	100.3	150.4	194.5	215.8	218.8	218.8	206.6	214.2	209.7	227.9
87.5°	53.2	48.6	59.3	95.7	101.8	86.6	91.2	80.5	57.7	56.2	63.8
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°	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5	3292.5
2.5°	3277.3	3278.8	3278.8	3283.4	3284.9	3287.9	3291.0	3292.5
5°	3251.5	3256.0	3253.0	3257.5	3257.5	3260.6	3260.6	3262.1
7.5°	3213.5	3218.0	3218.0	3218.0	3216.5	3221.1	3221.1	3221.1
10°	3174.0	3177.0	3175.5	3172.4	3169.4	3174.0	3172.4	3170.9
12.5°	3161.8	3154.2	3148.1	3145.1	3139.0	3140.5	3136.0	3136.0
15°	3169.4	3155.7	3145.1	3140.5	3134.5	3131.4	3128.4	3129.9
17.5°	3189.2	3172.4	3158.8	3151.2	3143.6	3139.0	3132.9	3134.5
20°	3224.1	3204.4	3184.6	3169.4	3155.7	3148.1	3143.6	3142.1
22.5°	3275.8	3246.9	3218.0	3195.2	3177.0	3166.4	3161.8	3158.8
25°	3335.0	3303.1	3269.7	3243.9	3225.6	3211.9	3202.8	3202.8
27.5°	3409.5	3383.6	3353.3	3322.9	3306.2	3292.5	3286.4	3283.4
30°	3534.1	3509.7	3485.4	3456.6	3435.3	3421.6	3411.0	3401.9
32.5°	3693.6	3673.8	3654.1	3632.8	3613.1	3594.8	3578.1	3570.5
35°	3918.5	3903.3	3889.6	3865.3	3857.7	3847.0	3837.9	3830.3
37.5°	4228.4	4222.3	4222.3	4196.5	4190.4	4185.9	4176.7	4178.3
40°	4635.6	4641.7	4634.1	4625.0	4620.4	4608.3	4608.3	4618.9
42.5°	5117.2	5121.8	5138.5	5123.3	5140.0	5124.8	5115.7	5123.3
45°	5676.4	5693.1	5726.5	5711.3	5721.9	5696.1	5664.2	5665.7
47.5°	6303.9	6319.1	6332.7	6322.1	6323.6	6281.1	6238.5	6227.9
50°	6955.7	6961.8	6969.4	6954.2	6957.2	6910.1	6861.5	6863.0
52.5°	7599.9	7628.8	7659.1	7618.1	7609.0	7555.8	7487.5	7460.1
55°	8336.8	8377.8	8342.9	8271.5	8200.0	8128.6	8039.0	8023.8
57.5°	9245.4	9175.5	9066.1	8930.9	8832.1	8731.8	8640.7	8602.7
60°	10509.5	10246.6	10049.1	9848.6	9722.5	9599.4	9479.4	9461.1
62.5°	12296.3	11842.0	11448.5	11033.7	10694.8	10430.5	10219.3	10160.0
65°	14535.8	13461.6	12530.2	11661.2	10906.0	10336.3	9977.7	9819.7
67.5°	15499.1	13378.1	11781.2	10547.5	9559.9	8870.1	8482.6	8289.7
70°	13619.6	11094.4	9357.8	8122.6	7223.1	6487.7	6136.7	5930.1
72.5°	9370.0	7057.5	5580.6	4555.1	3836.4	3221.1	2978.0	2959.7
75°	4207.1	2786.5	1920.5	1479.9	1245.9	1083.3	1033.2	995.2
77.5°	1177.5	870.6	776.4	726.3	677.6	621.4	600.2	604.7
80°	572.8	540.9	519.6	487.7	443.7	396.6	375.3	384.4
82.5°	379.8	375.3	389.0	366.2	302.4	256.8	215.8	197.5
85°	230.9	234.0	238.5	240.1	203.6	142.8	97.2	109.4
87.5°	91.2	104.8	114.0	118.5	110.9	68.4	54.7	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)