

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: P269691

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269691
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-10-LED-E1-5WQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43561.1 lumens
Efficiency: N/A
Efficacy: 104.0 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 - G5

Input Watts (W): 419
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

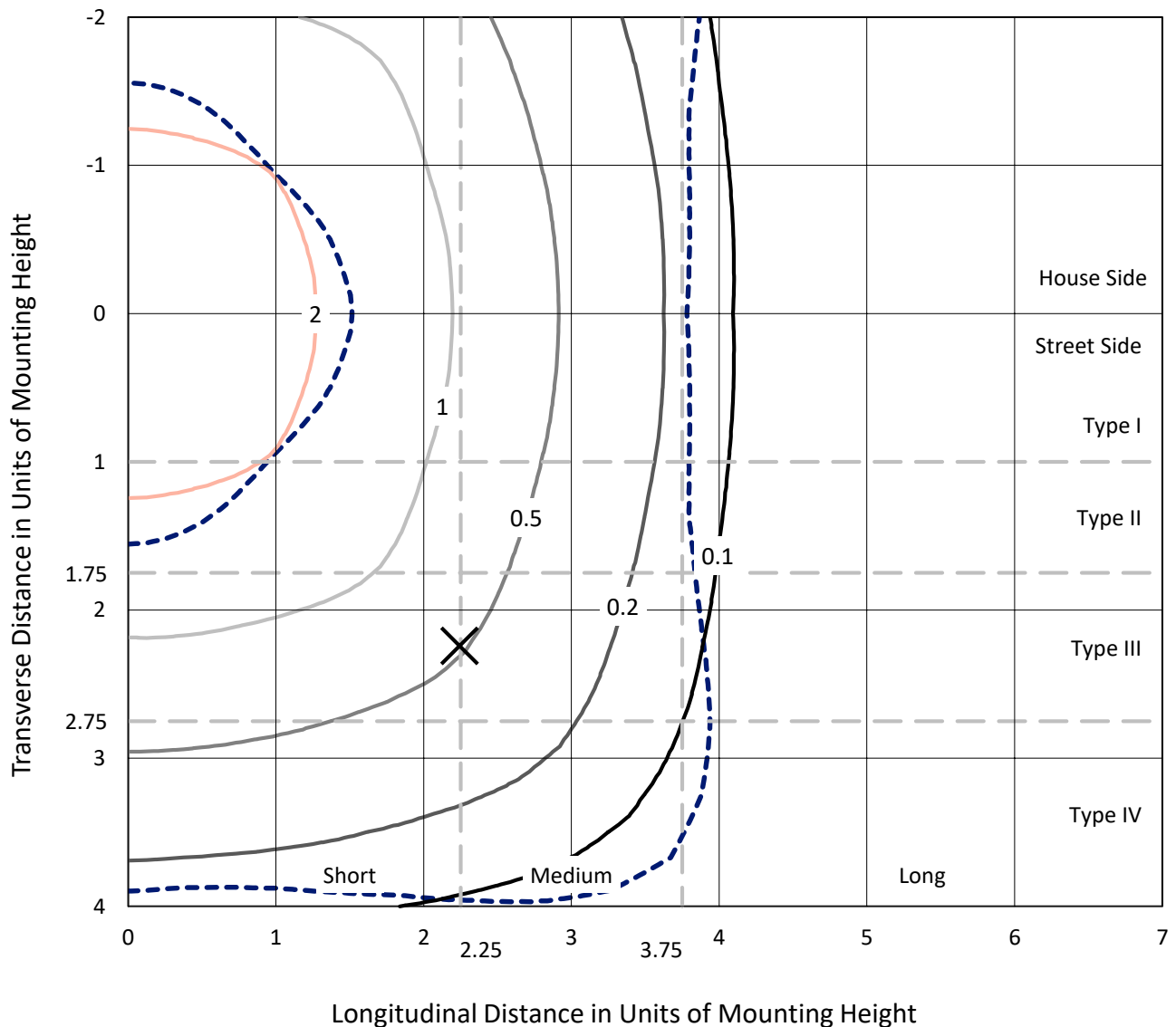


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

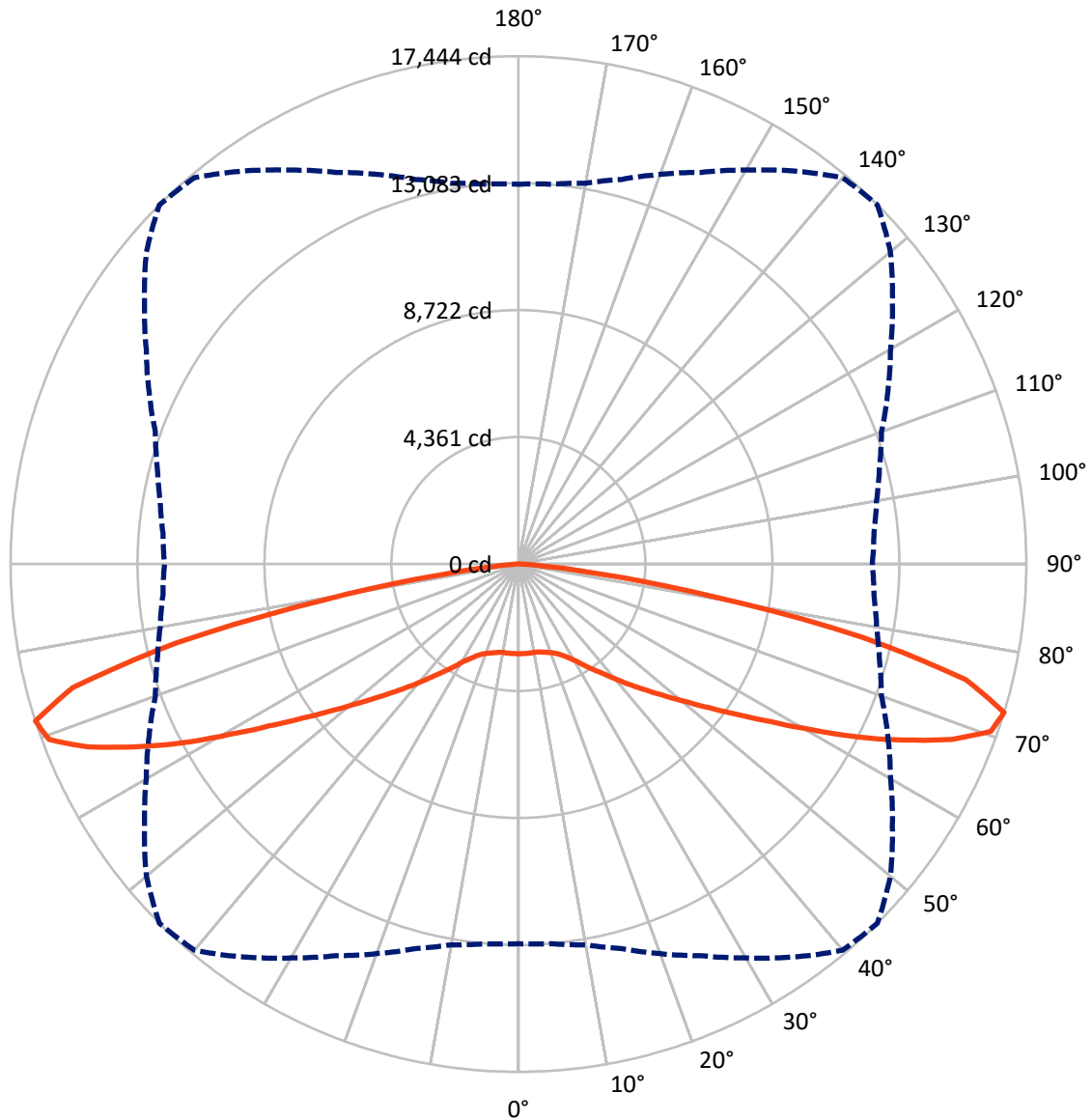


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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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	21780.5	0.0	21780.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21780.5	0.0	21780.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43561.1	0.0	43561.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	0.7
10°-20°	894.6	2.1
20°-30°	1634.8	3.8
30°-40°	2818.7	6.5
40°-50°	4818.6	11.1
50°-60°	7810.3	17.9
60°-70°	12957.1	29.7
70°-80°	11412.2	26.2
80°-90°	920.1	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°	43561.1	100.0
0°-180°	43561.1	100.0



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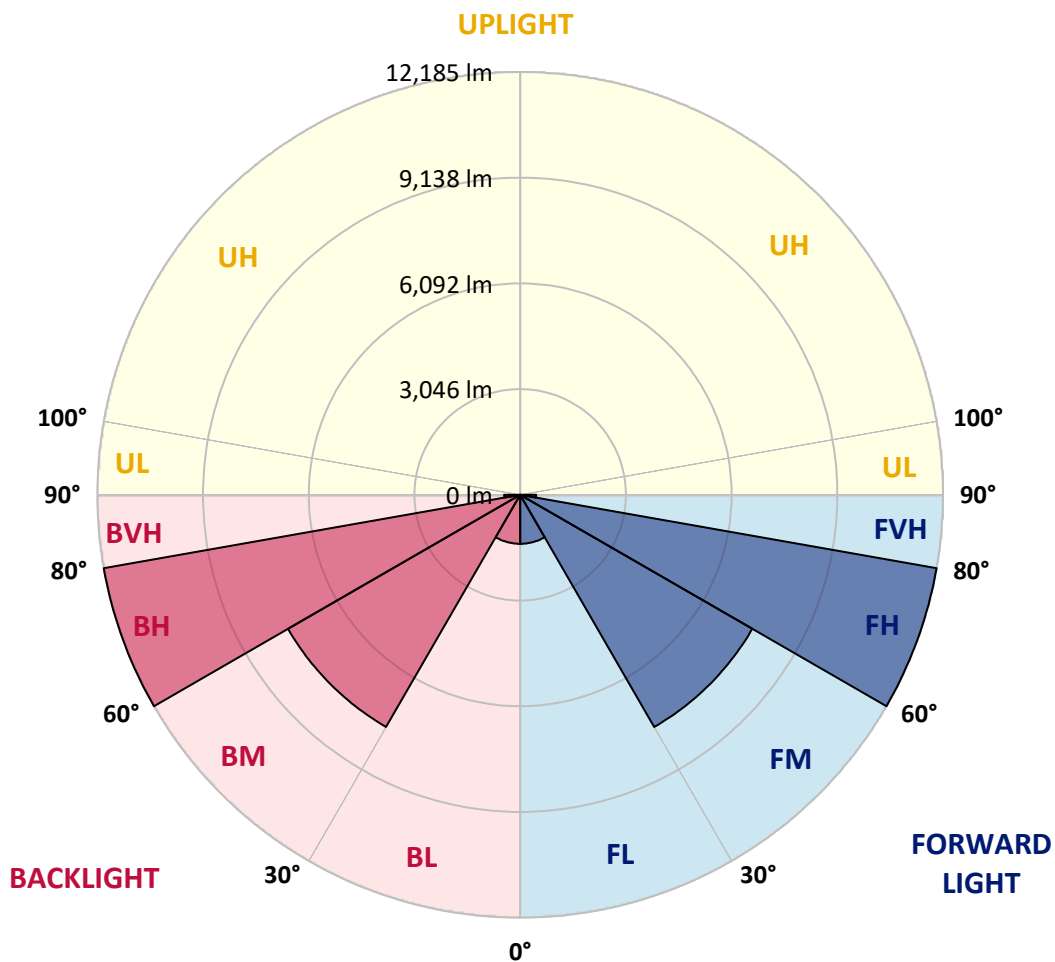
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.0	3.2			
FM (30°-60°)	7723.8	17.7			
FH (60°-80°)	12184.6	28.0			G5
FVH (80°-90°)	460.1	1.1			G3/500
BL (0°-30°)	1412.0	3.2	B3/2500		
BM (30°-60°)	7723.8	17.7	B4/8500		
BH (60°-80°)	12184.6	28.0	B5		G5
BVH (80°-90°)	460.1	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	3084.8	3086.8	3088.8	3086.8	3086.8	3084.8	3082.9	3084.8	3082.9	3078.9	3080.7
5°	3094.8	3098.9	3098.9	3094.8	3096.7	3094.8	3090.8	3092.8	3088.8	3082.9	3082.9
7.5°	3106.8	3108.8	3108.8	3104.8	3106.8	3102.7	3098.9	3096.7	3092.8	3084.8	3078.9
10°	3124.8	3126.8	3124.8	3120.7	3120.7	3114.8	3104.8	3100.8	3092.8	3080.7	3074.8
12.5°	3144.7	3146.8	3144.7	3140.7	3138.8	3128.7	3120.7	3114.8	3108.8	3098.9	3088.8
15°	3172.8	3176.6	3172.8	3164.6	3158.7	3150.7	3146.8	3148.6	3150.7	3142.7	3132.7
17.5°	3224.6	3226.6	3220.7	3202.6	3194.7	3186.6	3186.6	3190.7	3196.7	3192.7	3182.8
20°	3320.6	3314.6	3300.6	3278.6	3268.7	3254.6	3252.7	3254.6	3254.6	3252.7	3244.7
22.5°	3440.4	3436.5	3418.5	3390.6	3376.5	3368.6	3356.5	3346.5	3344.5	3338.6	3330.6
25°	3584.2	3582.4	3560.3	3536.4	3526.3	3516.3	3506.4	3492.4	3480.5	3466.4	3458.5
27.5°	3768.1	3760.0	3728.1	3716.2	3702.2	3696.2	3682.2	3666.3	3656.2	3638.2	3628.3
30°	3969.9	3969.9	3943.9	3940.0	3940.0	3926.0	3910.0	3881.9	3864.0	3846.1	3840.1
32.5°	4171.6	4173.6	4147.7	4155.6	4161.7	4171.6	4175.7	4165.7	4153.8	4151.6	4139.7
35°	4463.4	4455.4	4429.5	4435.4	4433.4	4431.3	4431.3	4453.3	4457.4	4461.4	4437.4
37.5°	4824.9	4824.9	4799.0	4799.0	4787.1	4775.0	4759.1	4773.1	4795.1	4801.0	4785.0
40°	5238.6	5252.6	5220.6	5218.7	5222.6	5184.6	5166.6	5188.6	5202.7	5226.6	5208.6
42.5°	5726.1	5716.1	5684.1	5680.2	5658.2	5646.1	5630.1	5648.2	5670.1	5686.1	5692.1
45°	6193.5	6185.5	6149.6	6149.6	6127.7	6117.6	6125.6	6155.6	6165.5	6187.5	6209.5
47.5°	6655.2	6645.1	6621.1	6631.1	6633.2	6651.1	6677.1	6705.0	6733.1	6763.0	6773.0
50°	7126.7	7128.6	7102.5	7126.7	7156.5	7206.6	7276.5	7322.4	7380.4	7418.4	7430.3
52.5°	7556.2	7564.2	7592.1	7648.1	7707.9	7805.9	7925.7	8037.7	8133.6	8197.6	8193.5
55°	8071.6	8083.6	8151.6	8247.5	8345.3	8493.1	8671.0	8868.7	9028.7	9120.5	9062.6
57.5°	8730.9	8756.9	8832.9	8962.7	9108.5	9300.3	9544.1	9841.8	10089.6	10213.4	10119.4
60°	9635.9	9652.0	9743.8	9887.7	10063.5	10301.4	10626.9	11026.5	11376.2	11540.0	11432.1
62.5°	10828.8	10858.7	10932.6	11078.4	11258.4	11528.0	11925.5	12425.1	12860.7	13088.5	12844.7
65°	12253.3	12349.2	12411.2	12558.9	12726.7	13012.5	13428.0	13963.6	14431.0	14580.8	14299.2
67.5°	13663.8	13747.8	13855.6	14025.4	14195.2	14517.0	14902.5	15422.0	15935.5	16071.3	15633.8
70°	14281.3	14329.1	14496.9	14728.7	15054.3	15434.0	15879.6	16463.0	17098.2	17210.2	16654.8
72.5°	13044.5	13092.4	13280.3	13673.8	14241.2	14844.6	15621.9	16478.9	17318.1	17443.8	16678.7
75°	9865.7	9787.8	10065.6	10587.1	11352.2	12193.4	13280.3	14509.0	15721.6	15879.6	14966.5
77.5°	5098.7	5088.7	5298.6	5945.8	6858.9	7816.0	9012.6	10401.3	11588.0	12067.6	11324.3
80°	1436.5	1452.5	1552.5	1874.0	2407.5	3098.9	4033.7	5334.4	6305.5	6801.0	6385.4
82.5°	563.3	607.3	645.3	705.3	775.1	877.0	1170.9	1742.3	2337.6	2793.1	2287.7
85°	201.8	215.8	305.8	361.6	367.6	387.6	441.5	515.4	621.4	741.2	609.4
87.5°	75.9	83.9	97.8	161.9	159.9	145.9	177.9	185.8	139.9	127.9	157.8
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°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	3076.9	3078.9	3078.9	3080.7	3082.9	3082.9	3086.8	3086.8
5°	3078.9	3078.9	3074.8	3076.9	3074.8	3074.8	3076.9	3076.9
7.5°	3074.8	3072.8	3068.8	3066.9	3062.9	3062.9	3062.9	3062.9
10°	3068.8	3066.9	3062.9	3060.9	3058.8	3058.8	3058.8	3058.8
12.5°	3084.8	3078.9	3074.8	3072.8	3072.8	3072.8	3072.8	3072.8
15°	3126.8	3112.7	3102.7	3102.7	3104.8	3108.8	3108.8	3112.7
17.5°	3178.7	3162.8	3152.7	3144.7	3148.6	3154.8	3158.7	3162.8
20°	3240.6	3232.6	3218.6	3210.7	3210.7	3218.6	3222.7	3224.6
22.5°	3326.6	3320.6	3314.6	3304.5	3304.5	3308.5	3316.5	3316.5
25°	3454.4	3450.4	3446.4	3438.4	3436.5	3436.5	3440.4	3444.5
27.5°	3614.2	3616.2	3612.3	3610.3	3604.3	3602.3	3608.2	3606.2
30°	3828.0	3838.0	3848.0	3840.1	3830.1	3824.1	3818.1	3810.0
32.5°	4117.7	4105.8	4097.8	4083.8	4065.8	4049.7	4037.8	4023.8
35°	4391.5	4371.4	4363.4	4375.5	4373.5	4363.4	4349.6	4337.5
37.5°	4727.2	4723.1	4727.2	4749.1	4745.0	4755.1	4727.2	4725.2
40°	5150.6	5154.7	5182.6	5208.6	5222.6	5236.6	5220.6	5204.6
42.5°	5642.2	5640.2	5650.1	5686.1	5710.0	5726.1	5692.1	5688.1
45°	6161.7	6147.6	6155.6	6185.5	6209.5	6227.5	6189.6	6189.6
47.5°	6733.1	6709.0	6683.1	6717.0	6731.0	6742.9	6713.0	6703.1
50°	7370.4	7320.4	7264.5	7278.4	7278.4	7274.5	7236.4	7234.5
52.5°	8101.6	8009.6	7907.8	7869.8	7847.9	7823.9	7757.9	7726.1
55°	8942.7	8804.8	8645.1	8547.2	8495.2	8429.2	8319.4	8289.4
57.5°	9925.7	9709.9	9434.2	9314.3	9198.5	9090.6	8968.7	8934.7
60°	11090.6	10772.8	10407.3	10185.4	10059.6	9955.6	9829.9	9823.9
62.5°	12389.2	11887.7	11474.1	11274.3	11182.5	11090.6	10970.6	10986.6
65°	13709.8	13186.3	12798.7	12636.8	12550.9	12475.0	12355.2	12373.2
67.5°	15012.5	14531.0	14105.4	13939.5	13843.6	13747.8	13639.9	13657.8
70°	15947.5	15350.1	14870.6	14503.0	14273.2	14013.5	13845.7	13803.6
72.5°	15679.7	14758.8	13997.5	13268.2	12840.7	12493.1	12257.4	12155.3
75°	13569.9	12311.2	11332.3	10437.1	9933.6	9524.1	9226.4	9040.6
77.5°	10077.5	8663.1	7506.1	6475.3	5660.1	5112.8	4727.2	4477.3
80°	5516.3	4195.7	3066.9	2155.8	1584.4	1316.6	1162.8	1088.8
82.5°	1718.2	1108.9	817.2	705.3	655.4	627.3	581.5	507.5
85°	547.4	479.5	445.5	425.5	405.6	353.7	243.7	221.8
87.5°	211.8	217.7	215.8	203.7	207.8	149.8	119.8	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)