

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: P190796

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190796  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33776.8 lumens  
Efficiency: N/A  
Efficacy: 131.4 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

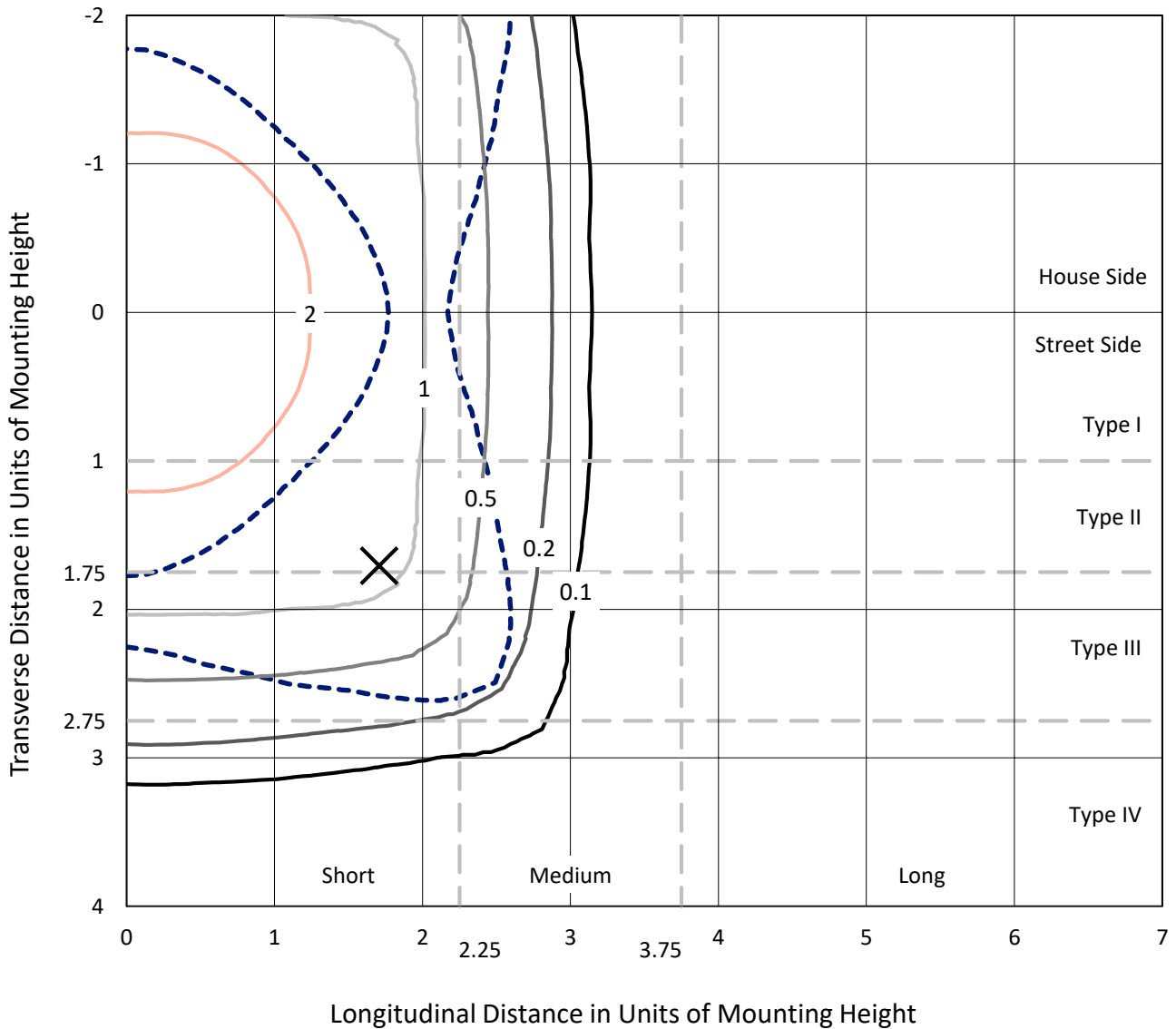
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

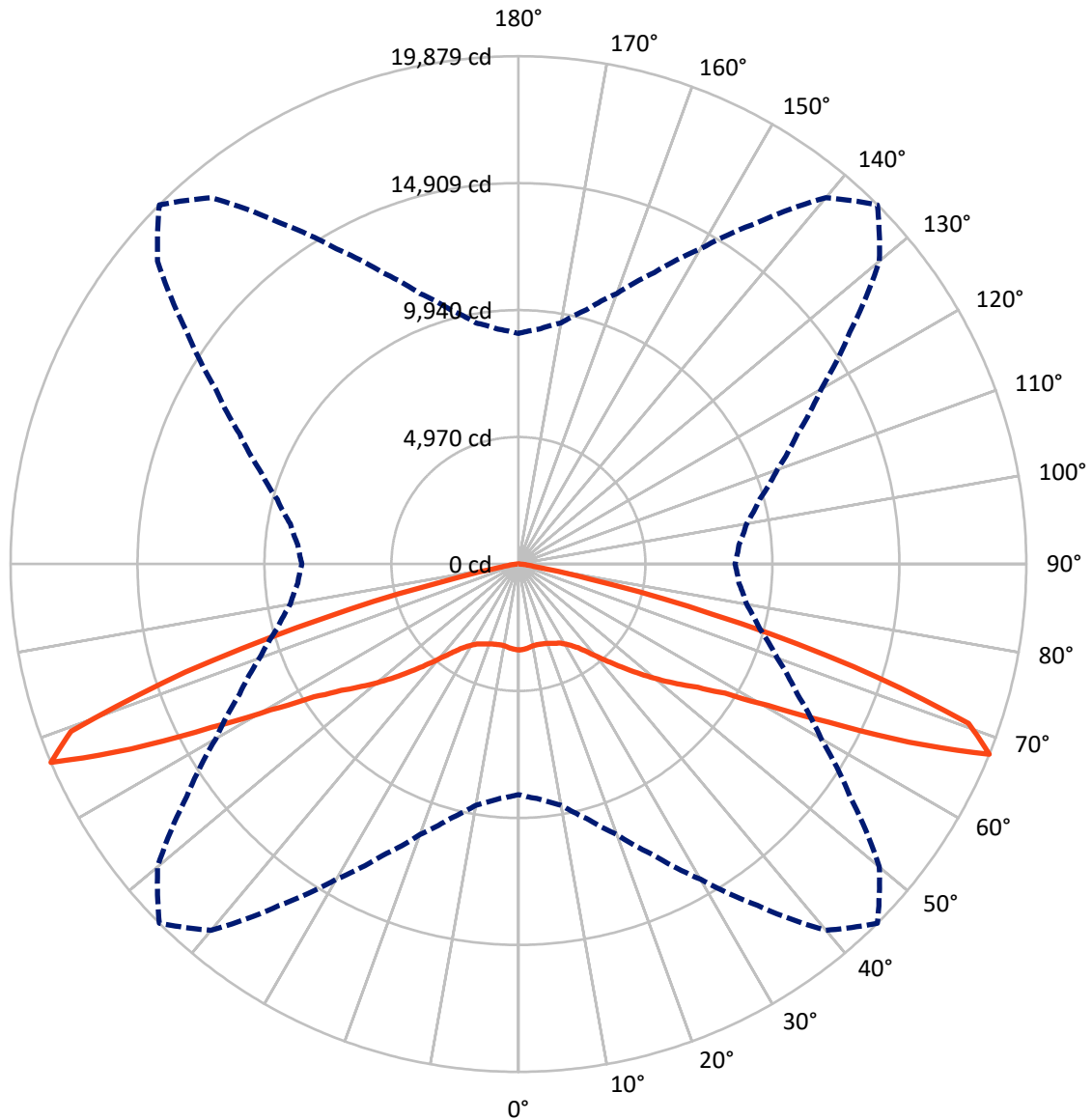
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	16888.4	0.0	16888.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16888.4	0.0	16888.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33776.8	0.0	33776.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.0	0.9
10°-20°	914.2	2.7
20°-30°	1554.1	4.6
30°-40°	2540.5	7.5
40°-50°	4535.2	13.4
50°-60°	7646.5	22.6
60°-70°	11866.3	35.1
70°-80°	4169.3	12.3
80°-90°	235.6	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°	33776.8	100.0
0°-180°	33776.8	100.0



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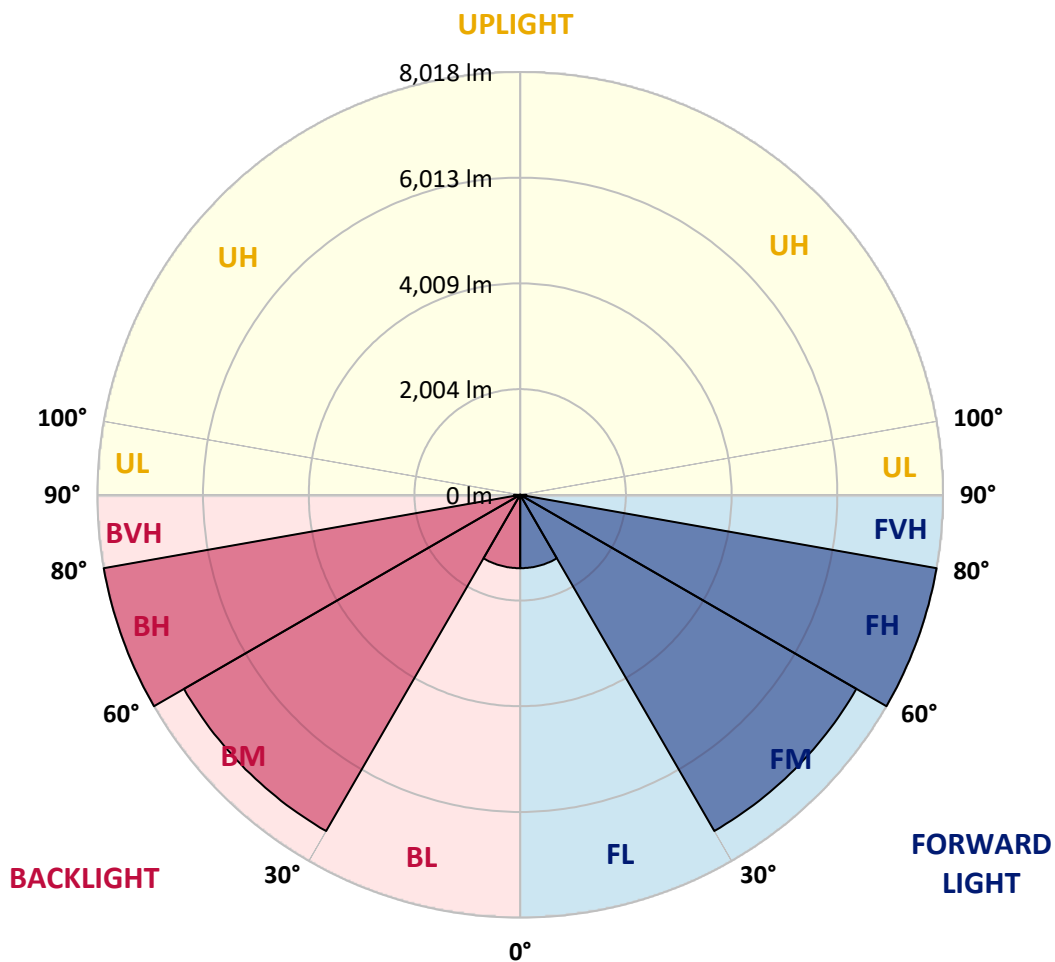
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.7	4.1			
FM	(30°-60°)	7361.1	21.8			
FH	(60°-80°)	8017.8	23.7			G4/12000
FVH	(80°-90°)	117.8	0.3			G2/225
BL	(0°-30°)	1391.7	4.1	B3/2500		
BM	(30°-60°)	7361.1	21.8	B4/8500		
BH	(60°-80°)	8017.8	23.7	B5		G4/12000
BVH	(80°-90°)	117.8	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°	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0
2.5°	3353.5	3356.7	3356.7	3356.7	3355.2	3355.2	3352.0	3355.2	3353.5	3348.9	3350.5
5°	3325.6	3328.7	3328.7	3327.1	3331.9	3330.3	3325.6	3328.7	3327.1	3324.1	3325.6
7.5°	3285.2	3289.9	3289.9	3288.4	3293.0	3291.4	3288.4	3289.9	3289.9	3285.2	3285.2
10°	3240.2	3243.3	3243.3	3241.7	3249.5	3249.5	3248.0	3252.6	3254.2	3249.5	3246.4
12.5°	3198.3	3202.9	3202.9	3209.1	3216.9	3219.9	3227.7	3234.0	3240.2	3238.7	3232.4
15°	3173.4	3176.5	3182.7	3190.5	3202.9	3213.8	3226.2	3240.2	3252.6	3255.7	3246.4
17.5°	3157.8	3162.6	3171.9	3182.7	3199.8	3218.4	3237.1	3255.7	3272.8	3279.0	3268.1
20°	3153.2	3156.3	3165.6	3184.2	3207.6	3235.5	3261.9	3283.7	3307.0	3314.8	3307.0
22.5°	3162.6	3168.7	3179.6	3201.3	3232.4	3268.1	3299.2	3328.7	3358.2	3372.3	3361.3
25°	3204.5	3210.6	3224.6	3252.6	3286.7	3324.1	3359.8	3393.9	3420.3	3434.4	3426.6
27.5°	3282.1	3289.9	3307.0	3334.9	3372.3	3412.6	3451.4	3479.4	3501.2	3505.8	3496.4
30°	3398.7	3415.7	3435.9	3467.0	3510.5	3544.6	3583.5	3608.4	3634.7	3634.7	3627.0
32.5°	3580.3	3597.4	3619.2	3648.7	3682.8	3720.2	3754.3	3776.1	3804.0	3805.6	3787.0
35°	3852.2	3859.9	3878.6	3897.2	3928.3	3960.9	3990.4	4004.4	4027.7	4029.3	4012.2
37.5°	4211.0	4212.5	4225.0	4231.2	4259.2	4294.9	4322.8	4332.2	4353.9	4350.8	4333.7
40°	4628.9	4636.6	4641.2	4650.5	4680.1	4714.3	4743.7	4748.4	4771.8	4767.1	4745.4
42.5°	5111.9	5115.1	5141.5	5155.4	5183.4	5200.5	5237.7	5242.4	5270.3	5258.0	5233.1
45°	5654.1	5682.0	5706.8	5734.8	5764.3	5784.5	5814.0	5807.8	5826.4	5807.8	5793.8
47.5°	6224.0	6244.3	6300.1	6343.7	6391.8	6408.9	6450.8	6432.2	6450.8	6424.4	6419.8
50°	6851.6	6887.3	6935.5	6985.2	7036.5	7064.4	7118.8	7095.5	7120.4	7095.5	7081.5
52.5°	7469.8	7479.1	7584.8	7657.8	7729.2	7761.8	7794.5	7783.6	7785.2	7783.6	7769.6
55°	8057.0	8078.8	8184.3	8283.8	8408.0	8499.7	8555.6	8549.4	8535.4	8521.4	8498.1
57.5°	8718.7	8740.4	8861.6	8984.3	9125.6	9256.1	9369.5	9486.0	9531.0	9543.5	9492.3
60°	9613.4	9611.9	9773.4	9922.5	10124.5	10318.6	10567.1	10820.3	11110.8	11245.9	11067.3
62.5°	10523.6	10560.8	10793.9	11058.0	11474.2	11879.6	12337.9	12788.3	13248.1	13622.4	13224.8
65°	10414.9	10557.8	10904.1	11502.2	12271.1	13184.4	14172.3	15217.7	16162.1	16811.4	16082.8
67.5°	9026.2	9229.7	9582.3	10309.3	11270.8	12587.9	14246.8	16314.3	18717.2	19879.1	18439.2
70°	6542.5	6772.3	7142.0	7852.0	8804.1	10056.0	11857.9	14340.0	17521.2	18692.4	17106.5
72.5°	3255.7	3379.9	3608.4	4060.3	4781.1	5797.0	7431.0	9816.8	12631.4	13706.3	12257.1
75°	1105.9	1163.4	1202.3	1349.8	1578.1	1977.4	2789.7	4291.8	6547.2	7848.8	6454.0
77.5°	638.4	640.0	666.4	692.7	731.6	775.1	883.8	1160.3	2006.8	2850.4	2076.8
80°	413.2	411.6	433.3	453.6	480.0	501.8	507.9	537.5	619.8	734.7	657.0
82.5°	214.3	240.8	288.9	315.3	365.0	374.3	361.9	351.1	371.2	385.2	394.6
85°	118.0	102.5	153.7	198.9	220.5	223.7	223.7	211.2	219.0	214.3	233.0
87.5°	54.3	49.7	60.6	97.9	104.0	88.6	93.2	82.3	59.0	57.5	65.3
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°	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0	3366.0
2.5°	3350.5	3352.0	3352.0	3356.7	3358.2	3361.3	3364.5	3366.0
5°	3324.1	3328.7	3325.6	3330.3	3330.3	3333.4	3333.4	3334.9
7.5°	3285.2	3289.9	3289.9	3289.9	3288.4	3293.0	3293.0	3293.0
10°	3244.8	3248.0	3246.4	3243.3	3240.2	3244.8	3243.3	3241.7
12.5°	3232.4	3224.6	3218.4	3215.3	3209.1	3210.6	3206.0	3206.0
15°	3240.2	3226.2	3215.3	3210.6	3204.5	3201.3	3198.3	3199.8
17.5°	3260.3	3243.3	3229.4	3221.6	3213.8	3209.1	3202.9	3204.5
20°	3296.2	3275.9	3255.7	3240.2	3226.2	3218.4	3213.8	3212.3
22.5°	3348.9	3319.4	3289.9	3266.6	3248.0	3237.1	3232.4	3229.4
25°	3409.5	3376.9	3342.7	3316.3	3297.7	3283.7	3274.4	3274.4
27.5°	3485.6	3459.2	3428.1	3397.1	3379.9	3366.0	3359.8	3356.7
30°	3613.0	3588.1	3563.2	3533.8	3512.0	3498.1	3487.1	3477.8
32.5°	3776.1	3755.9	3735.7	3713.9	3693.8	3675.2	3658.1	3650.3
35°	4006.0	3990.4	3976.4	3951.6	3943.8	3932.9	3923.6	3915.9
37.5°	4322.8	4316.6	4316.6	4290.3	4284.0	4279.3	4270.0	4271.5
40°	4739.1	4745.4	4737.6	4728.3	4723.6	4711.2	4711.2	4722.0
42.5°	5231.5	5236.2	5253.3	5237.7	5254.8	5239.2	5229.9	5237.7
45°	5803.1	5820.2	5854.3	5838.9	5849.7	5823.4	5790.7	5792.3
47.5°	6444.7	6460.1	6474.2	6463.3	6464.8	6421.4	6377.9	6366.9
50°	7111.0	7117.2	7125.0	7109.4	7112.6	7064.4	7014.7	7016.2
52.5°	7769.6	7799.1	7830.2	7788.2	7778.9	7724.6	7654.6	7626.7
55°	8522.9	8564.9	8529.2	8456.1	8383.2	8310.1	8218.5	8202.9
57.5°	9451.9	9380.4	9268.5	9130.3	9029.4	8926.8	8833.6	8794.8
60°	10744.2	10475.4	10273.5	10068.5	9939.6	9813.8	9691.0	9672.4
62.5°	12570.8	12106.4	11704.1	11280.1	10933.7	10663.4	10447.5	10386.9
65°	14860.4	13762.3	12810.1	11921.6	11149.6	10567.1	10200.6	10038.9
67.5°	15845.2	13676.9	12044.3	10783.0	9773.4	9068.2	8672.1	8474.8
70°	13923.8	11342.2	9566.7	8303.9	7384.4	6632.6	6273.8	6062.5
72.5°	9579.2	7215.1	5705.3	4656.8	3922.1	3293.0	3044.5	3025.8
75°	4301.1	2848.7	1963.3	1512.9	1273.7	1107.5	1056.2	1017.4
77.5°	1203.8	890.1	793.7	742.5	692.7	635.3	613.6	618.2
80°	585.6	553.0	531.2	498.6	453.6	405.4	383.7	393.0
82.5°	388.3	383.7	397.6	374.3	309.1	262.5	220.5	201.9
85°	236.1	239.2	243.9	245.4	208.2	146.0	99.4	111.8
87.5°	93.2	107.2	116.5	121.1	113.3	69.9	56.0	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)