

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: P191636

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32422 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G2

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

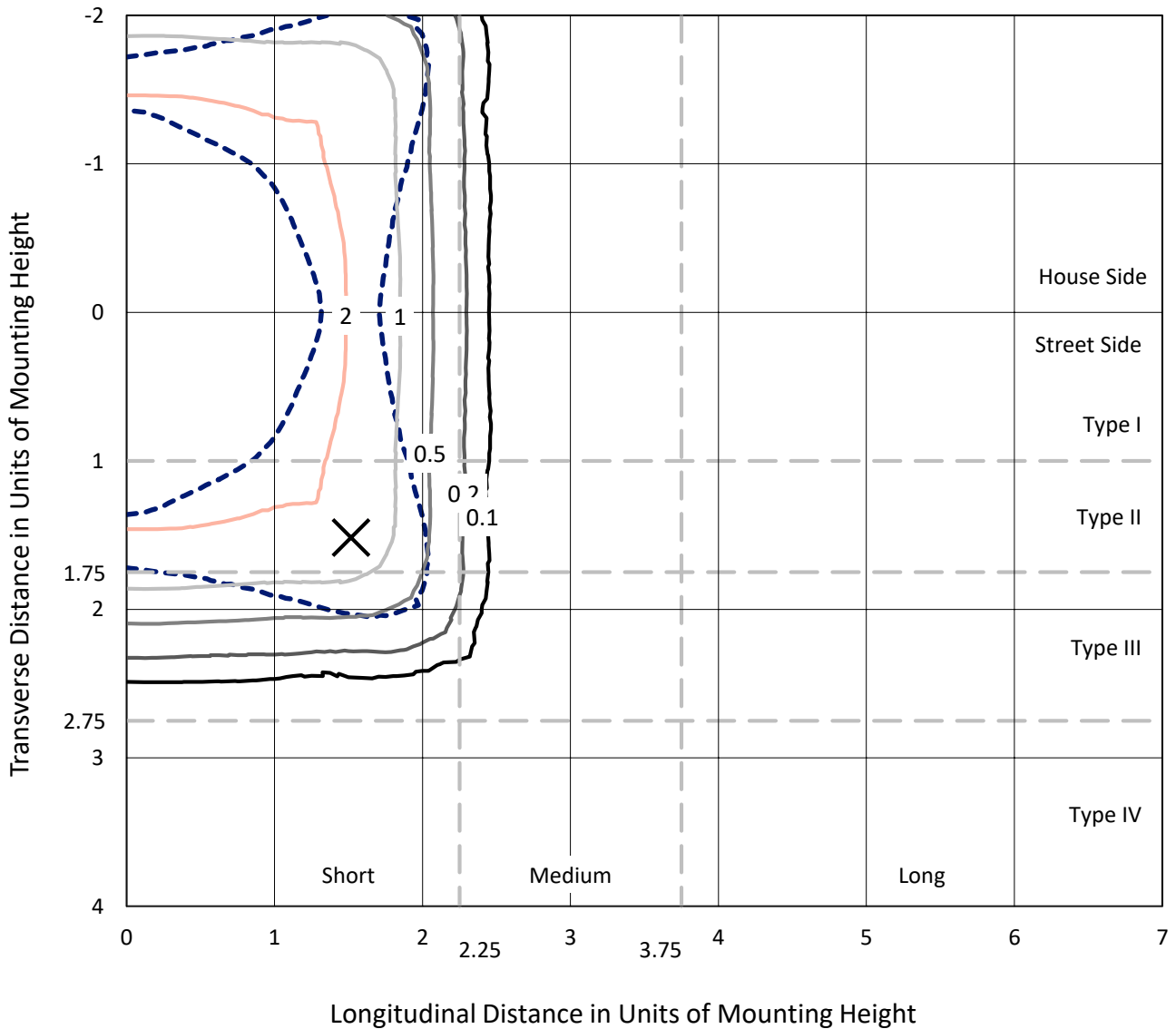


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

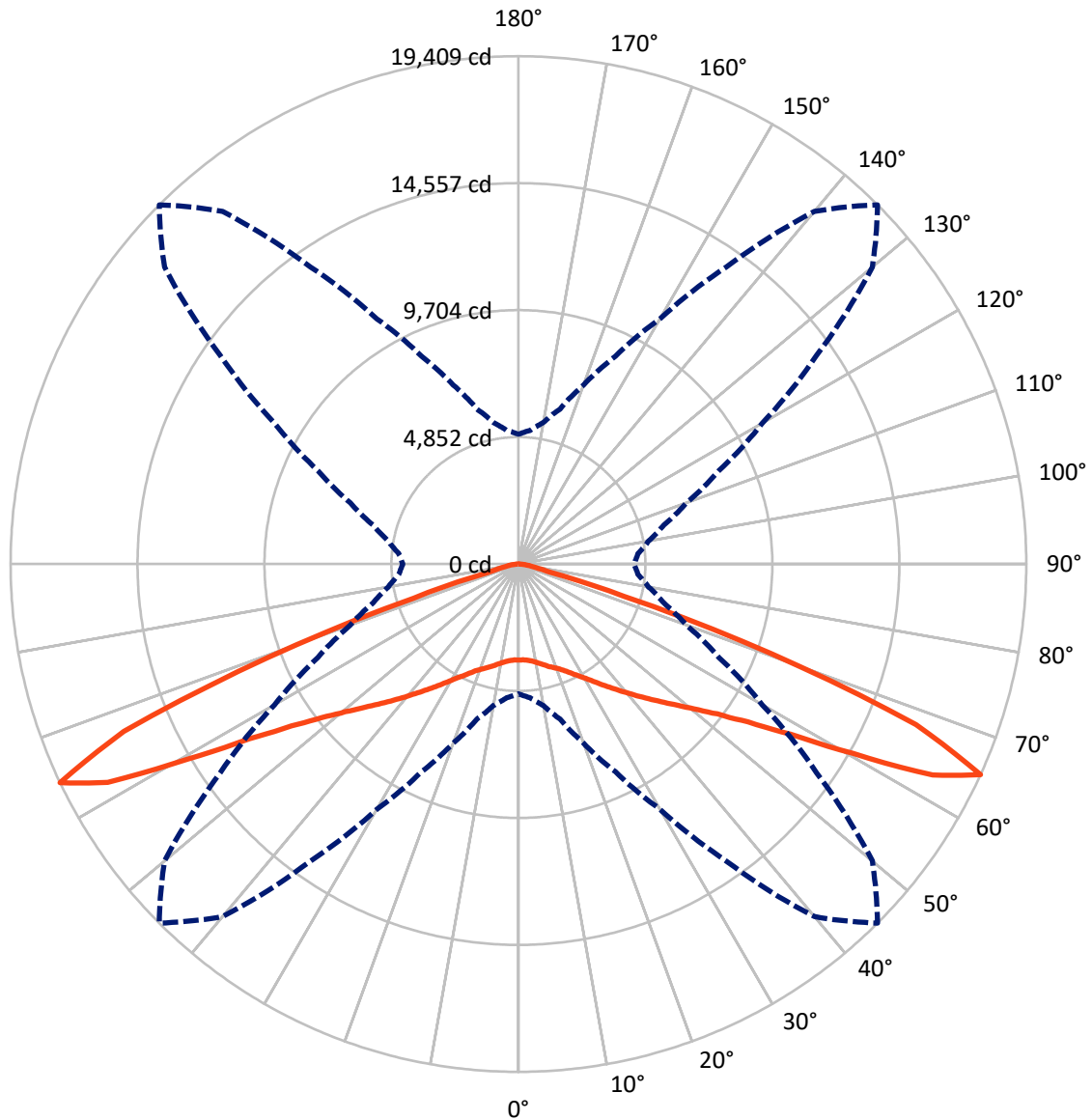


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16211.0	0.0	16211.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16211.0	0.0	16211.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32422.0	0.0	32422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.6	1.1
10°-20°	1146.8	3.5
20°-30°	2144.3	6.6
30°-40°	3626.6	11.2
40°-50°	5929.8	18.3
50°-60°	9429.3	29.1
60°-70°	8523.5	26.3
70°-80°	1078.7	3.3
80°-90°	185.6	0.6
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°	32422.0	100.0
0°-180°	32422.0	100.0



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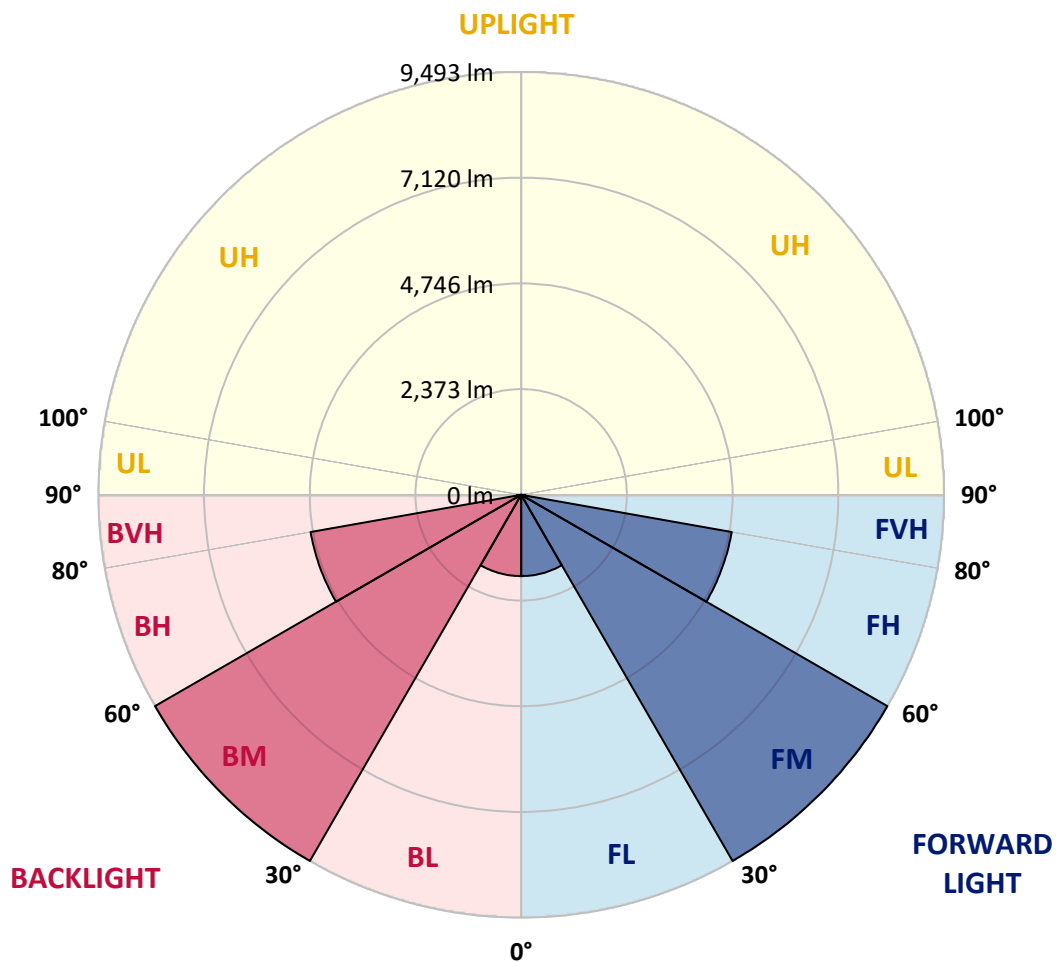
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1824.3	5.6			
FM	(30°-60°)	9492.8	29.3			
FH	(60°-80°)	4801.1	14.8			G2/5000
FVH	(80°-90°)	92.8	0.3			G1/100
BL	(0°-30°)	1824.3	5.6	B3/2500		
BM	(30°-60°)	9492.8	29.3	B5		
BH	(60°-80°)	4801.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	92.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6
2.5°	3671.6	3674.6	3677.7	3674.6	3677.7	3673.1	3670.1	3674.6	3670.1	3665.5	3668.6
5°	3703.5	3705.0	3705.0	3700.5	3705.0	3702.0	3697.4	3703.5	3698.9	3694.4	3697.4
7.5°	3756.6	3762.7	3758.2	3753.6	3756.6	3753.6	3750.6	3752.1	3750.6	3746.0	3747.5
10°	3828.0	3832.6	3829.5	3828.0	3831.0	3829.5	3826.5	3825.0	3826.5	3821.9	3821.9
12.5°	3914.6	3913.0	3911.5	3913.0	3917.6	3917.6	3916.1	3917.6	3920.6	3922.1	3919.1
15°	3999.6	4002.6	4002.6	4002.6	4011.7	4019.3	4023.9	4026.9	4033.0	4034.5	4028.4
17.5°	4105.9	4105.9	4104.4	4105.9	4115.0	4127.1	4131.7	4137.8	4143.8	4148.4	4140.8
20°	4224.3	4227.4	4227.4	4230.4	4242.5	4256.2	4256.2	4259.2	4256.2	4259.2	4254.7
22.5°	4368.6	4377.7	4377.7	4379.2	4391.3	4408.1	4403.5	4408.1	4400.5	4406.5	4400.5
25°	4556.9	4570.5	4567.5	4567.5	4576.6	4587.2	4588.7	4597.9	4596.3	4603.9	4599.4
27.5°	4769.4	4790.7	4796.8	4795.3	4801.3	4812.0	4815.0	4825.6	4819.5	4825.6	4822.6
30°	5024.5	5033.7	5045.8	5050.4	5057.9	5068.6	5068.6	5070.1	5062.5	5071.6	5076.2
32.5°	5288.7	5305.5	5317.6	5344.9	5358.6	5366.2	5364.7	5367.7	5360.1	5372.3	5381.4
35°	5638.0	5650.1	5669.9	5691.1	5709.4	5707.8	5703.3	5704.8	5704.8	5715.4	5724.5
37.5°	6058.6	6061.6	6087.5	6117.8	6126.9	6117.8	6090.5	6084.4	6070.7	6084.4	6099.6
40°	6503.5	6514.1	6565.8	6585.5	6590.1	6573.4	6533.9	6511.1	6480.7	6497.4	6518.7
42.5°	6969.7	6990.9	7038.0	7072.9	7088.1	7077.5	7022.8	6987.9	6948.4	6957.5	6978.8
45°	7485.9	7511.8	7578.6	7612.0	7640.8	7624.1	7571.0	7517.8	7455.6	7460.1	7493.5
47.5°	8063.0	8088.8	8175.3	8231.5	8246.7	8243.6	8184.4	8111.5	8026.5	8023.5	8052.3
50°	8709.8	8735.6	8843.4	8930.0	8974.0	8969.5	8899.6	8796.4	8693.1	8694.6	8731.1
52.5°	9341.5	9373.4	9485.7	9634.5	9721.1	9783.4	9740.8	9643.7	9517.6	9520.7	9554.1
55°	9933.7	9986.8	10115.9	10317.8	10478.8	10653.4	10703.5	10700.5	10624.6	10645.8	10679.2
57.5°	10220.7	10299.6	10498.5	10817.4	11145.4	11500.7	11801.4	12026.1	12121.8	12266.0	12232.6
60°	9677.1	9803.1	10096.2	10565.4	11213.7	11954.7	12748.9	13524.8	14186.8	14686.4	14399.4
62.5°	7923.3	8087.2	8442.6	9043.9	10024.8	11210.7	12730.7	14564.9	16563.2	17768.9	16907.9
65°	4957.7	5127.8	5489.2	6133.0	7281.0	8755.4	10817.4	13857.3	17591.2	19408.8	17656.5
67.5°	1933.0	2025.6	2221.5	2633.0	3495.5	4807.4	6877.0	10327.0	14792.7	16385.6	14517.9
70°	968.8	977.9	1014.3	1090.2	1275.5	1656.6	2520.6	4787.7	8483.6	10246.5	8178.4
72.5°	700.0	701.5	719.7	753.1	812.4	897.4	1061.4	1465.3	2759.0	4216.7	2585.9
75°	536.0	542.1	552.7	570.9	602.8	645.3	704.6	844.3	1046.2	1213.2	1020.4
77.5°	413.0	425.2	432.8	449.5	469.2	498.1	514.8	567.9	660.5	695.4	684.8
80°	314.3	324.9	341.7	355.3	369.0	382.6	376.6	400.9	449.5	478.3	463.1
82.5°	200.4	212.6	261.2	273.3	279.4	288.5	277.9	279.4	300.7	318.9	300.7
85°	129.1	136.7	165.5	180.7	182.2	188.3	183.7	173.1	173.1	157.9	177.7
87.5°	59.2	60.7	74.4	88.1	91.1	82.0	80.5	77.4	62.3	59.2	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°	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6	3668.6
2.5°	3667.0	3670.1	3671.6	3676.2	3677.7	3677.7	3679.2	3682.2
5°	3695.9	3700.5	3702.0	3708.0	3709.6	3708.0	3711.1	3712.6
7.5°	3747.5	3755.1	3758.2	3764.2	3759.7	3765.7	3767.3	3767.3
10°	3823.4	3831.0	3832.6	3838.6	3835.6	3838.6	3838.6	3835.6
12.5°	3923.7	3925.2	3920.6	3925.2	3919.1	3922.1	3917.6	3914.6
15°	4034.5	4030.0	4019.3	4019.3	4010.2	4011.7	4010.2	4008.7
17.5°	4142.3	4133.2	4125.6	4122.6	4115.0	4113.5	4108.9	4108.9
20°	4260.8	4256.2	4251.7	4245.6	4238.0	4230.4	4228.9	4231.9
22.5°	4403.5	4402.0	4402.0	4398.9	4388.3	4380.7	4376.2	4376.2
25°	4594.8	4581.2	4581.2	4579.6	4575.1	4570.5	4561.4	4566.0
27.5°	4810.4	4802.8	4808.9	4807.4	4802.8	4802.8	4796.8	4796.8
30°	5076.2	5073.1	5082.2	5074.6	5059.5	5057.9	5051.9	5044.3
32.5°	5382.9	5379.9	5393.5	5384.4	5360.1	5346.5	5334.3	5328.2
35°	5724.5	5726.1	5742.8	5736.7	5709.4	5700.2	5679.0	5676.0
37.5°	6098.1	6122.4	6151.2	6157.3	6134.5	6128.4	6105.7	6093.5
40°	6536.9	6568.8	6612.8	6623.5	6599.2	6594.6	6562.7	6546.0
42.5°	7004.6	7059.3	7113.9	7123.0	7098.7	7074.4	7044.1	7031.9
45°	7526.9	7592.2	7663.6	7681.8	7645.4	7616.5	7577.0	7577.0
47.5°	8113.1	8195.1	8275.5	8325.6	8292.2	8261.9	8214.8	8184.4
50°	8805.5	8917.8	9022.6	9074.2	9021.1	8963.4	8881.4	8854.1
52.5°	9674.0	9795.5	9886.6	9859.3	9777.3	9696.8	9607.2	9570.8
55°	10782.5	10823.5	10823.5	10720.2	10556.2	10421.1	10279.9	10232.8
57.5°	12168.8	12010.9	11768.0	11459.7	11072.5	10735.4	10507.6	10399.8
60°	13798.1	13038.9	12181.0	11338.2	10645.8	10074.9	9736.3	9581.4
62.5°	14883.8	12897.7	11178.8	9825.9	8829.8	8141.9	7674.2	7492.0
65°	13910.5	10756.7	8454.7	6836.0	5750.4	5050.4	4587.2	4417.2
67.5°	10188.8	6740.4	4502.2	3226.7	2364.2	1885.9	1696.1	1617.1
70°	4573.6	2373.3	1454.7	1135.8	979.4	898.9	864.0	851.8
72.5°	1378.7	997.6	841.2	759.2	697.0	657.5	628.6	625.6
75°	832.1	692.4	615.0	566.4	526.9	495.0	479.8	475.3
77.5°	581.6	508.7	472.2	437.3	406.9	382.6	369.0	358.4
80°	408.5	373.5	356.8	337.1	317.4	294.6	274.8	265.7
82.5°	273.3	265.7	265.7	253.6	236.9	215.6	176.1	167.0
85°	176.1	174.6	177.7	173.1	161.0	138.2	113.9	107.8
87.5°	82.0	83.5	92.6	91.1	88.1	72.9	57.7	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)