

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: P190844

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190844  
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-06-LED-E1-5NQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30351 lumens  
Efficiency: N/A  
Efficacy: 121.9 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 - G2

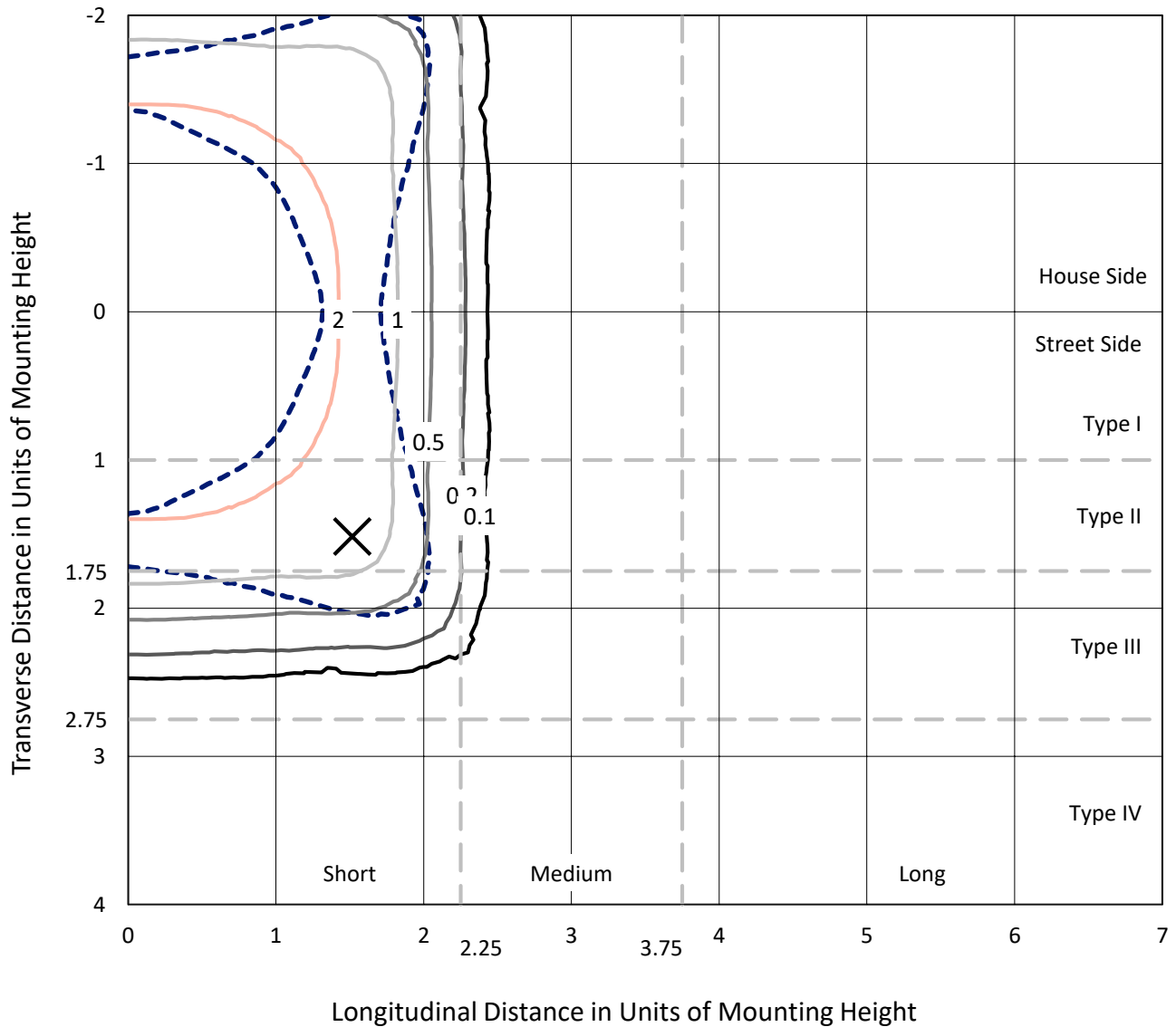
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

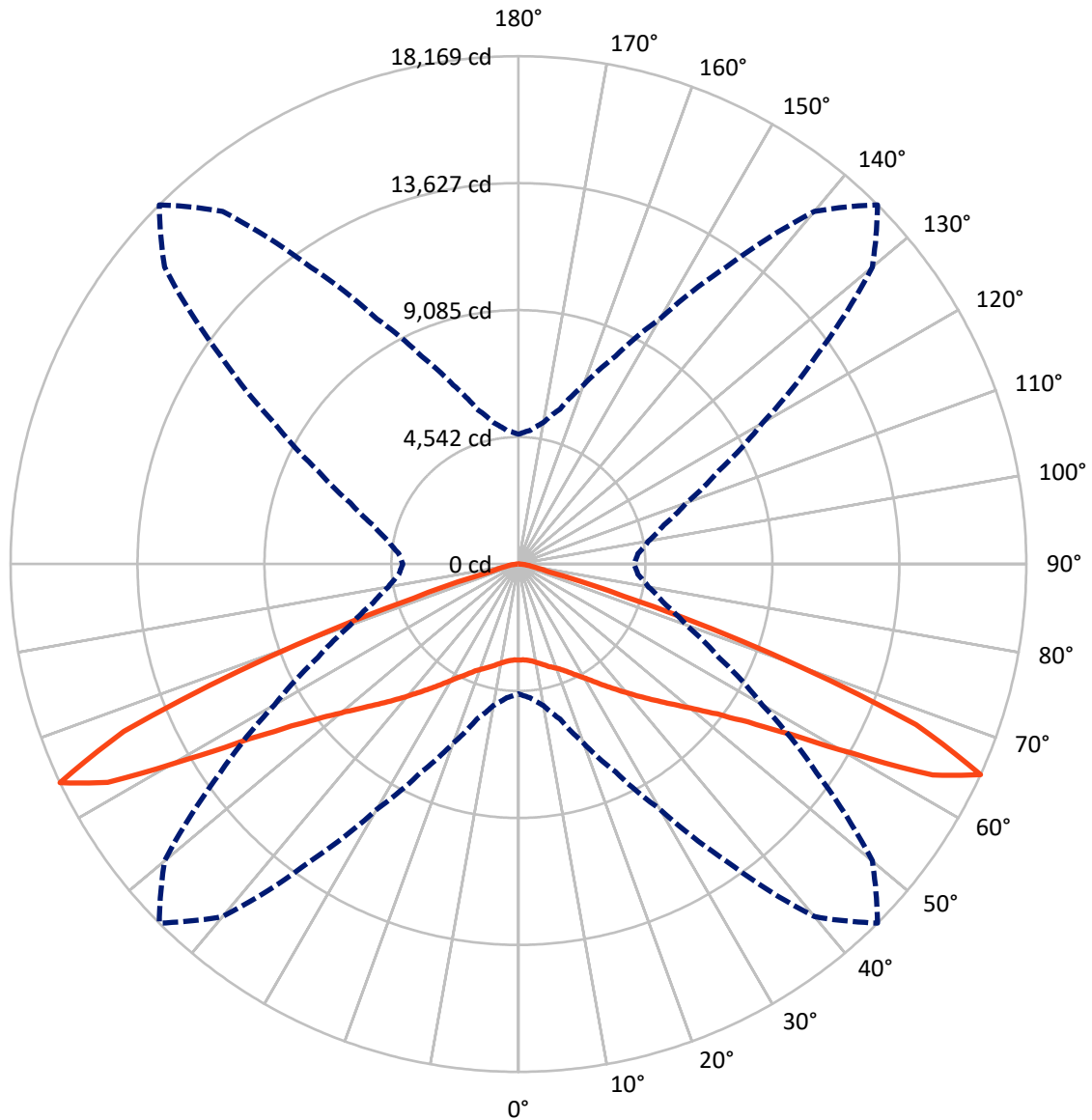
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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	15175.5	0.0	15175.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15175.5	0.0	15175.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30351.0	0.0	30351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.7	1.1
10°-20°	1073.5	3.5
20°-30°	2007.3	6.6
30°-40°	3394.9	11.2
40°-50°	5551.0	18.3
50°-60°	8827.0	29.1
60°-70°	7979.0	26.3
70°-80°	1009.8	3.3
80°-90°	173.7	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°	30351.0	100.0
0°-180°	30351.0	100.0

**Coefficient of Utilization**



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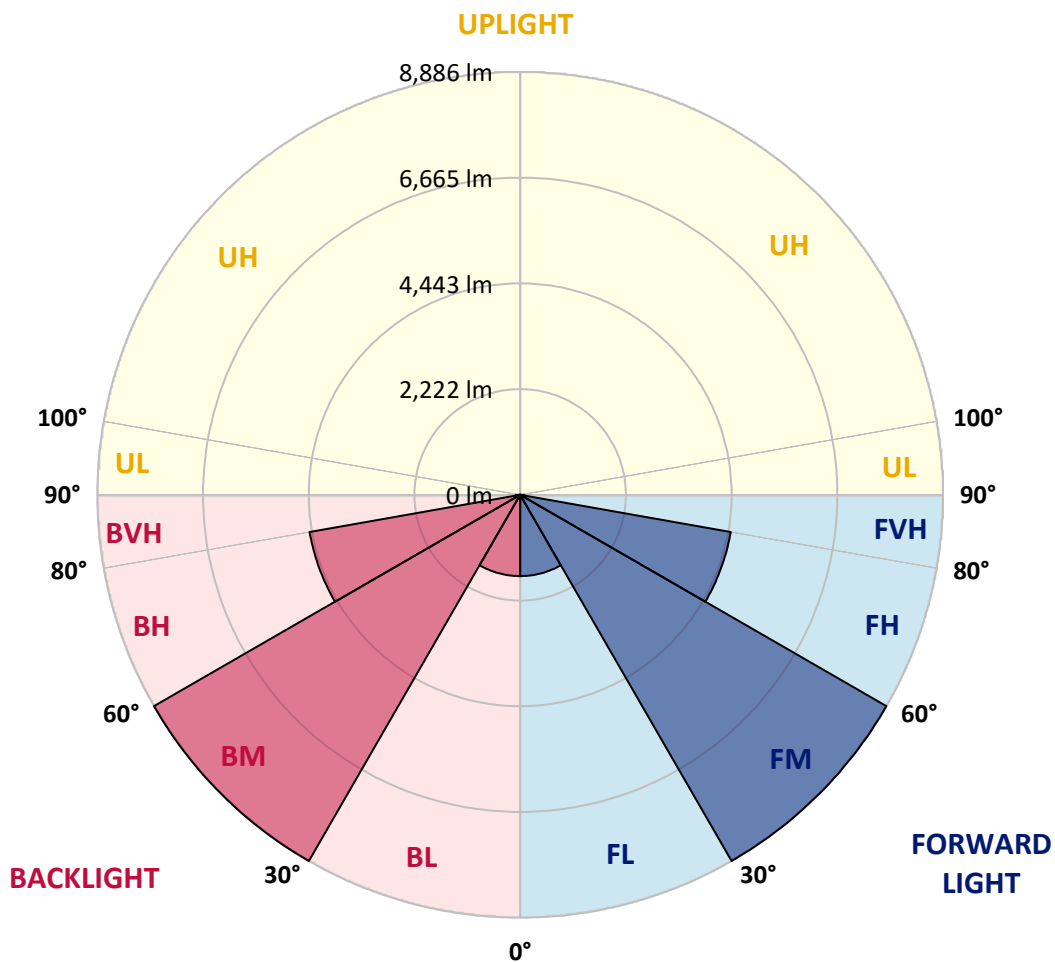
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.8	5.6			
FM	(30°-60°)	8886.5	29.3			
FH	(60°-80°)	4494.4	14.8			G2/5000
FVH	(80°-90°)	86.8	0.3			G1/100
BL	(0°-30°)	1707.8	5.6	B3/2500		
BM	(30°-60°)	8886.5	29.3	B5		
BH	(60°-80°)	4494.4	14.8	B4/5000		G2/5000
BVH	(80°-90°)	86.8	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°	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3
2.5°	3437.1	3439.9	3442.7	3439.9	3442.7	3438.4	3435.7	3439.9	3435.7	3431.4	3434.3
5°	3466.9	3468.3	3468.3	3464.1	3468.3	3465.5	3461.3	3466.9	3462.7	3458.4	3461.3
7.5°	3516.7	3522.3	3518.1	3513.8	3516.7	3513.8	3511.0	3512.4	3511.0	3506.7	3508.1
10°	3583.5	3587.7	3584.9	3583.5	3586.4	3584.9	3582.1	3580.6	3582.1	3577.8	3577.8
12.5°	3664.5	3663.1	3661.7	3663.1	3667.4	3667.4	3665.9	3667.4	3670.1	3671.6	3668.8
15°	3744.1	3747.0	3747.0	3747.0	3755.5	3762.6	3766.8	3769.7	3775.4	3776.8	3771.1
17.5°	3843.6	3843.6	3842.2	3843.6	3852.1	3863.5	3867.8	3873.5	3879.1	3883.4	3876.3
20°	3954.5	3957.3	3957.3	3960.1	3971.5	3984.3	3984.3	3987.2	3984.3	3987.2	3982.9
22.5°	4089.6	4098.0	4098.0	4099.5	4110.8	4126.5	4122.2	4126.5	4119.3	4125.0	4119.3
25°	4265.8	4278.6	4275.7	4275.7	4284.2	4294.2	4295.6	4304.2	4302.7	4309.8	4305.6
27.5°	4464.8	4484.7	4490.3	4488.9	4494.6	4504.6	4507.4	4517.4	4511.7	4517.4	4514.5
30°	4703.6	4712.1	4723.5	4727.8	4734.8	4744.9	4744.9	4746.2	4739.1	4747.6	4751.9
32.5°	4950.9	4966.5	4977.9	5003.6	5016.3	5023.4	5022.0	5024.8	5017.7	5029.1	5037.6
35°	5277.8	5289.3	5307.7	5327.6	5344.6	5343.3	5339.0	5340.4	5340.4	5350.3	5358.8
37.5°	5671.5	5674.4	5698.6	5727.0	5735.6	5727.0	5701.4	5695.8	5683.0	5695.8	5710.0
40°	6088.1	6098.0	6146.4	6164.8	6169.1	6153.5	6116.5	6095.2	6066.7	6082.4	6102.3
42.5°	6524.5	6544.3	6588.4	6621.2	6635.4	6625.3	6574.2	6541.6	6504.5	6513.1	6533.0
45°	7007.7	7032.0	7094.5	7125.8	7152.8	7137.1	7087.3	7037.6	6979.3	6983.6	7014.9
47.5°	7547.9	7572.1	7653.1	7705.7	7719.9	7717.0	7661.6	7593.4	7513.8	7510.9	7537.9
50°	8153.4	8177.6	8278.5	8359.6	8400.8	8396.5	8331.1	8234.4	8137.8	8139.2	8173.4
52.5°	8744.8	8774.7	8879.8	9019.2	9100.2	9158.4	9118.6	9027.6	8909.7	8912.5	8943.8
55°	9299.1	9348.8	9469.7	9658.8	9809.5	9973.0	10019.8	10016.9	9945.8	9965.8	9997.1
57.5°	9567.8	9641.7	9827.9	10126.4	10433.5	10766.0	11047.6	11257.9	11347.5	11482.5	11451.2
60°	9058.9	9176.9	9451.2	9890.5	10497.4	11191.1	11934.5	12660.9	13280.7	13748.3	13479.6
62.5°	7417.1	7570.7	7903.3	8466.1	9384.4	10494.6	11917.5	13634.6	15505.2	16633.8	15827.8
65°	4641.0	4800.2	5138.6	5741.2	6815.8	8196.1	10126.4	12972.1	16467.5	18169.0	16528.6
67.5°	1809.5	1896.2	2079.6	2464.8	3272.2	4500.3	6437.7	9667.3	13847.8	15338.8	13590.5
70°	906.8	915.4	949.5	1020.6	1194.0	1550.8	2359.6	4481.9	7941.7	9591.9	7656.0
72.5°	655.3	656.7	673.8	705.0	760.5	840.0	993.6	1371.7	2582.7	3947.4	2420.7
75°	501.8	507.5	517.4	534.5	564.4	604.2	659.6	790.3	979.4	1135.8	955.2
77.5°	386.7	398.0	405.1	420.7	439.3	466.3	481.9	531.6	618.4	651.0	641.1
80°	294.2	304.2	319.9	332.7	345.5	358.2	352.5	375.2	420.7	447.7	433.5
82.5°	187.6	199.0	244.5	255.8	261.6	270.1	260.1	261.6	281.4	298.5	281.4
85°	120.8	128.0	155.0	169.2	170.5	176.3	172.0	162.0	162.0	147.8	166.3
87.5°	55.4	56.9	69.7	82.4	85.3	76.7	75.3	72.5	58.3	55.4	59.7
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°	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3	3434.3
2.5°	3432.8	3435.7	3437.1	3441.3	3442.7	3442.7	3444.2	3447.0
5°	3459.8	3464.1	3465.5	3471.2	3472.6	3471.2	3474.0	3475.5
7.5°	3508.1	3515.3	3518.1	3523.8	3519.5	3525.2	3526.6	3526.6
10°	3579.2	3586.4	3587.7	3593.4	3590.6	3593.4	3593.4	3590.6
12.5°	3673.0	3674.4	3670.1	3674.4	3668.8	3671.6	3667.4	3664.5
15°	3776.8	3772.5	3762.6	3762.6	3754.0	3755.5	3754.0	3752.6
17.5°	3877.7	3869.2	3862.0	3859.3	3852.1	3850.7	3846.4	3846.4
20°	3988.6	3984.3	3980.1	3974.4	3967.3	3960.1	3958.7	3961.6
22.5°	4122.2	4120.8	4120.8	4118.0	4108.0	4100.9	4096.6	4096.6
25°	4301.3	4288.5	4288.5	4287.1	4282.8	4278.6	4270.0	4274.3
27.5°	4503.1	4496.1	4501.7	4500.3	4496.1	4496.1	4490.3	4490.3
30°	4751.9	4749.0	4757.6	4750.5	4736.3	4734.8	4729.2	4722.0
32.5°	5039.1	5036.2	5049.0	5040.5	5017.7	5004.9	4993.5	4987.9
35°	5358.8	5360.3	5375.9	5370.3	5344.6	5336.1	5316.3	5313.4
37.5°	5708.6	5731.3	5758.3	5764.0	5742.6	5737.0	5715.6	5704.3
40°	6119.4	6149.2	6190.4	6200.4	6177.6	6173.4	6143.5	6127.9
42.5°	6557.1	6608.4	6659.5	6668.0	6645.3	6622.6	6594.1	6582.8
45°	7046.1	7107.3	7174.1	7191.1	7157.0	7130.0	7093.0	7093.0
47.5°	7594.8	7671.6	7746.9	7793.9	7762.6	7734.1	7690.0	7661.6
50°	8243.0	8348.2	8446.3	8494.6	8444.9	8390.9	8314.0	8288.5
52.5°	9056.1	9169.8	9255.0	9229.5	9152.8	9077.4	8993.5	8959.4
55°	10093.8	10132.1	10132.1	10035.5	9881.9	9755.4	9623.2	9579.1
57.5°	11391.5	11243.7	11016.3	10727.7	10365.3	10049.7	9836.5	9735.5
60°	12916.7	12206.0	11402.8	10613.9	9965.8	9431.3	9114.4	8969.3
62.5°	13933.1	12073.8	10464.7	9198.2	8265.7	7621.8	7184.0	7013.5
65°	13022.0	10069.5	7914.7	6399.4	5383.1	4727.8	4294.2	4135.0
67.5°	9537.9	6309.9	4214.6	3020.6	2213.2	1765.4	1587.7	1513.9
70°	4281.5	2221.7	1361.8	1063.3	916.9	841.5	808.8	797.4
72.5°	1290.7	933.9	787.5	710.7	652.4	615.5	588.5	585.6
75°	779.0	648.1	575.7	530.2	493.3	463.4	449.2	444.9
77.5°	544.4	476.2	442.1	409.4	380.9	358.2	345.5	335.4
80°	382.4	349.6	334.0	315.6	297.1	275.8	257.3	248.8
82.5°	255.8	248.8	248.8	237.4	221.8	201.8	164.9	156.4
85°	164.9	163.5	166.3	162.0	150.7	129.3	106.6	101.0
87.5°	76.7	78.2	86.7	85.3	82.4	68.2	54.0	51.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)