

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: P650986

Luminaire Tested: **GALN-SA6C-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27450.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

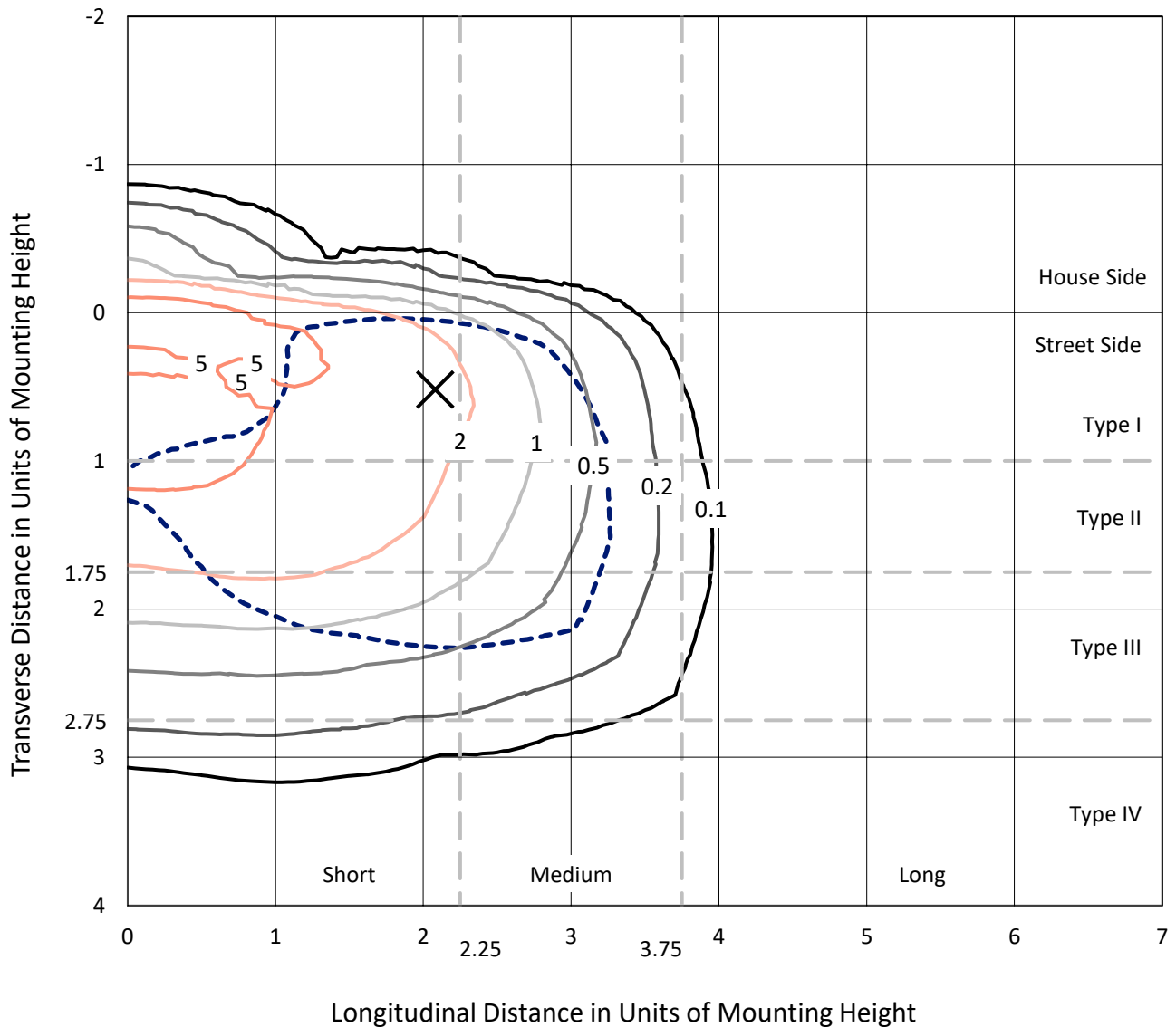
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

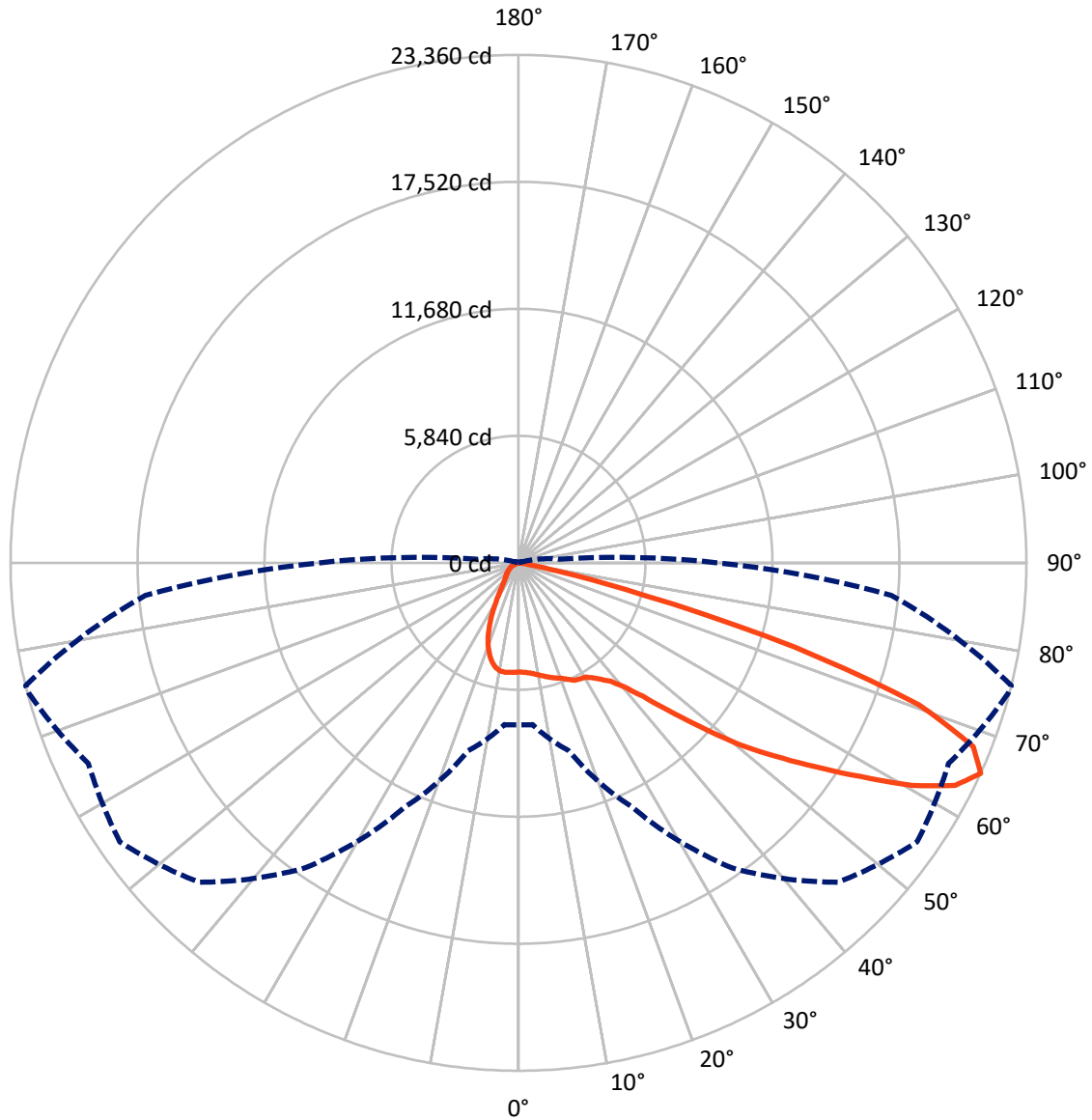
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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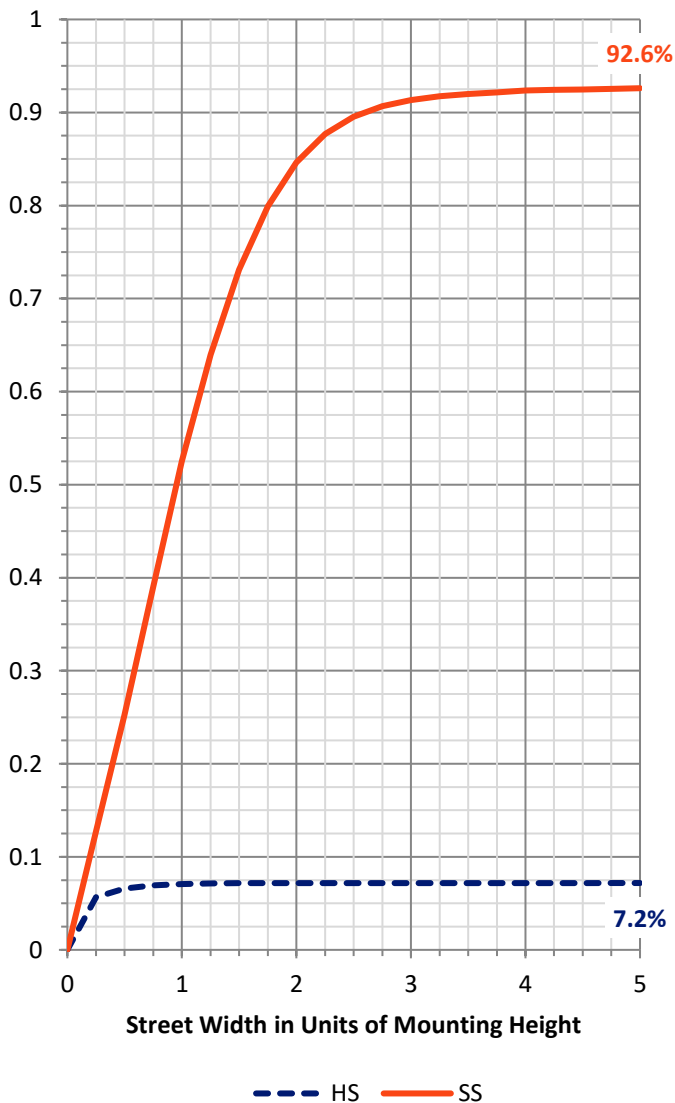
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1982.4	0.0	1982.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25467.8	0.0	25467.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27450.2	0.0	27450.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.6	1.5
10°-20°	921.0	3.4
20°-30°	1484.2	5.4
30°-40°	2580.6	9.4
40°-50°	4264.3	15.5
50°-60°	6587.4	24.0
60°-70°	8044.2	29.3
70°-80°	3053.0	11.1
80°-90°	101.9	0.4
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°	27450.2	100.0
0°-180°	27450.2	100.0

**Coefficient of Utilization**



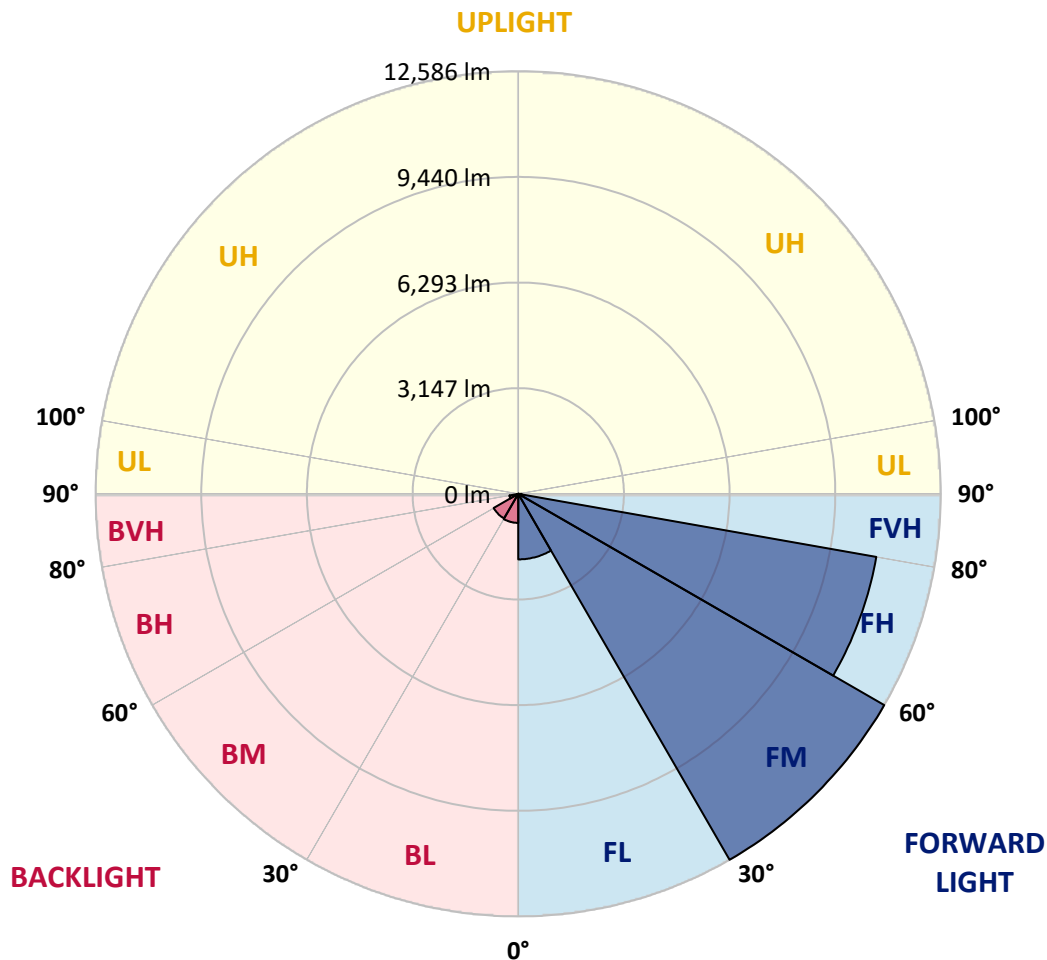
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.8	7.1			
FM (30°-60°)	12586.4	45.9			
FH (60°-80°)	10828.2	39.4			G4/12000
FVH (80°-90°)	100.5	0.4			G2/225
BL (0°-30°)	866.1	3.2	B2/1000		
BM (30°-60°)	846.0	3.1	B1/1000		
BH (60°-80°)	269.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	4798.7	4800.6	4812.2	4841.3	4885.9	4922.7	4953.7	5004.1	5038.9	5042.8	5054.5
5°	4467.2	4444.0	4467.2	4542.8	4610.6	4713.4	4839.4	4965.3	5077.7	5085.4	5139.8
7.5°	4095.2	4114.5	4151.3	4228.9	4356.8	4513.7	4695.9	4920.8	5134.0	5153.3	5259.9
10°	3717.2	3759.9	3819.9	3938.2	4116.4	4320.0	4568.1	4889.7	5223.1	5250.2	5434.4
12.5°	3368.4	3387.7	3461.4	3620.3	3841.3	4128.0	4471.1	4872.3	5321.9	5354.9	5620.4
15°	3100.9	3126.1	3190.1	3333.5	3579.6	3947.8	4391.6	4866.4	5418.8	5465.3	5806.4
17.5°	3050.5	3066.0	3093.1	3190.1	3405.2	3804.4	4320.0	4864.5	5511.8	5568.1	5978.9
20°	3257.9	3244.3	3217.2	3207.5	3325.7	3693.9	4267.7	4880.1	5601.0	5665.0	6161.1
22.5°	3777.3	3794.8	3635.8	3447.8	3409.1	3676.5	4259.8	4953.7	5742.5	5818.0	6364.6
25°	4880.1	4746.4	4498.3	4048.7	3709.5	3783.1	4347.0	5128.1	5907.2	5990.5	6548.7
27.5°	6099.1	6058.4	5672.7	4932.4	4300.5	4008.0	4502.1	5261.9	5961.5	6046.8	6653.4
30°	7296.9	7345.3	6903.3	6085.6	5159.1	4424.6	4647.5	5312.3	6010.0	6099.1	6787.1
32.5°	8407.3	8465.5	8077.9	7267.8	6170.8	5145.6	4897.5	5508.0	6213.5	6304.6	7010.0
35°	9281.4	9289.2	8996.5	8351.1	7275.5	6021.6	5438.2	5851.0	6488.7	6595.2	7246.4
37.5°	10083.8	10072.2	9729.1	9172.9	8196.0	6891.7	6118.4	6246.4	6802.6	6913.1	7587.5
40°	10678.8	10686.5	10576.0	10052.7	9054.6	7696.1	6657.3	6616.6	7329.7	7502.2	8083.7
42.5°	11076.1	11147.7	11202.0	10936.5	10134.1	8686.4	7484.8	7409.2	8244.5	8388.0	8785.3
45°	11397.7	11525.7	11797.0	11783.4	11171.0	9901.6	8620.5	8465.5	9541.1	9694.2	9678.7
47.5°	11632.3	11762.1	12211.7	12483.0	12145.9	11079.9	10048.9	9915.1	11089.6	11256.3	10665.1
50°	11752.4	11907.5	12481.1	13006.3	12907.5	12215.6	11676.9	11684.6	12959.8	13120.7	11808.6
52.5°	11471.4	11673.0	12624.6	13570.3	13762.2	13302.9	13202.1	13457.9	14624.7	14762.2	12841.6
55°	10574.1	10828.0	12428.8	14051.0	14752.6	14585.9	14934.7	15324.3	16444.5	16533.6	13901.7
57.5°	10006.2	10275.6	11851.3	14459.9	15942.5	16198.3	16750.7	17035.5	18322.4	18549.2	15118.8
60°	9527.5	9738.8	11376.5	14547.1	17151.9	18171.3	18708.1	19002.7	20640.4	20787.7	16458.0
62.5°	8731.0	8973.2	10574.1	13938.6	17760.4	19750.8	20863.3	20731.5	22433.1	22535.8	17279.8
65°	7449.9	7471.3	8946.1	12409.5	17132.5	20776.1	22376.9	21824.5	23289.7	23359.5	17215.9
67.5°	5560.3	5765.7	6882.1	9754.3	14471.5	19900.1	22867.2	21853.6	22749.0	22555.2	15849.5
70°	3581.6	3738.5	4664.9	6763.8	10434.5	16607.3	21241.2	20355.5	19965.9	19535.7	12973.4
72.5°	1653.2	1854.7	2771.4	3864.5	6188.2	11829.9	17242.9	16537.5	14370.8	13308.7	8246.4
75°	721.0	771.4	1368.3	2038.8	2901.3	6256.0	11368.7	10265.9	6490.6	5928.5	3300.5
77.5°	439.9	472.9	717.1	1093.0	1139.6	2383.8	6124.2	4478.8	2005.9	1769.5	895.4
80°	298.5	335.3	521.3	571.7	389.6	664.7	2298.5	1195.8	405.0	387.6	191.8
82.5°	145.3	184.1	385.7	319.7	168.6	213.2	668.6	255.8	118.2	110.5	67.9
85°	21.3	36.8	217.1	209.3	75.6	50.4	118.2	63.9	40.7	38.8	31.0
87.5°	0.0	0.0	73.7	33.0	7.7	7.7	13.5	13.5	15.5	13.5	15.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	5060.3	5070.0	5033.1	4980.8	4924.6	4868.4	4789.0	4717.3	4674.6	4699.8	4637.8
5°	5151.4	5143.6	5046.8	4887.8	4676.5	4422.7	4170.7	3955.6	3885.8	3781.1	3769.5
7.5°	5277.4	5256.0	5050.6	4686.2	4209.5	3732.7	3267.5	2959.4	2783.0	2633.8	2637.7
10°	5453.7	5391.7	5006.1	4331.6	3546.7	2827.6	2234.6	1827.6	1651.2	1595.0	1550.5
12.5°	5635.9	5515.7	4882.0	3852.9	2761.8	1932.3	1358.6	1110.5	1002.0	967.1	963.2
15°	5798.7	5608.8	4664.9	3277.3	2007.8	1234.6	926.4	845.0	831.4	833.3	831.4
17.5°	5959.6	5682.4	4364.5	2666.8	1364.4	885.7	796.5	777.2	783.0	790.7	788.8
20°	6093.3	5697.9	3980.8	2035.0	965.1	777.2	748.1	744.2	750.0	755.8	755.8
22.5°	6238.6	5709.5	3525.3	1409.0	788.8	722.9	707.4	707.4	715.2	722.9	724.9
25°	6347.2	5645.5	2980.8	1011.6	695.8	670.5	662.8	664.7	672.5	676.4	674.5
27.5°	6364.6	5465.3	2403.2	775.2	631.8	606.6	598.9	606.6	596.9	602.7	598.9
30°	6380.1	5236.7	1817.9	653.1	573.6	534.9	523.3	511.7	503.9	494.2	492.2
32.5°	6428.5	4967.3	1327.6	587.3	519.4	476.8	449.6	416.7	391.5	383.7	381.8
35°	6449.9	4643.6	974.9	534.9	471.0	424.5	376.0	329.5	292.7	279.0	288.8
37.5°	6531.3	4329.6	755.8	496.1	428.3	370.2	308.1	250.0	215.1	207.4	211.3
40°	6698.0	3988.5	633.8	463.2	391.5	319.7	244.2	188.0	164.8	157.0	155.1
42.5°	6965.4	3649.4	564.0	432.2	354.6	269.4	191.8	147.3	127.9	122.1	122.1
45°	7291.0	3323.8	515.5	399.2	315.9	217.1	151.1	118.2	106.6	102.7	102.7
47.5°	7719.3	3038.9	474.8	366.3	273.2	172.5	122.1	102.7	94.9	96.9	98.8
50°	8153.4	2827.6	430.3	329.5	224.8	141.5	104.6	91.1	89.1	91.1	91.1
52.5°	8481.0	2703.6	370.2	279.0	176.4	118.2	93.0	85.3	83.3	79.5	79.5
55°	8922.8	2676.5	294.6	226.7	139.5	98.8	83.3	77.5	71.7	67.9	65.9
57.5°	9490.7	2707.5	226.7	176.4	108.6	81.4	73.7	63.9	56.2	48.4	48.4
60°	9843.4	2637.7	176.4	135.7	79.5	65.9	56.2	46.5	36.8	31.0	29.1
62.5°	9731.0	2343.1	139.5	100.8	56.2	48.4	36.8	31.0	21.3	15.5	13.5
65°	9151.5	1891.6	112.4	69.8	40.7	29.1	19.3	19.3	9.7	1.9	0.0
67.5°	8010.0	1401.2	89.1	46.5	23.3	13.5	9.7	5.8	0.0	0.0	0.0
70°	6519.7	1011.6	69.8	29.1	13.5	9.7	3.9	1.9	0.0	0.0	0.0
72.5°	4139.7	579.4	54.2	17.4	9.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	1600.8	226.7	36.8	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	453.5	106.6	21.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.2	46.5	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.2	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.0	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)