

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: P531309

Luminaire Tested: **GALN-SA6C-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-750-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27572 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

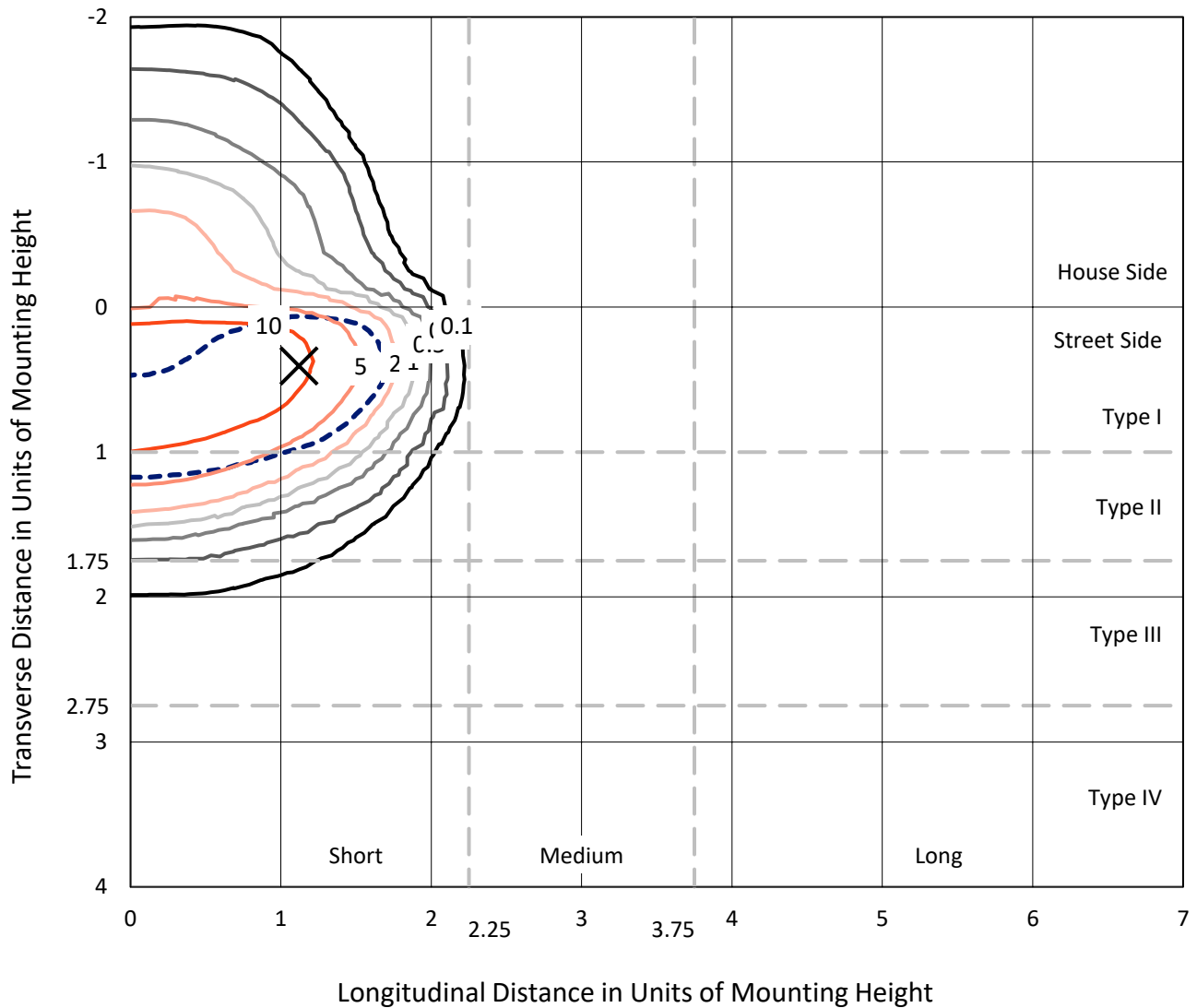
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

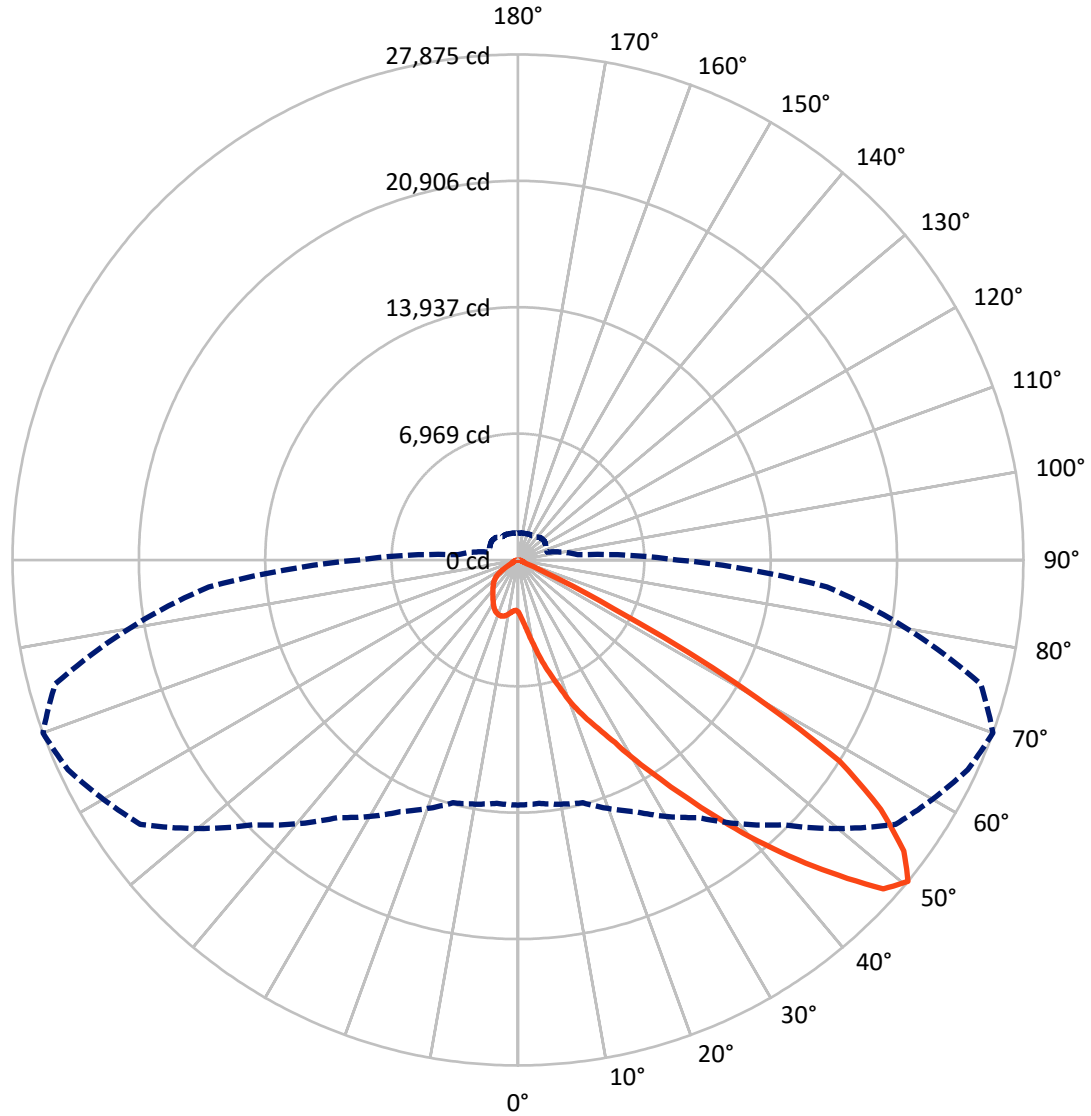
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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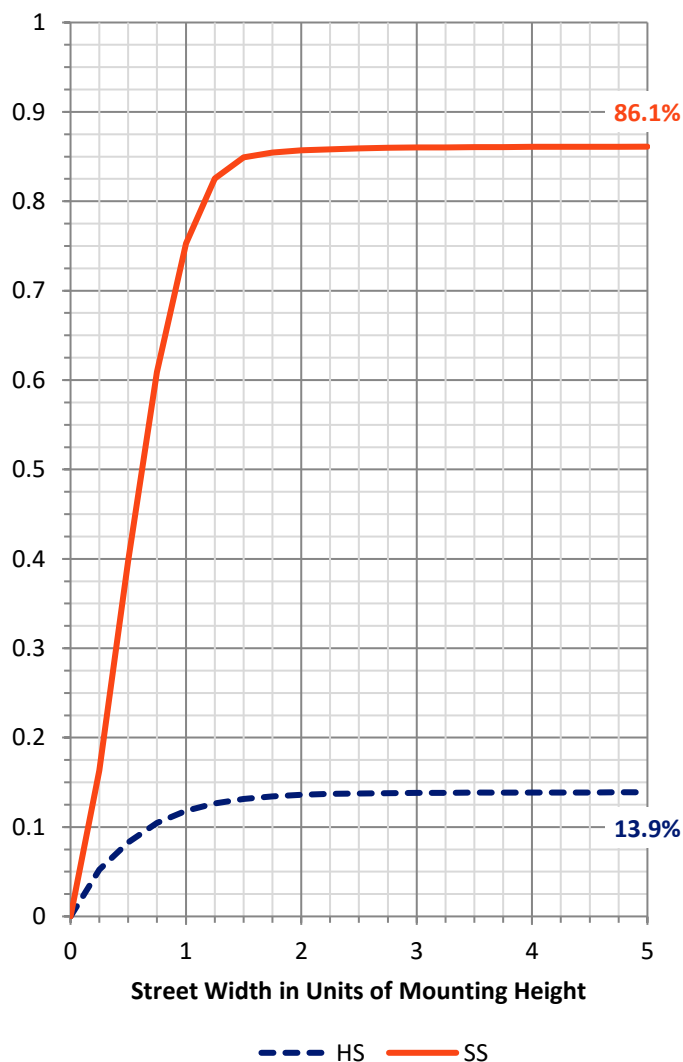
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3850.6	0.0	3850.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	23721.4	0.0	23721.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	27572.0	0.0	27572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.4	1.3
10°-20°	1606.4	5.8
20°-30°	3370.0	12.2
30°-40°	5808.8	21.1
40°-50°	8489.5	30.8
50°-60°	6611.9	24.0
60°-70°	1120.3	4.1
70°-80°	153.9	0.6
80°-90°	39.9	0.1
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°	27572.0	100.0
0°-180°	27572.0	100.0

**Coefficient of Utilization**



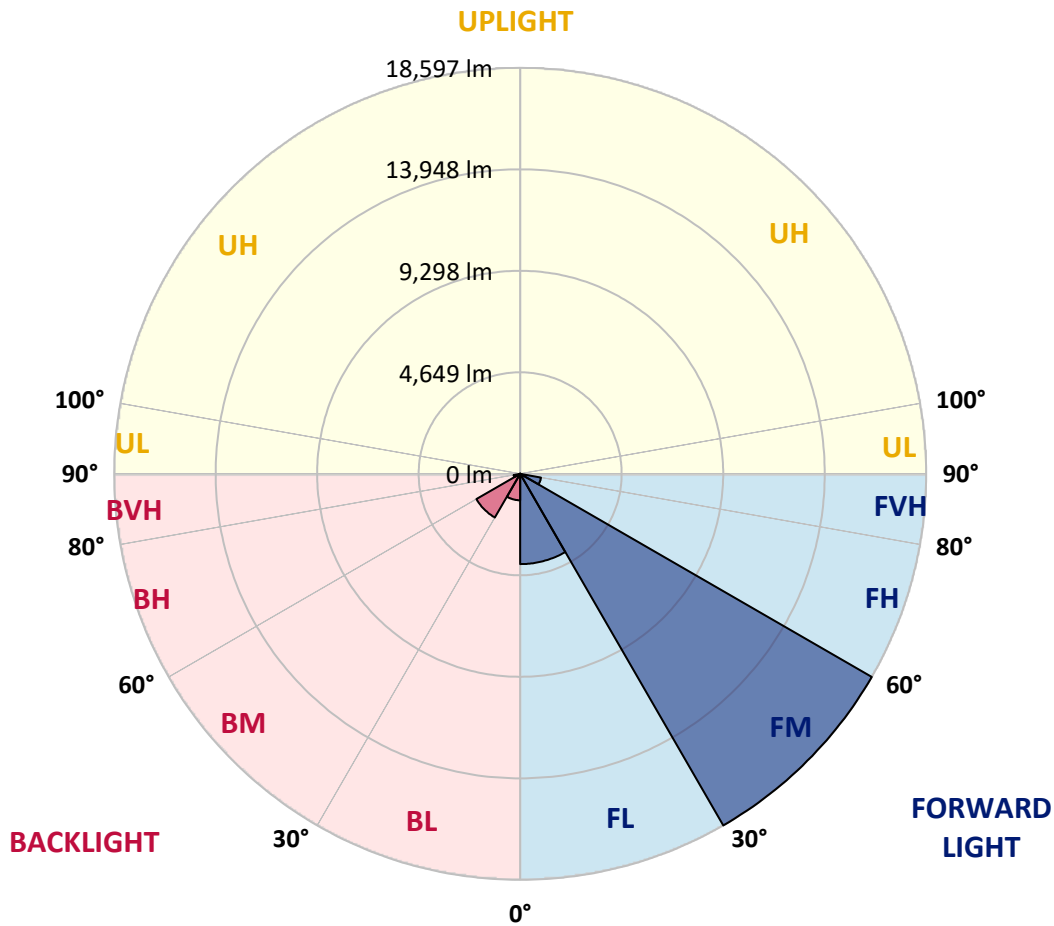
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4136.1	15.0			
FM (30°-60°)	18596.8	67.4			
FH (60°-80°)	970.0	3.5			G1/1800
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1211.7	4.4	B3/2500		
BM (30°-60°)	2313.3	8.4	B2/2500		
BH (60°-80°)	304.2	1.1	B1/500		G1/500
BVH (80°-90°)	21.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	3739.9	3712.7	3653.8	3545.0	3499.6	3390.8	3327.4	3205.0	3127.9	3041.8	2946.6
5°	5267.6	5127.0	5040.9	4918.5	4560.4	4338.3	3971.1	3658.3	3513.2	3354.6	3137.0
7.5°	6845.1	6754.5	6636.6	6373.7	6128.9	5666.5	5036.4	4347.3	4052.7	3780.7	3350.0
10°	8150.7	7896.8	7883.2	7688.3	7420.8	6867.8	6110.8	5254.0	4728.1	4329.2	3653.8
12.5°	9061.9	8830.7	8934.9	8912.3	8662.9	8155.2	7280.3	6147.0	5598.5	4977.5	3966.6
15°	9891.4	9796.2	9764.5	9737.3	9637.6	9261.3	8477.1	7235.0	6441.7	5693.7	4320.1
17.5°	10702.9	10458.1	10576.0	10598.6	10589.6	10249.6	9515.2	8268.6	7334.7	6450.7	4691.9
20°	11423.7	11446.3	11287.7	11255.9	11228.7	11215.1	10498.9	9293.1	8431.8	7244.1	5176.9
22.5°	12348.4	12189.8	12330.3	12239.6	12062.8	11954.0	11405.5	10199.7	9383.7	8200.6	5671.0
25°	13440.9	13567.9	13236.9	13200.7	13005.8	12629.5	12135.4	11215.1	10299.4	9089.1	6206.0
27.5°	14787.3	14565.2	14479.0	14279.6	13926.0	13767.3	13187.1	12262.3	11405.5	10022.9	6722.7
30°	15943.3	15884.3	15453.7	15218.0	14909.7	14905.2	14093.7	13681.2	12847.1	11487.1	7434.4
32.5°	16886.2	16627.8	16469.1	16305.9	16056.6	16124.6	15440.1	15222.5	14383.8	12847.1	8273.1
35°	17516.3	17330.4	17235.2	16985.9	16913.4	17217.1	16931.5	16840.8	16151.8	14760.1	9256.8
37.5°	17715.7	17774.7	17756.5	17443.8	17597.9	18418.4	18785.6	18549.9	18187.2	16777.4	10322.1
40°	17892.5	17933.3	17842.7	18209.9	18649.6	19583.4	20911.7	20521.8	20385.8	18821.8	11804.5
42.5°	17992.3	17960.5	17960.5	18595.2	19261.6	21138.3	22965.2	22706.8	22602.5	20997.8	13518.0
45°	17561.6	17253.4	17584.3	18445.6	19787.4	21904.4	24606.2	24964.3	24814.7	23586.2	15521.7
47.5°	15952.3	16142.7	16328.6	17480.0	19148.2	21668.7	25612.6	26832.0	27108.5	25762.2	16836.3
50°	13518.0	13477.2	13862.5	15313.2	17339.5	20653.3	25417.7	27371.5	27874.6	26415.0	17112.8
52.5°	9832.5	10131.7	10548.8	11990.3	14392.9	18024.0	22901.7	25979.8	26650.7	25612.6	16931.5
55°	5725.4	5394.5	6332.9	7552.3	9818.9	13595.1	19361.3	23028.7	24270.8	24152.9	16015.8
57.5°	2293.8	2221.3	2543.1	3427.1	5122.5	8427.2	14080.1	18921.6	20911.7	22122.0	14075.6
60°	1006.4	983.7	1156.0	1396.2	2094.3	3885.0	7701.9	11768.2	13844.4	15458.2	9687.4
62.5°	725.3	716.2	802.4	888.5	1106.1	1690.9	3236.7	4741.7	5911.3	7139.8	4338.3
65°	584.8	607.4	666.4	711.7	816.0	938.4	1142.4	1319.2	1618.4	1677.3	956.5
67.5°	476.0	494.1	548.5	598.4	616.5	507.7	525.9	462.4	462.4	412.5	330.9
70°	349.1	353.6	417.1	476.0	380.8	204.0	358.1	358.1	321.9	308.3	281.1
72.5°	258.4	262.9	312.8	294.7	149.6	126.9	262.9	290.1	262.9	249.3	226.7
75°	190.4	194.9	163.2	68.0	63.5	81.6	154.1	199.5	190.4	185.9	172.3
77.5°	36.3	27.2	22.7	31.7	45.3	68.0	99.7	122.4	126.9	136.0	126.9
80°	4.5	4.5	13.6	27.2	49.9	72.5	104.3	117.9	122.4	126.9	117.9
82.5°	0.0	4.5	13.6	27.2	49.9	68.0	90.7	104.3	113.3	117.9	113.3
85°	0.0	4.5	9.1	22.7	40.8	49.9	45.3	31.7	27.2	31.7	22.7
87.5°	0.0	0.0	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2892.2	2874.0	2810.6	2742.6	2683.7	2710.9	2683.7	2661.0	2670.1	2661.0	2651.9
5°	3050.8	2969.2	2833.3	2774.3	2724.5	2719.9	2706.3	2701.8	2706.3	2706.3	2665.5
7.5°	3200.4	3069.0	2923.9	2860.4	2801.5	2806.1	2774.3	2774.3	2769.8	2747.1	2738.1
10°	3427.1	3250.3	3064.4	2951.1	2878.6	2865.0	2833.3	2801.5	2801.5	2801.5	2756.2
12.5°	3676.4	3454.3	3200.4	3069.0	2982.8	2914.8	2865.0	2855.9	2806.1	2797.0	2774.3
15°	3894.0	3613.0	3291.1	3109.8	3001.0	2910.3	2833.3	2783.4	2760.7	2747.1	2729.0
17.5°	4107.1	3749.0	3341.0	3109.8	2991.9	2887.6	2806.1	2760.7	2706.3	2715.4	2679.1
20°	4392.7	3894.0	3354.6	3050.8	2905.8	2806.1	2697.3	2674.6	2642.9	2615.7	2624.7
22.5°	4669.2	3998.3	3313.8	2978.3	2769.8	2651.9	2597.5	2570.3	2556.7	2534.1	2502.3
25°	4918.5	4111.6	3250.3	2846.8	2624.7	2538.6	2488.7	2484.2	2452.5	2452.5	2393.5
27.5°	5172.4	4152.4	3141.5	2692.7	2497.8	2447.9	2425.3	2416.2	2402.6	2370.9	2330.1
30°	5462.5	4166.0	2982.8	2534.1	2384.5	2330.1	2361.8	2384.5	2325.5	2266.6	2284.7
32.5°	5702.8	4134.3	2792.5	2384.5	2302.9	2275.7	2339.1	2361.8	2293.8	2230.3	2198.6
35°	5992.9	4057.2	2606.6	2266.6	2221.3	2275.7	2330.1	2330.1	2194.1	2117.0	2098.9
37.5°	6432.6	3971.1	2434.3	2166.9	2135.1	2248.5	2321.0	2271.1	2058.1	1962.9	1940.2
40°	6904.1	3916.7	2266.6	2067.1	2089.8	2203.1	2243.9	2089.8	1872.2	1813.3	1795.1
42.5°	7588.6	3807.9	2117.0	1981.0	2049.0	2139.7	2139.7	1863.1	1781.5	1749.8	1745.3
45°	8440.8	3730.8	1985.5	1908.5	1990.1	2012.7	1940.2	1745.3	1686.4	1677.3	1681.8
47.5°	8857.9	3581.2	1849.5	1822.3	1881.3	1885.8	1695.4	1650.1	1600.2	1586.6	1577.6
50°	8794.4	3313.8	1672.8	1709.0	1790.6	1745.3	1545.8	1554.9	1509.6	1505.0	1482.4
52.5°	8350.2	2892.2	1496.0	1582.1	1672.8	1541.3	1423.4	1414.4	1414.4	1355.4	1332.8
55°	7402.7	2330.1	1282.9	1391.7	1500.5	1296.5	1264.8	1255.7	1233.0	1178.6	1165.0
57.5°	5861.4	1709.0	965.6	1083.4	1273.8	1101.6	1097.0	1056.2	997.3	956.5	956.5
60°	3486.0	983.7	607.4	661.8	843.2	893.0	992.8	974.6	874.9	811.4	793.3
62.5°	1591.2	507.7	385.3	394.4	453.3	580.2	779.7	902.1	761.6	652.8	643.7
65°	534.9	376.3	317.3	303.7	312.8	349.1	466.9	639.2	607.4	503.2	485.1
67.5°	326.4	335.5	299.2	276.5	276.5	272.0	267.5	290.1	358.1	349.1	353.6
70°	281.1	308.3	276.5	249.3	240.3	226.7	190.4	158.7	136.0	158.7	167.7
72.5°	226.7	244.8	235.7	213.1	190.4	172.3	136.0	104.3	77.1	68.0	68.0
75°	167.7	181.3	190.4	163.2	145.1	122.4	99.7	68.0	40.8	27.2	27.2
77.5°	122.4	136.0	140.5	126.9	108.8	86.1	63.5	45.3	22.7	9.1	9.1
80°	104.3	122.4	136.0	126.9	113.3	81.6	58.9	31.7	18.1	4.5	4.5
82.5°	99.7	122.4	136.0	122.4	108.8	77.1	58.9	36.3	13.6	4.5	4.5
85°	22.7	31.7	40.8	49.9	58.9	58.9	45.3	27.2	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	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)