

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: P531231

Luminaire Tested: **GALN-SA6C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531231  
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-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 25111 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

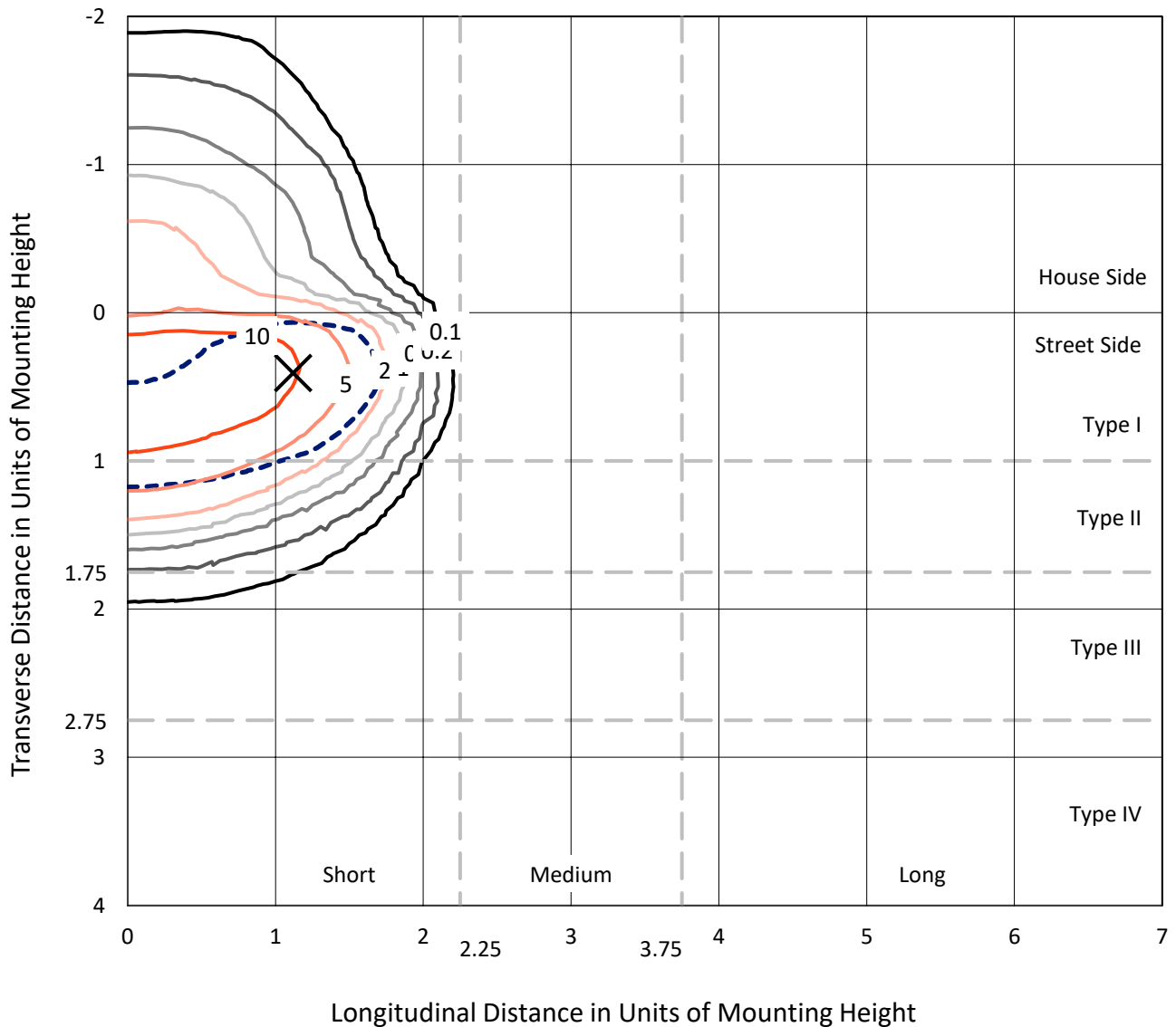
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

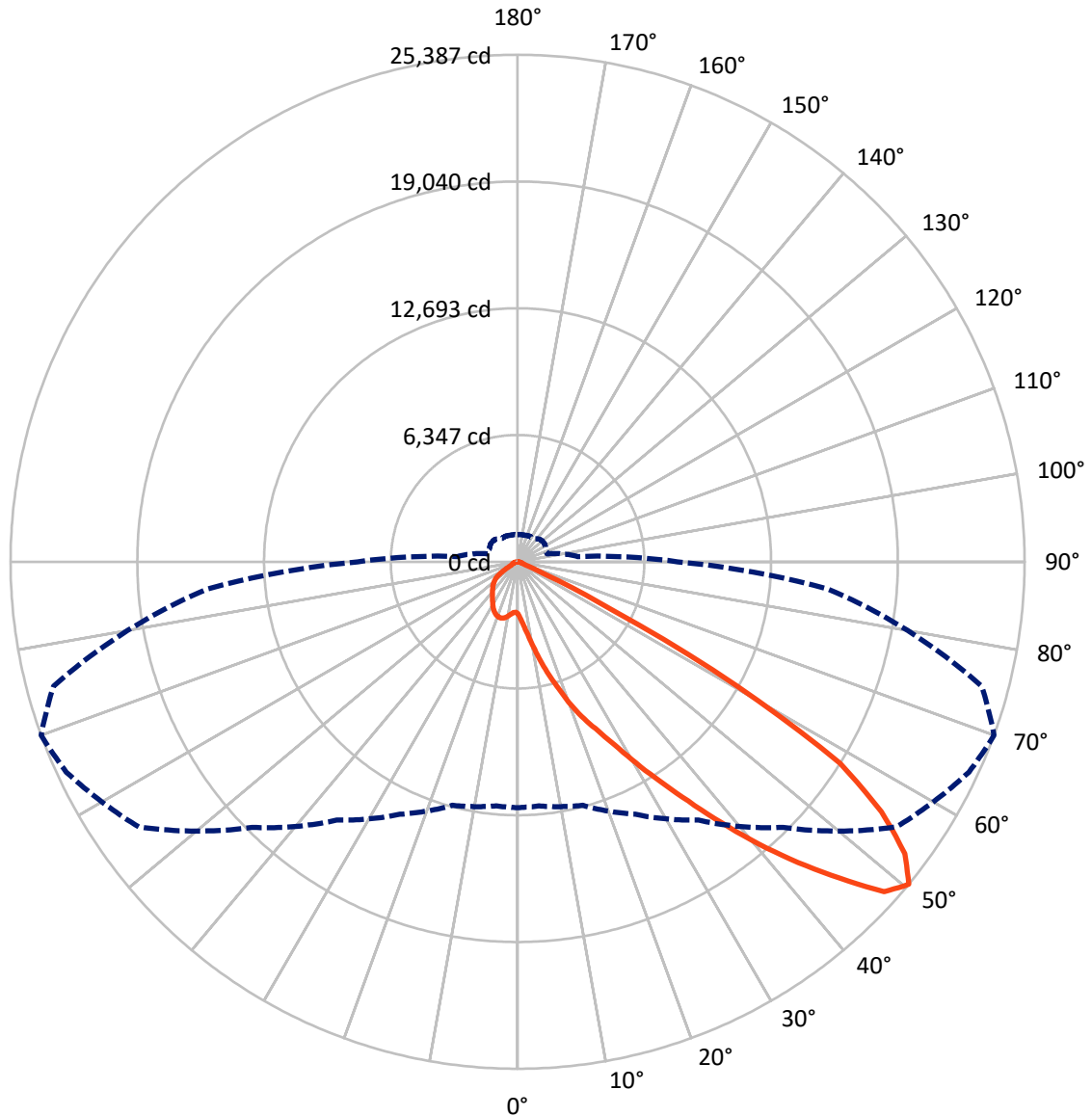
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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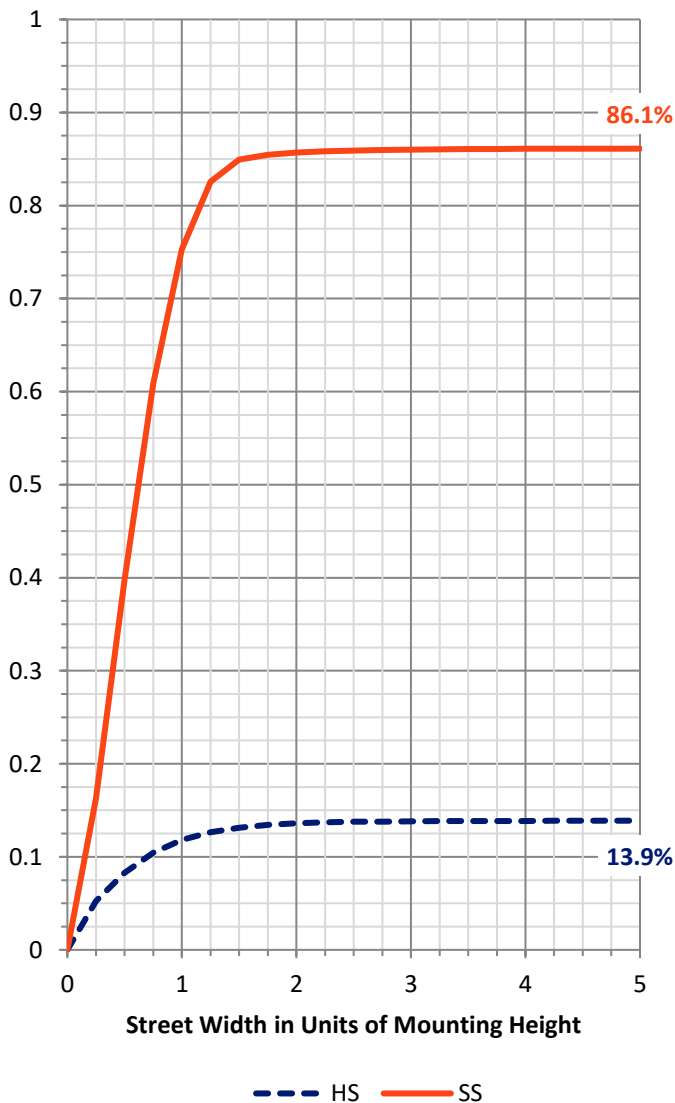
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3506.9	0.0	3506.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	21604.1	0.0	21604.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	25111.0	0.0	25111.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.2	1.3
10°-20°	1463.0	5.8
20°-30°	3069.2	12.2
30°-40°	5290.3	21.1
40°-50°	7731.7	30.8
50°-60°	6021.7	24.0
60°-70°	1020.3	4.1
70°-80°	140.2	0.6
80°-90°	36.3	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°	25111.0	100.0
0°-180°	25111.0	100.0

**Coefficient of Utilization**



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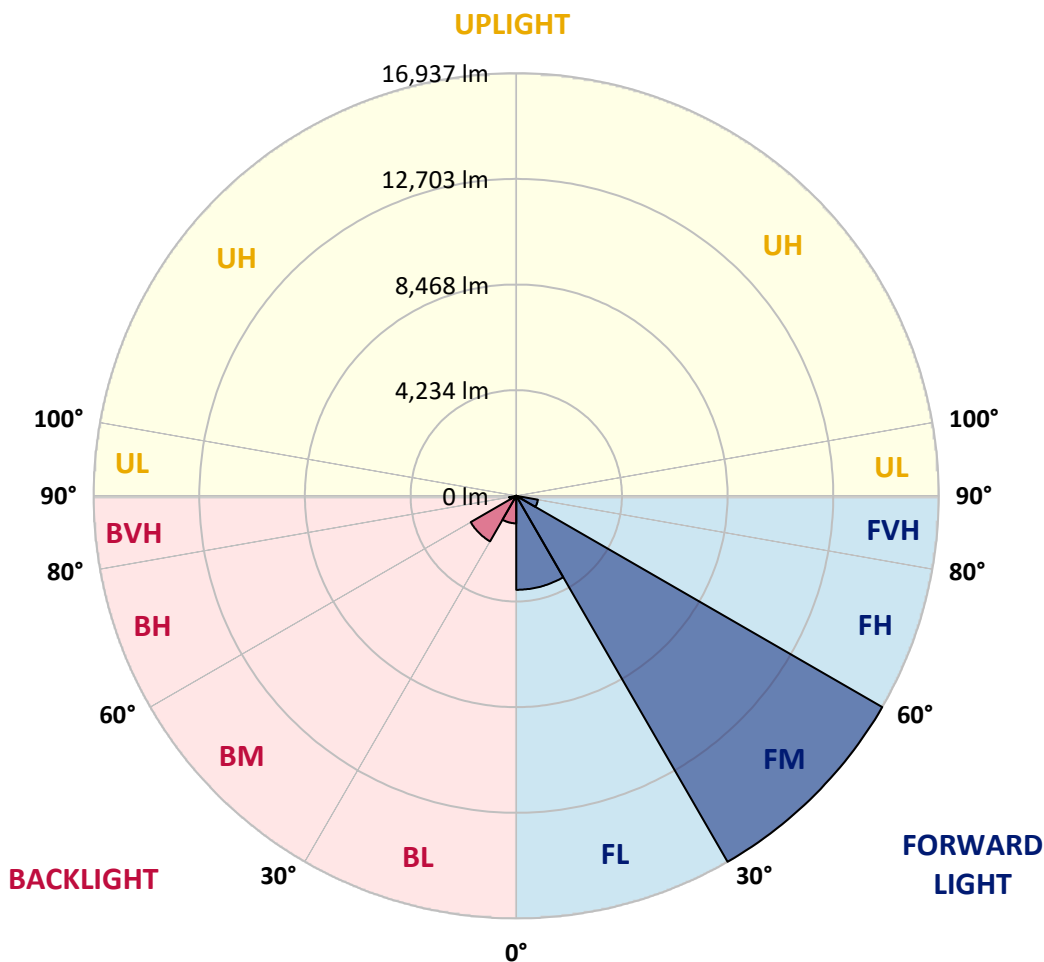
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.9	15.0			
FM (30°-60°)	16936.9	67.4			
FH (60°-80°)	883.4	3.5			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1103.5	4.4	B3/2500		
BM (30°-60°)	2106.8	8.4	B2/2500		
BH (60°-80°)	277.0	1.1	B1/500		G1/500
BVH (80°-90°)	19.5	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°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	3406.1	3381.3	3327.6	3228.5	3187.3	3088.2	3030.4	2918.9	2848.7	2770.3	2683.6
5°	4797.4	4669.4	4591.0	4479.5	4153.4	3951.1	3616.6	3331.8	3199.6	3055.1	2857.0
7.5°	6234.2	6151.6	6044.2	5804.8	5581.8	5160.7	4586.9	3959.3	3691.0	3443.2	3051.0
10°	7423.2	7192.0	7179.6	7002.1	6758.5	6254.8	5565.3	4785.0	4306.1	3942.8	3327.6
12.5°	8253.0	8042.5	8137.4	8116.8	7889.7	7427.3	6630.5	5598.4	5098.8	4533.2	3612.5
15°	9008.6	8921.9	8893.0	8868.2	8777.4	8434.7	7720.4	6589.2	5866.7	5185.5	3934.5
17.5°	9747.6	9524.6	9632.0	9652.6	9644.4	9334.7	8665.9	7530.5	6680.0	5875.0	4273.1
20°	10404.0	10424.7	10280.2	10251.3	10226.5	10214.1	9561.8	8463.6	7679.2	6597.5	4714.8
22.5°	11246.3	11101.8	11229.7	11147.2	10986.2	10887.1	10387.5	9289.3	8546.2	7468.6	5164.9
25°	12241.2	12356.8	12055.5	12022.4	11844.9	11502.2	11052.2	10214.1	9380.1	8277.8	5652.0
27.5°	13467.4	13265.1	13186.7	13005.0	12683.0	12538.5	12010.0	11167.8	10387.5	9128.3	6122.7
30°	14520.2	14466.5	14074.3	13859.6	13578.9	13574.8	12835.8	12460.1	11700.4	10461.8	6770.9
32.5°	15379.0	15143.6	14999.1	14850.5	14623.4	14685.4	14061.9	13863.8	13100.0	11700.4	7534.7
35°	15952.8	15783.6	15696.9	15469.8	15403.7	15680.3	15420.2	15337.7	14710.1	13442.7	8430.6
37.5°	16134.5	16188.2	16171.6	15886.8	16027.1	16774.4	17108.8	16894.1	16563.9	15279.9	9400.8
40°	16295.5	16332.7	16250.1	16584.5	16985.0	17835.5	19045.1	18690.1	18566.2	17141.9	10750.8
42.5°	16386.3	16357.4	16357.4	16935.4	17542.3	19251.6	20915.4	20680.1	20585.1	19123.6	12311.4
45°	15994.1	15713.4	16014.8	16799.2	18021.2	19949.3	22409.9	22736.1	22599.8	21481.0	14136.3
47.5°	14528.5	14701.9	14871.1	15919.8	17439.1	19734.6	23326.5	24437.1	24688.9	23462.7	15333.5
50°	12311.4	12274.3	12625.2	13946.3	15791.8	18809.8	23148.9	24928.4	25386.6	24057.2	15585.4
52.5°	8954.9	9227.4	9607.2	10920.1	13108.2	16415.2	20857.6	23660.9	24271.9	23326.5	15420.2
55°	5214.4	4913.0	5767.6	6878.2	8942.5	12381.6	17633.2	20973.2	22104.4	21997.1	14586.3
57.5°	2089.1	2023.0	2316.1	3121.2	4665.3	7675.0	12823.4	17232.7	19045.1	20147.5	12819.2
60°	916.5	895.9	1052.8	1271.6	1907.4	3538.2	7014.5	10717.8	12608.7	14078.5	8822.8
62.5°	660.6	652.3	730.8	809.2	1007.4	1540.0	2947.8	4318.5	5383.7	6502.5	3951.1
65°	532.6	553.2	606.9	648.2	743.1	854.6	1040.4	1201.4	1473.9	1527.6	871.1
67.5°	433.5	450.0	499.6	545.0	561.5	462.4	478.9	421.1	421.1	375.7	301.4
70°	317.9	322.0	379.8	433.5	346.8	185.8	326.2	326.2	293.1	280.7	256.0
72.5°	235.3	239.5	284.9	268.4	136.2	115.6	239.5	264.2	239.5	227.1	206.4
75°	173.4	177.5	148.6	61.9	57.8	74.3	140.4	181.7	173.4	169.3	156.9
77.5°	33.0	24.8	20.6	28.9	41.3	61.9	90.8	111.5	115.6	123.9	115.6
80°	4.1	4.1	12.4	24.8	45.4	66.1	95.0	107.3	111.5	115.6	107.3
82.5°	0.0	4.1	12.4	24.8	45.4	61.9	82.6	95.0	103.2	107.3	103.2
85°	0.0	4.1	8.3	20.6	37.2	45.4	41.3	28.9	24.8	28.9	20.6
87.5°	0.0	0.0	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2634.0	2617.5	2559.7	2497.8	2444.1	2468.9	2444.1	2423.5	2431.7	2423.5	2415.2
5°	2778.5	2704.2	2580.4	2526.7	2481.3	2477.1	2464.8	2460.6	2464.8	2464.8	2427.6
7.5°	2914.8	2795.0	2662.9	2605.1	2551.5	2555.6	2526.7	2526.7	2522.6	2501.9	2493.7
10°	3121.2	2960.2	2790.9	2687.7	2621.6	2609.3	2580.4	2551.5	2551.5	2551.5	2510.2
12.5°	3348.3	3146.0	2914.8	2795.0	2716.6	2654.7	2609.3	2601.0	2555.6	2547.3	2526.7
15°	3546.4	3290.5	2997.3	2832.2	2733.1	2650.5	2580.4	2534.9	2514.3	2501.9	2485.4
17.5°	3740.5	3414.3	3042.8	2832.2	2724.9	2629.9	2555.6	2514.3	2464.8	2473.0	2440.0
20°	4000.6	3546.4	3055.1	2778.5	2646.4	2555.6	2456.5	2435.9	2407.0	2382.2	2390.4
22.5°	4252.4	3641.4	3018.0	2712.5	2522.6	2415.2	2365.7	2340.9	2328.5	2307.9	2279.0
25°	4479.5	3744.6	2960.2	2592.7	2390.4	2312.0	2266.6	2262.5	2233.6	2233.6	2179.9
27.5°	4710.7	3781.8	2861.1	2452.4	2274.8	2229.4	2208.8	2200.5	2188.1	2159.2	2122.1
30°	4974.9	3794.2	2716.6	2307.9	2171.6	2122.1	2151.0	2171.6	2118.0	2064.3	2080.8
32.5°	5193.8	3765.3	2543.2	2171.6	2097.3	2072.5	2130.3	2151.0	2089.1	2031.3	2002.4
35°	5458.0	3695.1	2373.9	2064.3	2023.0	2072.5	2122.1	2122.1	1998.2	1928.0	1911.5
37.5°	5858.5	3616.6	2217.0	1973.5	1944.6	2047.8	2113.8	2068.4	1874.4	1787.7	1767.0
40°	6287.8	3567.1	2064.3	1882.6	1903.3	2006.5	2043.6	1903.3	1705.1	1651.4	1634.9
42.5°	6911.2	3468.0	1928.0	1804.2	1866.1	1948.7	1948.7	1696.8	1622.5	1593.6	1589.5
45°	7687.4	3397.8	1808.3	1738.1	1812.4	1833.1	1767.0	1589.5	1535.8	1527.6	1531.7
47.5°	8067.2	3261.6	1684.5	1659.7	1713.4	1717.5	1544.1	1502.8	1457.4	1445.0	1436.7
50°	8009.4	3018.0	1523.4	1556.5	1630.8	1589.5	1407.8	1416.1	1374.8	1370.7	1350.0
52.5°	7604.8	2634.0	1362.4	1440.9	1523.4	1403.7	1296.4	1288.1	1288.1	1234.4	1213.8
55°	6742.0	2122.1	1168.4	1267.5	1366.6	1180.8	1151.9	1143.6	1123.0	1073.4	1061.0
57.5°	5338.3	1556.5	879.4	986.7	1160.1	1003.2	999.1	962.0	908.3	871.1	871.1
60°	3174.9	895.9	553.2	602.8	767.9	813.3	904.2	887.6	796.8	739.0	722.5
62.5°	1449.1	462.4	350.9	359.2	412.9	528.5	710.1	821.6	693.6	594.5	586.3
65°	487.2	342.7	289.0	276.6	284.9	317.9	425.2	582.1	553.2	458.3	441.8
67.5°	297.3	305.5	272.5	251.8	251.8	247.7	243.6	264.2	326.2	317.9	322.0
70°	256.0	280.7	251.8	227.1	218.8	206.4	173.4	144.5	123.9	144.5	152.8
72.5°	206.4	222.9	214.7	194.0	173.4	156.9	123.9	95.0	70.2	61.9	61.9
75°	152.8	165.1	173.4	148.6	132.1	111.5	90.8	61.9	37.2	24.8	24.8
77.5°	111.5	123.9	128.0	115.6	99.1	78.4	57.8	41.3	20.6	8.3	8.3
80°	95.0	111.5	123.9	115.6	103.2	74.3	53.7	28.9	16.5	4.1	4.1
82.5°	90.8	111.5	123.9	111.5	99.1	70.2	53.7	33.0	12.4	4.1	4.1
85°	20.6	28.9	37.2	45.4	53.7	53.7	41.3	24.8	12.4	4.1	4.1
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	4.1	4.1	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)