

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: P647624

Luminaire Tested: **GALN-SA8D-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49848.1 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

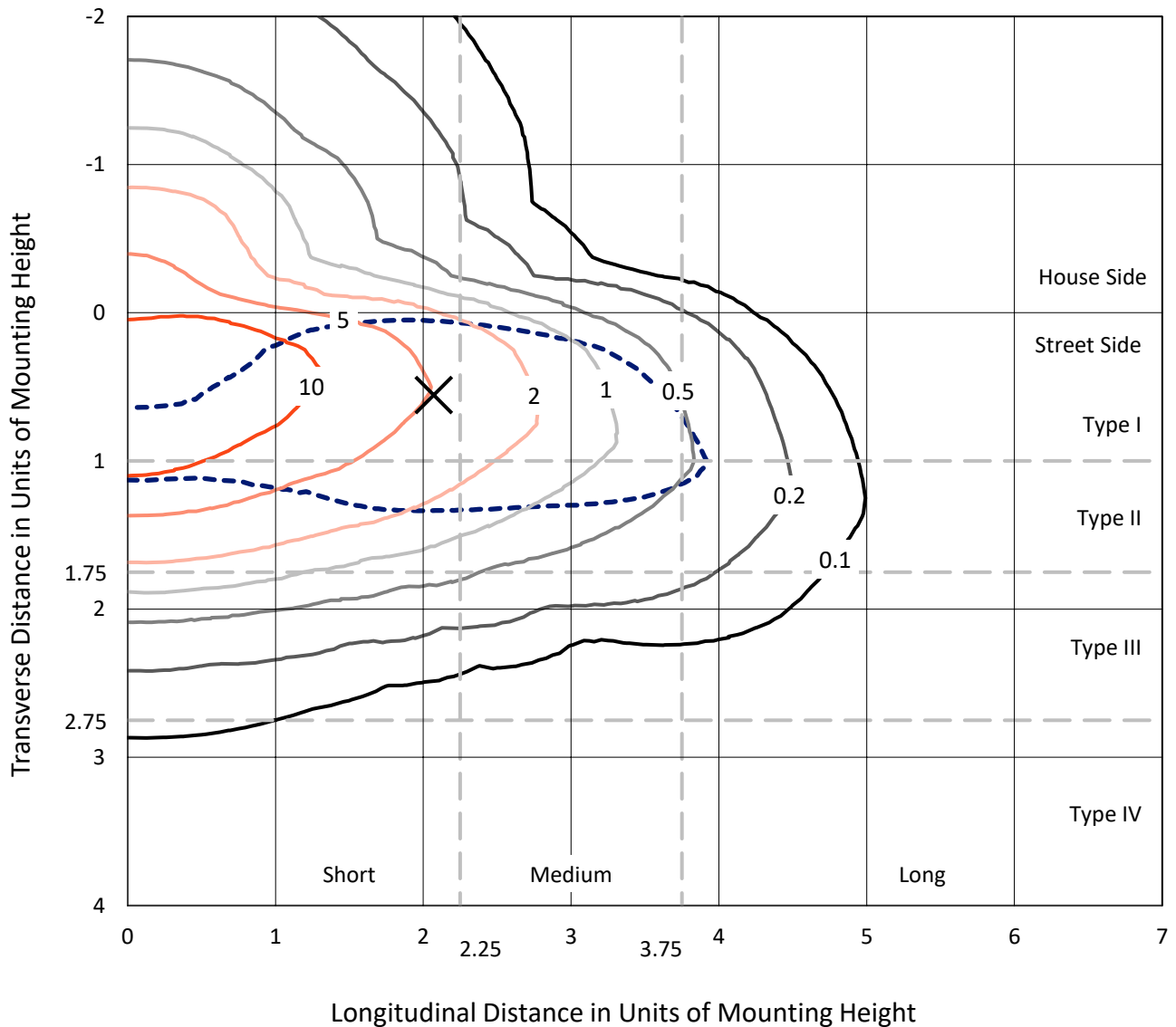
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

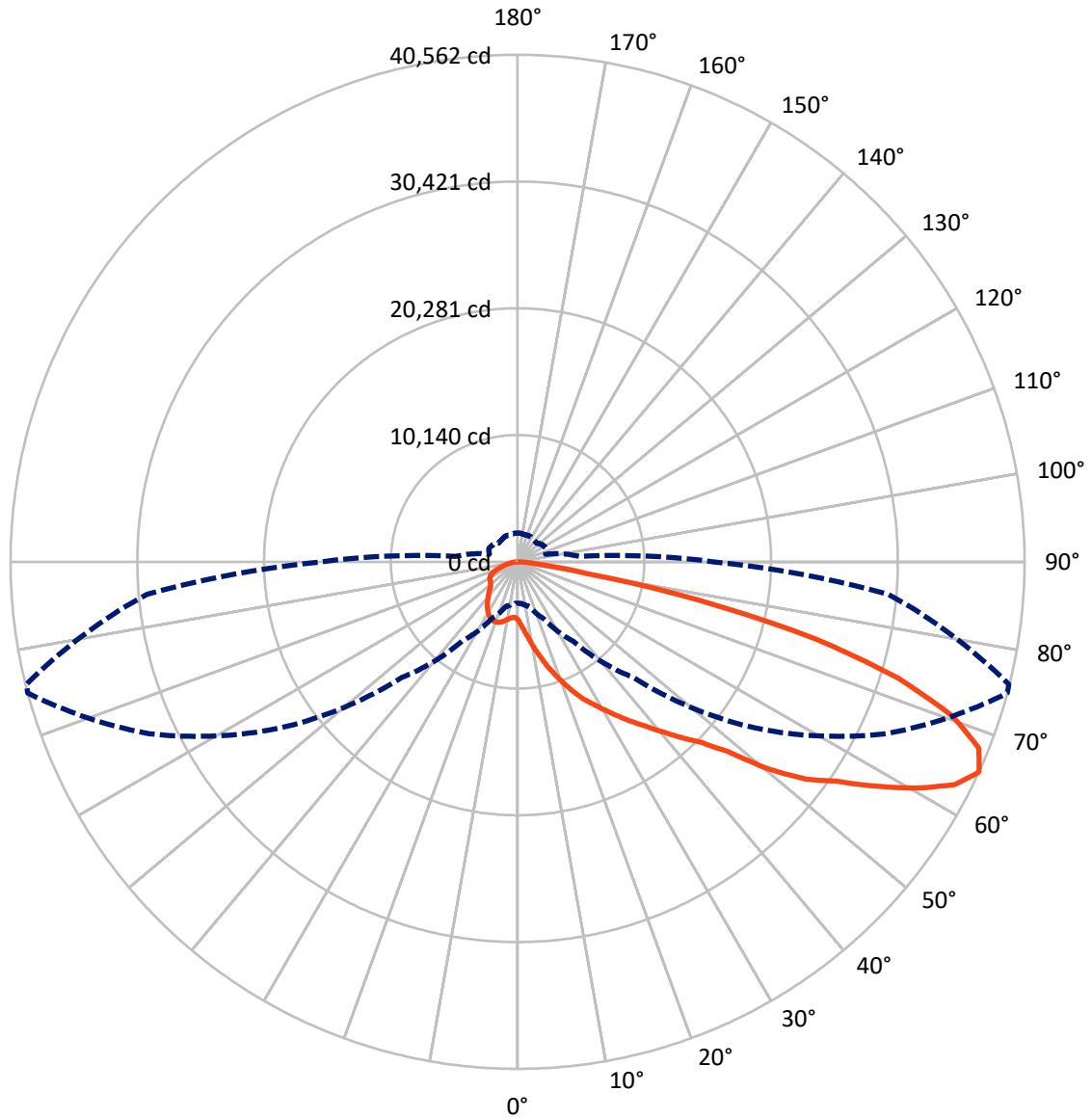
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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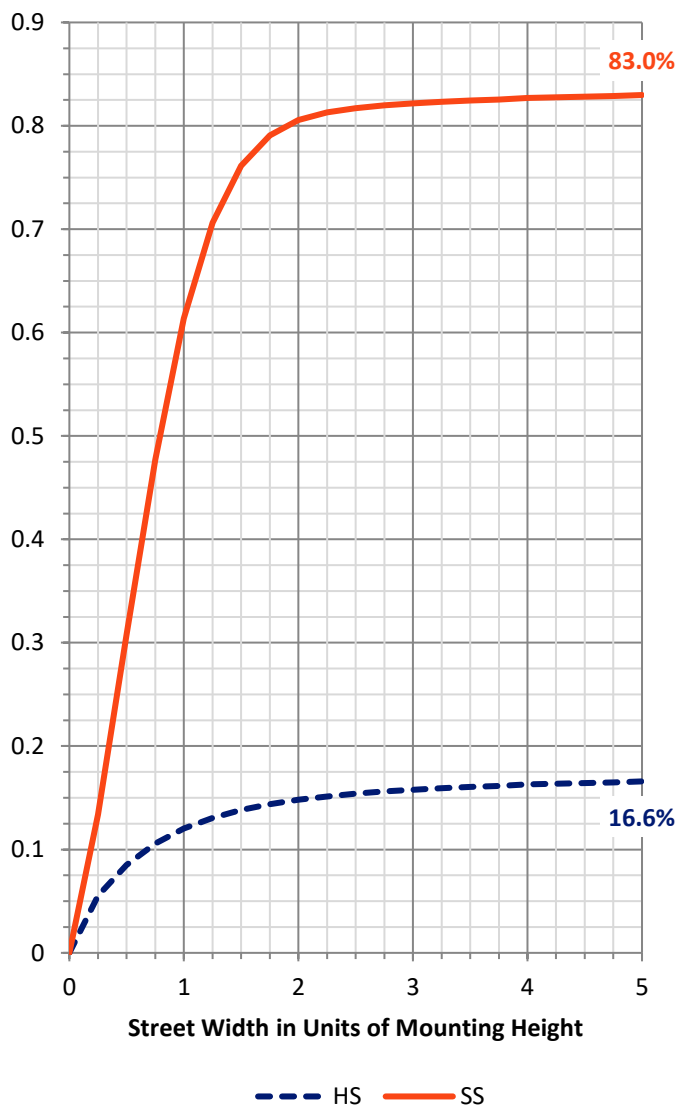
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8380.1	0.0	8380.1
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	41468.0	0.0	41468.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	49848.1	0.0	49848.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.7	1.1
10°-20°	2204.1	4.4
20°-30°	4257.5	8.5
30°-40°	6915.5	13.9
40°-50°	9512.9	19.1
50°-60°	11231.5	22.5
60°-70°	9840.7	19.7
70°-80°	4698.0	9.4
80°-90°	625.1	1.3
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°	49848.1	100.0
0°-180°	49848.1	100.0

**Coefficient of Utilization**

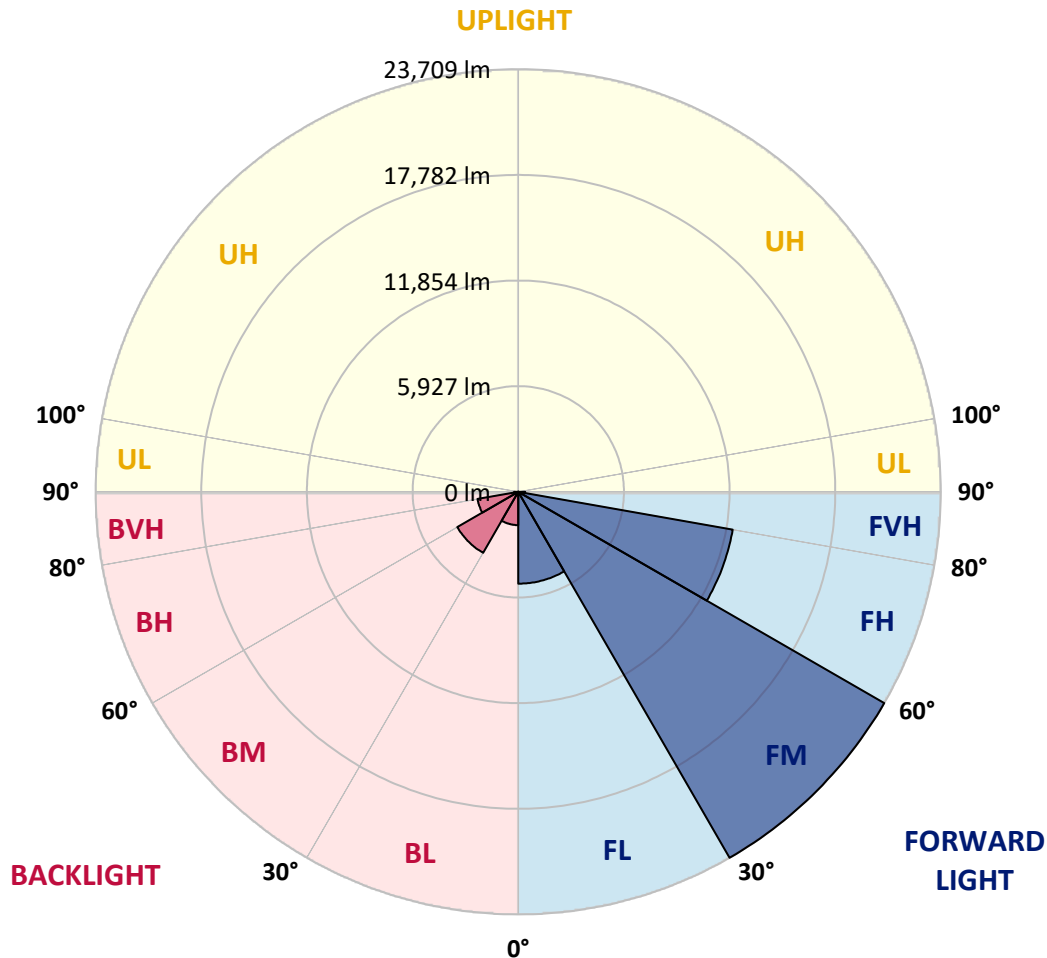


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5153.5	10.3			
FM (30°-60°)	23708.8	47.6			
FH (60°-80°)	12215.0	24.5			G5
FVH (80°-90°)	390.7	0.8			G3/500
BL (0°-30°)	1870.8	3.8	B3/2500		
BM (30°-60°)	3951.2	7.9	B3/5000		
BH (60°-80°)	2323.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	234.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5
2.5°	6153.8	6113.2	6069.9	5951.0	5823.9	5680.6	5475.1	5277.7	5015.4	5007.4	4812.7
5°	7859.8	7832.7	7640.8	7530.0	7235.2	6843.2	6510.6	5994.2	5515.6	5458.8	5080.3
7.5°	9427.9	9322.6	9249.5	9049.4	8757.5	8254.5	7611.1	6913.5	6113.2	6037.5	5410.2
10°	10609.5	10598.7	10560.9	10387.8	10168.8	9668.6	8954.8	7954.4	6870.2	6721.5	5810.3
12.5°	11493.7	11501.7	11496.3	11493.7	11336.8	10912.4	10139.1	9084.6	7635.3	7530.0	6272.7
15°	12075.0	12156.1	12188.5	12323.7	12337.2	12053.3	11388.2	10176.9	8497.9	8341.1	6770.2
17.5°	12458.9	12499.4	12650.9	12880.7	13067.3	13015.8	12423.7	11188.1	9379.3	9117.0	7286.6
20°	12826.6	12896.9	13013.1	13326.7	13656.6	13808.0	13391.6	12223.6	10252.6	10085.0	7857.1
22.5°	13591.7	13691.8	13732.3	13891.8	14173.1	14440.7	14251.5	13215.9	11209.7	10982.6	8462.7
25°	14886.9	14992.3	14878.7	14840.9	14932.8	15065.3	15024.8	14151.4	12112.8	11788.4	9035.9
27.5°	16574.0	16587.5	16365.8	16154.9	15927.8	15860.2	15735.8	14981.5	12896.9	12626.5	9611.8
30°	18385.5	18320.6	17952.9	17571.7	17187.7	16809.2	16452.3	15781.8	13770.2	13459.2	10176.9
32.5°	20067.2	20032.0	19623.8	19031.7	18382.8	18025.9	17304.0	16590.2	14705.7	14405.6	10758.2
35°	21327.2	21378.6	20929.7	20283.5	19575.2	19258.8	18347.6	17439.2	15673.6	15346.5	11390.9
37.5°	22222.1	22195.1	21797.6	21237.9	20616.1	20340.3	19567.0	18366.6	16714.5	16401.0	12083.0
40°	22541.2	22525.0	22230.2	21822.0	21427.2	21329.9	20843.2	19367.0	17906.9	17539.2	12915.8
42.5°	22338.4	22373.5	22178.9	22068.0	21995.0	22065.3	22111.2	20678.2	19207.5	18869.4	13818.9
45°	21716.5	21697.6	21670.5	21851.7	22262.6	22725.0	23365.8	21916.6	20621.5	20351.1	15030.2
47.5°	20605.3	20740.4	20808.1	21308.2	22205.9	23300.9	24809.6	23576.7	22673.6	22438.4	16876.8
50°	19050.6	19158.8	19558.9	20448.4	21786.8	23517.2	26220.9	26291.3	26096.6	25655.9	18883.0
52.5°	16622.6	16790.3	17614.9	19245.3	20927.0	23428.0	27075.4	28619.2	28876.0	28546.1	20859.4
55°	13905.4	14140.6	15011.2	17149.9	19742.8	22941.3	27664.7	29968.3	30993.1	30687.6	22762.8
57.5°	11244.9	11493.7	12388.5	14459.7	17677.1	21865.2	28051.4	31471.7	33875.2	33477.8	25131.3
60°	8427.6	8687.2	9455.0	11588.2	14735.4	19761.7	27789.1	32774.8	36754.7	36584.4	27502.6
62.5°	5437.2	5723.8	6391.6	8157.2	11326.0	16887.6	26385.8	33494.0	39247.6	39042.1	29232.9
65°	3312.1	3344.5	3712.3	5064.1	7751.6	13075.3	23176.6	32539.6	40561.6	40499.4	29760.2
67.5°	2141.3	2192.7	2360.4	3033.6	4647.7	9081.9	18531.5	29389.7	39793.8	39772.2	28670.6
70°	1808.8	1825.0	1900.7	2046.8	2701.0	5507.5	13013.1	24368.9	36876.4	36876.4	26050.6
72.5°	1616.8	1638.5	1665.5	1711.5	1927.7	3120.1	7765.2	18969.5	31839.4	32050.2	22173.5
75°	1468.1	1462.7	1478.9	1487.1	1643.9	2038.6	4015.1	14029.7	24631.1	24209.3	16057.5
77.5°	1257.3	1265.3	1257.3	1292.4	1451.9	1552.0	2038.6	9414.5	14927.4	14381.2	8059.9
80°	1032.9	1046.3	1059.9	1081.5	1241.1	1178.8	1224.8	4290.8	5521.1	5404.8	2490.2
82.5°	776.0	794.9	816.5	867.9	976.1	778.7	773.3	1833.2	1992.7	1825.0	916.6
85°	313.7	370.4	559.7	611.1	613.7	427.2	475.8	765.1	813.9	794.9	359.6
87.5°	73.0	86.5	181.2	273.1	251.4	159.5	175.7	248.8	283.9	262.2	121.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5	4631.5
2.5°	4723.4	4628.8	4466.6	4342.2	4253.0	4174.6	4125.9	4096.2	4085.4	4082.6	4085.4
5°	4882.9	4715.3	4458.5	4296.2	4207.1	4155.7	4125.9	4123.2	4125.9	4128.6	4120.5
7.5°	5101.9	4861.3	4526.1	4374.7	4307.0	4269.2	4255.7	4250.3	4253.0	4250.3	4250.3
10°	5394.0	5064.1	4658.5	4501.7	4444.9	4401.7	4380.1	4366.6	4355.8	4344.9	4339.5
12.5°	5715.7	5288.5	4801.8	4650.5	4569.4	4501.7	4453.1	4417.9	4393.6	4369.2	4363.8
15°	6075.3	5526.5	4961.4	4750.5	4634.2	4534.2	4450.3	4393.6	4350.3	4315.2	4312.5
17.5°	6418.7	5750.9	5069.5	4796.4	4626.1	4485.5	4374.7	4296.2	4242.2	4196.3	4190.8
20°	6786.4	5964.5	5118.2	4766.7	4545.0	4374.7	4228.7	4134.0	4071.8	4020.5	4012.3
22.5°	7156.9	6145.6	5112.8	4672.1	4404.4	4204.3	4050.2	3950.2	3877.2	3825.8	3806.9
25°	7511.0	6291.6	5045.2	4520.7	4209.7	4001.5	3844.8	3752.8	3687.9	3625.8	3625.8
27.5°	7830.1	6378.2	4918.1	4336.8	4009.7	3790.7	3666.3	3582.5	3523.0	3482.4	3458.1
30°	8143.7	6418.7	4745.1	4104.3	3798.8	3612.2	3512.1	3463.5	3409.4	3363.5	3358.1
32.5°	8424.8	6410.6	4528.8	3877.2	3598.7	3466.2	3425.6	3387.8	3331.0	3266.1	3249.9
35°	8698.0	6356.6	4271.9	3628.4	3431.0	3379.7	3390.5	3336.4	3233.7	3152.6	3139.0
37.5°	8995.3	6259.1	3990.7	3425.6	3290.5	3339.1	3366.2	3247.2	3079.5	2952.5	2922.8
40°	9338.8	6148.4	3698.7	3222.9	3179.6	3301.3	3301.3	3082.3	2852.5	2774.0	2752.4
42.5°	9741.6	6056.4	3455.4	3052.5	3087.7	3209.4	3195.8	2863.3	2768.6	2728.1	2717.2
45°	10379.7	6023.9	3204.0	2903.8	3012.0	3101.2	2990.4	2787.6	2733.5	2701.0	2690.2
47.5°	11388.2	6061.8	2982.2	2793.0	2925.4	2993.0	2760.5	2736.2	2698.4	2652.4	2646.9
50°	12323.7	6026.7	2825.5	2730.8	2849.7	2863.3	2665.9	2674.0	2652.4	2601.0	2590.2
52.5°	13088.9	5915.8	2725.4	2698.4	2784.9	2636.1	2576.7	2606.5	2598.3	2533.4	2522.6
55°	13929.7	5848.2	2676.7	2698.4	2741.6	2438.8	2492.8	2536.1	2525.3	2479.4	2476.6
57.5°	14949.0	5861.7	2641.5	2706.4	2698.4	2338.7	2409.1	2460.4	2457.7	2444.2	2444.2
60°	15992.7	5867.1	2587.5	2703.8	2646.9	2260.4	2322.5	2395.5	2400.9	2409.1	2409.1
62.5°	16338.8	5631.9	2482.0	2655.1	2533.4	2184.6	2241.4	2341.5	2336.0	2357.7	2360.4
65°	15692.6	4980.3	2325.2	2544.2	2387.4	2130.5	2179.2	2271.2	2241.4	2298.2	2309.0
67.5°	14283.9	4120.5	2081.9	2344.1	2225.2	2073.8	2138.7	2173.8	2119.7	2230.6	2233.3
70°	12345.3	3217.4	1773.7	2060.2	2041.4	2014.3	2106.2	2052.2	1976.4	2111.6	2084.6
72.5°	10322.9	2457.7	1416.8	1684.5	1795.3	1925.1	2049.4	1895.3	1789.9	1830.4	1781.8
75°	7754.4	1817.0	1138.2	1319.4	1495.1	1798.0	1998.1	1706.1	1543.8	1506.0	1495.1
77.5°	3952.9	1186.9	851.7	986.9	1122.0	1625.0	1927.7	1484.3	1278.9	1219.4	1192.4
80°	1411.4	738.1	600.2	681.4	757.1	1397.8	1684.5	1227.5	992.3	981.5	992.3
82.5°	654.3	475.8	402.9	446.2	448.8	932.8	1284.3	916.6	754.3	1146.4	967.9
85°	281.2	238.0	227.1	221.7	205.5	416.4	721.9	492.1	767.9	343.3	316.3
87.5°	83.8	94.7	83.8	62.2	46.0	46.0	73.0	27.0	18.9	13.5	13.5
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)