

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: P651474

Luminaire Tested: **GALN-SA6D-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651474  
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-SA6D-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 39317.6 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

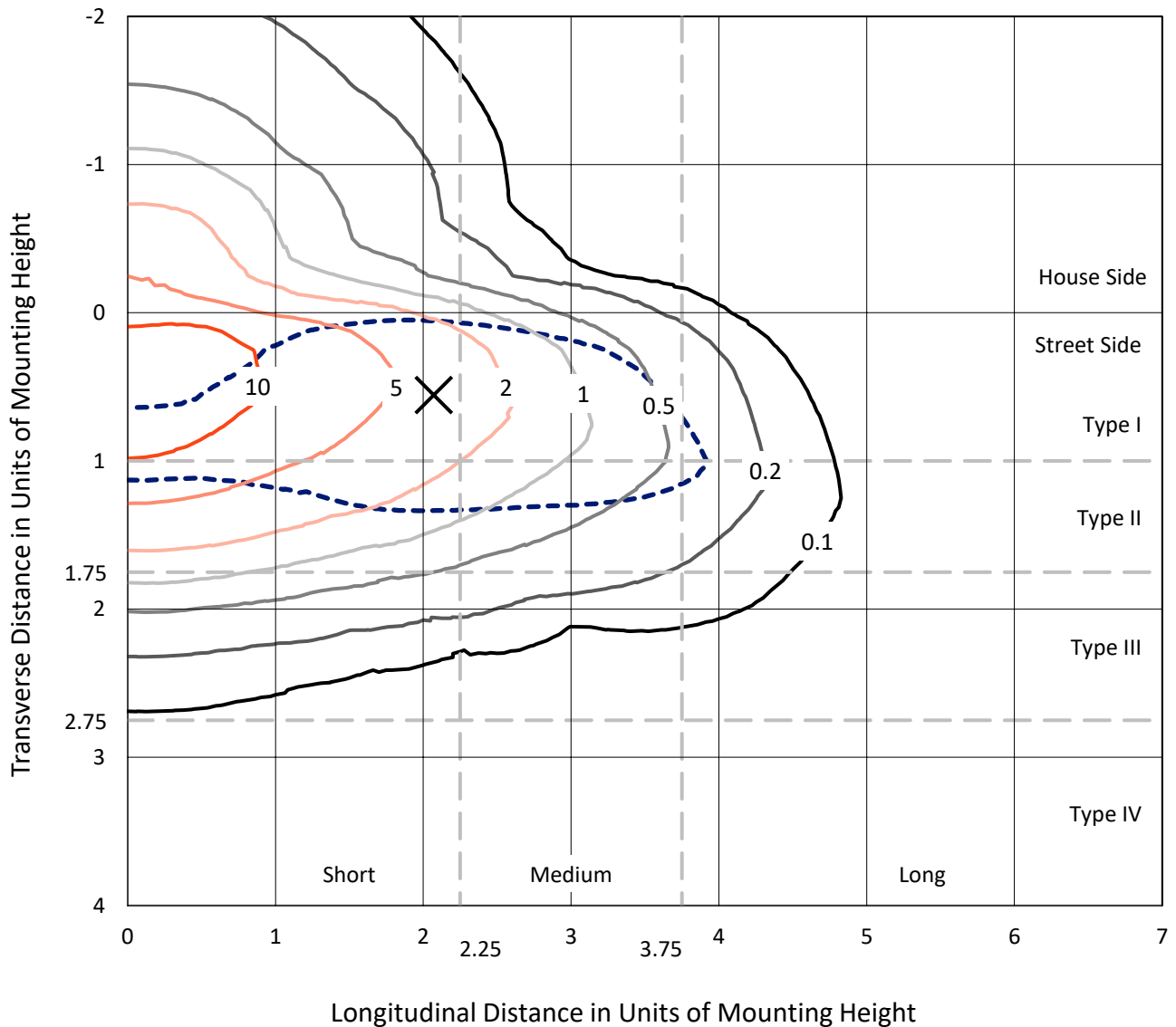
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

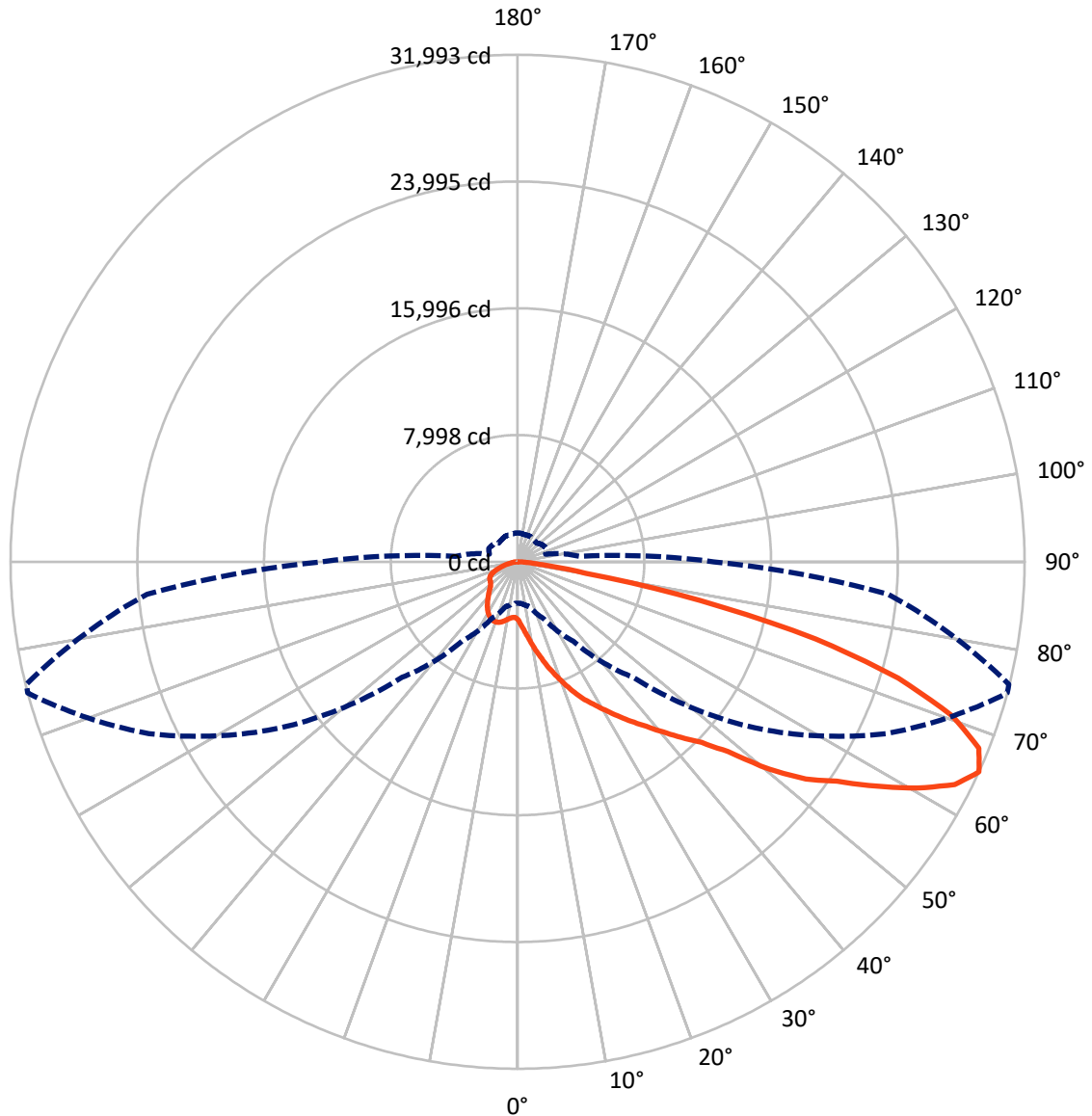
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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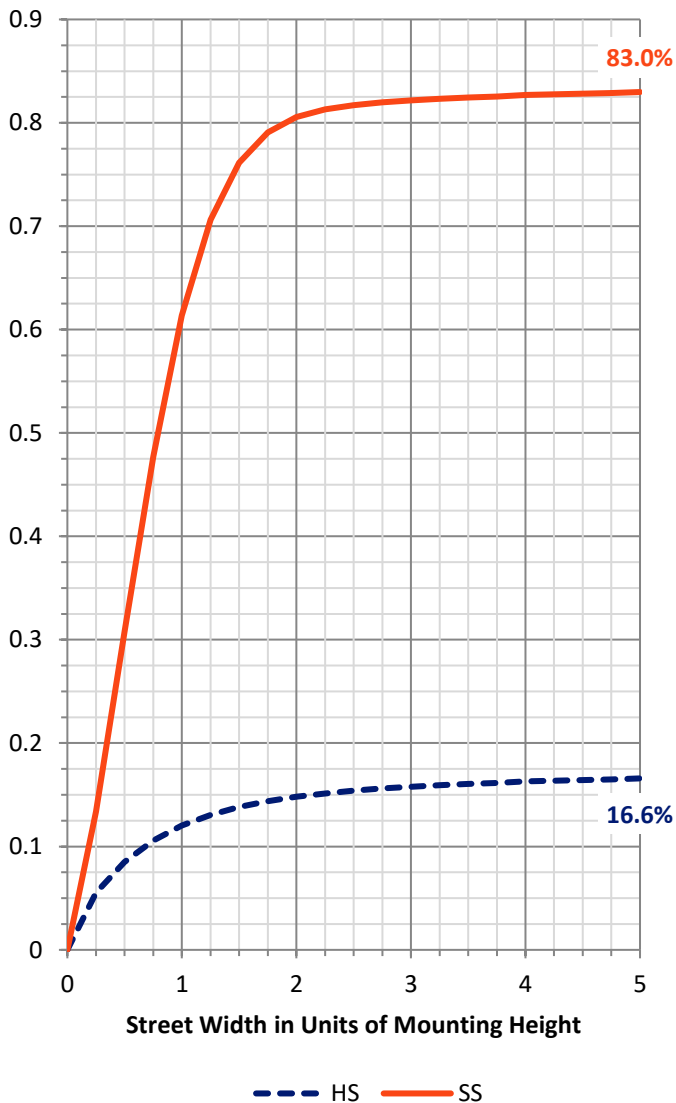
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6609.8	0.0	6609.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	32707.8	0.0	32707.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	39317.6	0.0	39317.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.8	1.1
10°-20°	1738.5	4.4
20°-30°	3358.1	8.5
30°-40°	5454.6	13.9
40°-50°	7503.3	19.1
50°-60°	8858.8	22.5
60°-70°	7761.8	19.7
70°-80°	3705.5	9.4
80°-90°	493.1	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°	39317.6	100.0
0°-180°	39317.6	100.0

**Coefficient of Utilization**

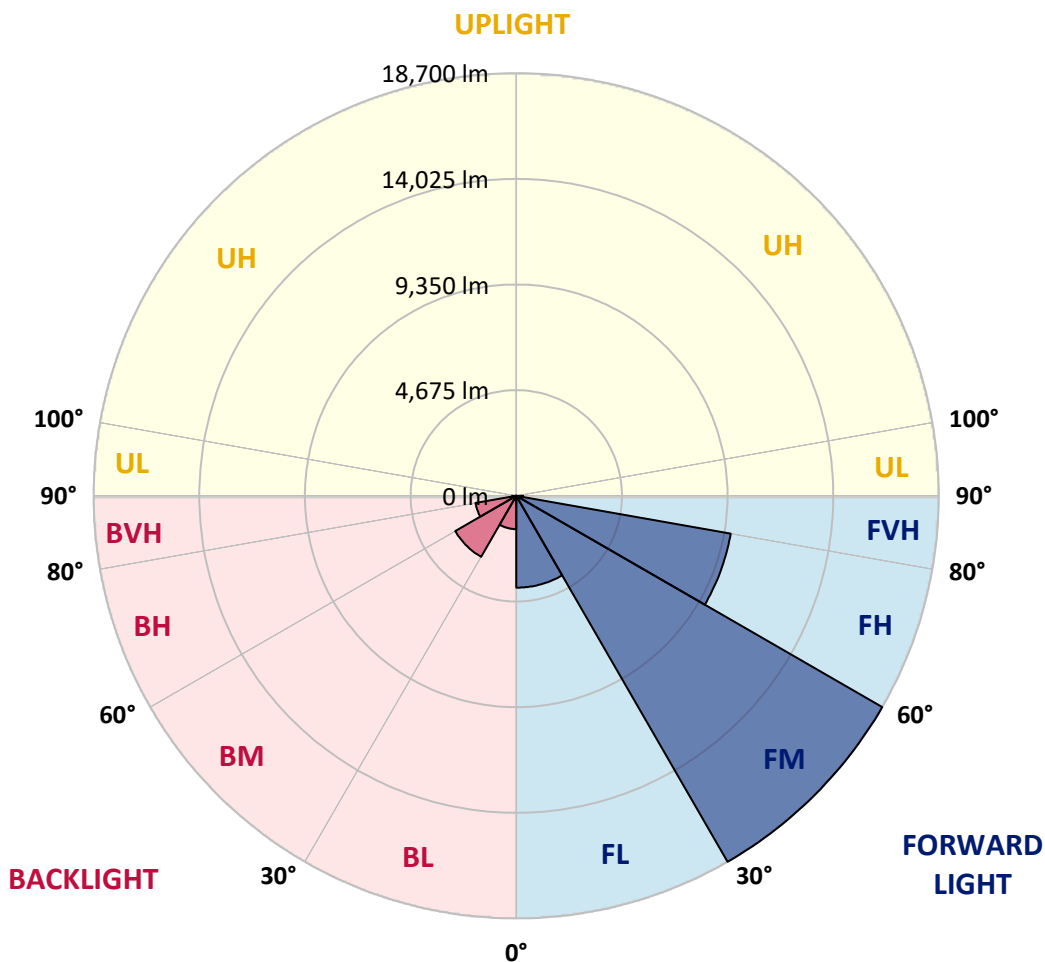


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4064.8	10.3			
FM (30°-60°)	18700.3	47.6			
FH (60°-80°)	9634.6	24.5			G4/12000
FVH (80°-90°)	308.1	0.8			G3/500
BL (0°-30°)	1475.6	3.8	B3/2500		
BM (30°-60°)	3116.5	7.9	B3/5000		
BH (60°-80°)	1832.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	184.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1
2.5°	4853.7	4821.8	4787.6	4693.8	4593.5	4480.5	4318.5	4162.8	3955.9	3949.5	3796.0
5°	6199.4	6178.1	6026.7	5939.2	5706.8	5397.5	5135.2	4727.9	4350.5	4305.7	4007.1
7.5°	7436.3	7353.1	7295.5	7137.7	6907.4	6510.8	6003.2	5453.0	4821.8	4762.1	4267.3
10°	8368.2	8359.7	8329.9	8193.4	8020.6	7626.1	7063.1	6274.0	5418.9	5301.6	4582.9
12.5°	9065.6	9072.0	9067.7	9065.6	8941.8	8607.0	7997.2	7165.5	6022.4	5939.2	4947.6
15°	9524.1	9588.1	9613.6	9720.3	9731.0	9507.0	8982.4	8027.0	6702.7	6579.0	5339.9
17.5°	9826.9	9858.9	9978.3	10159.6	10306.7	10266.3	9799.2	8824.6	7397.9	7191.1	5747.3
20°	10116.9	10172.4	10264.1	10511.5	10771.6	10891.0	10562.6	9641.4	8086.7	7954.5	6197.2
22.5°	10720.5	10799.4	10831.3	10957.1	11179.0	11390.1	11240.8	10424.0	8841.7	8662.6	6674.9
25°	11742.0	11825.1	11735.6	11705.7	11778.2	11882.7	11850.7	11161.9	9553.9	9298.0	7127.1
27.5°	13072.7	13083.4	12908.5	12742.2	12563.0	12509.7	12411.6	11816.6	10172.4	9959.1	7581.3
30°	14501.5	14450.3	14160.3	13859.6	13556.8	13258.2	12976.7	12447.8	10861.2	10615.9	8027.0
32.5°	15828.0	15800.3	15478.3	15011.2	14499.3	14217.9	13648.5	13085.5	11599.1	11362.3	8485.5
35°	16821.8	16862.3	16508.2	15998.6	15439.8	15190.3	14471.7	13755.1	12362.5	12104.5	8984.6
37.5°	17527.6	17506.3	17192.8	16751.4	16260.9	16043.3	15433.4	14486.6	13183.6	12936.2	9530.5
40°	17779.2	17766.5	17534.0	17212.0	16900.7	16823.9	16440.0	15275.7	14124.0	13834.0	10187.3
42.5°	17619.4	17647.0	17493.5	17406.1	17348.5	17403.9	17440.2	16309.9	15149.8	14883.3	10899.6
45°	17128.8	17113.9	17092.6	17235.5	17559.7	17924.3	18429.7	17286.7	16265.1	16051.9	11855.0
47.5°	16252.3	16359.0	16412.3	16806.8	17514.8	18378.5	19568.5	18596.0	17883.8	17698.3	13311.5
50°	15026.1	15111.4	15427.1	16128.7	17184.3	18549.1	20681.7	20737.1	20583.6	20236.0	14893.9
52.5°	13111.1	13243.3	13893.7	15179.6	16506.1	18478.8	21355.6	22573.3	22775.9	22515.8	16452.8
55°	10967.8	11153.3	11840.0	13526.9	15572.0	18094.9	21820.5	23637.5	24445.7	24204.7	17954.2
57.5°	8869.4	9065.6	9771.5	11405.0	13942.8	17246.1	22125.4	24823.2	26719.0	26405.5	19822.3
60°	6647.3	6852.0	7457.7	9140.2	11622.5	15587.0	21918.6	25851.1	28990.2	28855.9	21692.6
62.5°	4288.6	4514.7	5041.4	6434.0	8933.4	13320.1	20811.8	26418.3	30956.5	30794.4	23057.4
65°	2612.4	2638.0	2928.0	3994.3	6114.1	10313.1	18280.4	25665.6	31992.9	31943.9	23473.2
67.5°	1689.0	1729.5	1861.7	2392.7	3665.9	7163.3	14616.7	23181.1	31387.2	31370.1	22613.8
70°	1426.7	1439.5	1499.2	1614.4	2130.4	4344.0	10264.1	19220.9	29086.2	29086.2	20547.4
72.5°	1275.3	1292.4	1313.6	1349.9	1520.5	2461.0	6124.8	14962.1	25113.2	25279.5	17489.3
75°	1158.0	1153.7	1166.6	1172.9	1296.6	1608.0	3166.9	11066.0	19427.8	19095.1	12665.4
77.5°	991.6	998.0	991.6	1019.4	1145.2	1224.1	1608.0	7425.6	11773.9	11343.2	6357.2
80°	814.7	825.3	836.0	853.0	978.8	929.8	966.1	3384.4	4354.7	4263.0	1964.1
82.5°	612.1	627.0	644.0	684.6	769.9	614.2	609.9	1445.8	1571.7	1439.5	722.9
85°	247.3	292.2	441.4	482.0	484.1	337.0	375.3	603.5	641.9	627.0	283.7
87.5°	57.6	68.2	142.9	215.4	198.3	125.8	138.6	196.2	224.0	206.9	96.0
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°	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1
2.5°	3725.6	3650.9	3523.0	3424.9	3354.6	3292.7	3254.3	3230.9	3222.3	3220.2	3222.3
5°	3851.4	3719.2	3516.6	3388.6	3318.2	3277.8	3254.3	3252.1	3254.3	3256.4	3250.0
7.5°	4024.2	3834.4	3570.0	3450.5	3397.2	3367.4	3356.7	3352.4	3354.6	3352.4	3352.4
10°	4254.5	3994.3	3674.4	3550.7	3506.0	3471.8	3454.7	3444.1	3435.6	3427.1	3422.8
12.5°	4508.3	4171.3	3787.4	3668.0	3604.0	3550.7	3512.4	3484.6	3465.4	3446.2	3442.0
15°	4791.9	4359.0	3913.3	3746.9	3655.2	3576.4	3510.2	3465.4	3431.3	3403.6	3401.4
17.5°	5062.7	4536.0	3998.6	3783.2	3648.8	3537.9	3450.5	3388.6	3346.0	3309.8	3305.5
20°	5352.8	4704.5	4037.0	3759.7	3584.8	3450.5	3335.3	3260.7	3211.7	3171.2	3164.8
22.5°	5645.0	4847.4	4032.7	3685.1	3474.0	3316.1	3194.6	3115.7	3058.1	3017.6	3002.7
25°	5924.3	4962.5	3979.4	3565.7	3320.4	3156.2	3032.6	2960.0	2908.9	2859.8	2859.8
27.5°	6176.0	5030.8	3879.1	3420.7	3162.6	2989.8	2891.8	2825.7	2778.7	2746.8	2727.5
30°	6423.3	5062.7	3742.7	3237.3	2996.2	2849.1	2770.3	2731.8	2689.2	2652.9	2648.6
32.5°	6645.1	5056.3	3572.1	3058.1	2838.5	2733.9	2702.0	2672.1	2627.4	2576.2	2563.4
35°	6860.5	5013.7	3369.5	2861.9	2706.3	2665.7	2674.2	2631.6	2550.6	2486.6	2475.9
37.5°	7095.1	4936.9	3147.7	2702.0	2595.3	2633.8	2655.0	2561.2	2429.0	2328.8	2305.3
40°	7365.9	4849.5	2917.3	2542.0	2507.9	2603.9	2603.9	2431.2	2249.8	2188.0	2171.0
42.5°	7683.6	4777.0	2725.4	2407.7	2435.4	2531.3	2520.7	2258.4	2183.7	2151.8	2143.2
45°	8187.0	4751.4	2527.1	2290.4	2375.7	2446.0	2358.7	2198.7	2156.1	2130.4	2121.9
47.5°	8982.4	4781.3	2352.2	2202.9	2307.5	2360.8	2177.3	2158.2	2128.3	2092.1	2087.8
50°	9720.3	4753.5	2228.6	2153.9	2247.7	2258.4	2102.8	2109.1	2092.1	2051.5	2043.0
52.5°	10323.8	4666.0	2149.6	2128.3	2196.5	2079.3	2032.4	2055.8	2049.4	1998.2	1989.7
55°	10987.0	4612.8	2111.2	2128.3	2162.5	1923.6	1966.3	2000.3	1991.8	1955.6	1953.5
57.5°	11791.0	4623.4	2083.5	2134.7	2128.3	1844.6	1900.2	1940.6	1938.5	1927.8	1927.8
60°	12614.2	4627.7	2040.9	2132.6	2087.8	1782.8	1831.9	1889.5	1893.8	1900.2	1900.2
62.5°	12887.1	4442.2	1957.7	2094.2	1998.2	1723.1	1767.9	1846.8	1842.5	1859.6	1861.7
65°	12377.5	3928.2	1834.1	2006.8	1883.1	1680.5	1718.8	1791.3	1767.9	1812.7	1821.2
67.5°	11266.4	3250.0	1642.1	1848.9	1755.1	1635.7	1686.9	1714.6	1671.9	1759.4	1761.5
70°	9737.4	2537.8	1399.0	1625.0	1610.1	1588.7	1661.3	1618.6	1558.9	1665.5	1644.2
72.5°	8142.1	1938.5	1117.4	1328.6	1416.0	1518.4	1616.5	1495.0	1411.8	1443.7	1405.4
75°	6116.3	1433.1	897.9	1040.7	1179.3	1418.2	1575.9	1345.7	1217.7	1187.8	1179.3
77.5°	3117.8	936.2	671.8	778.4	885.0	1281.7	1520.5	1170.8	1008.7	961.8	940.5
80°	1113.2	582.2	473.4	537.4	597.1	1102.6	1328.6	968.2	782.6	774.1	782.6
82.5°	516.1	375.3	317.7	351.9	354.0	735.7	1013.0	722.9	595.0	904.2	763.5
85°	221.8	187.6	179.1	174.8	162.1	328.4	569.4	388.1	605.7	270.8	249.5
87.5°	66.1	74.7	66.1	49.0	36.2	36.2	57.6	21.4	15.0	10.7	10.7
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)