

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: P650950

Luminaire Tested: **GALN-SA6C-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
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-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35404.4 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

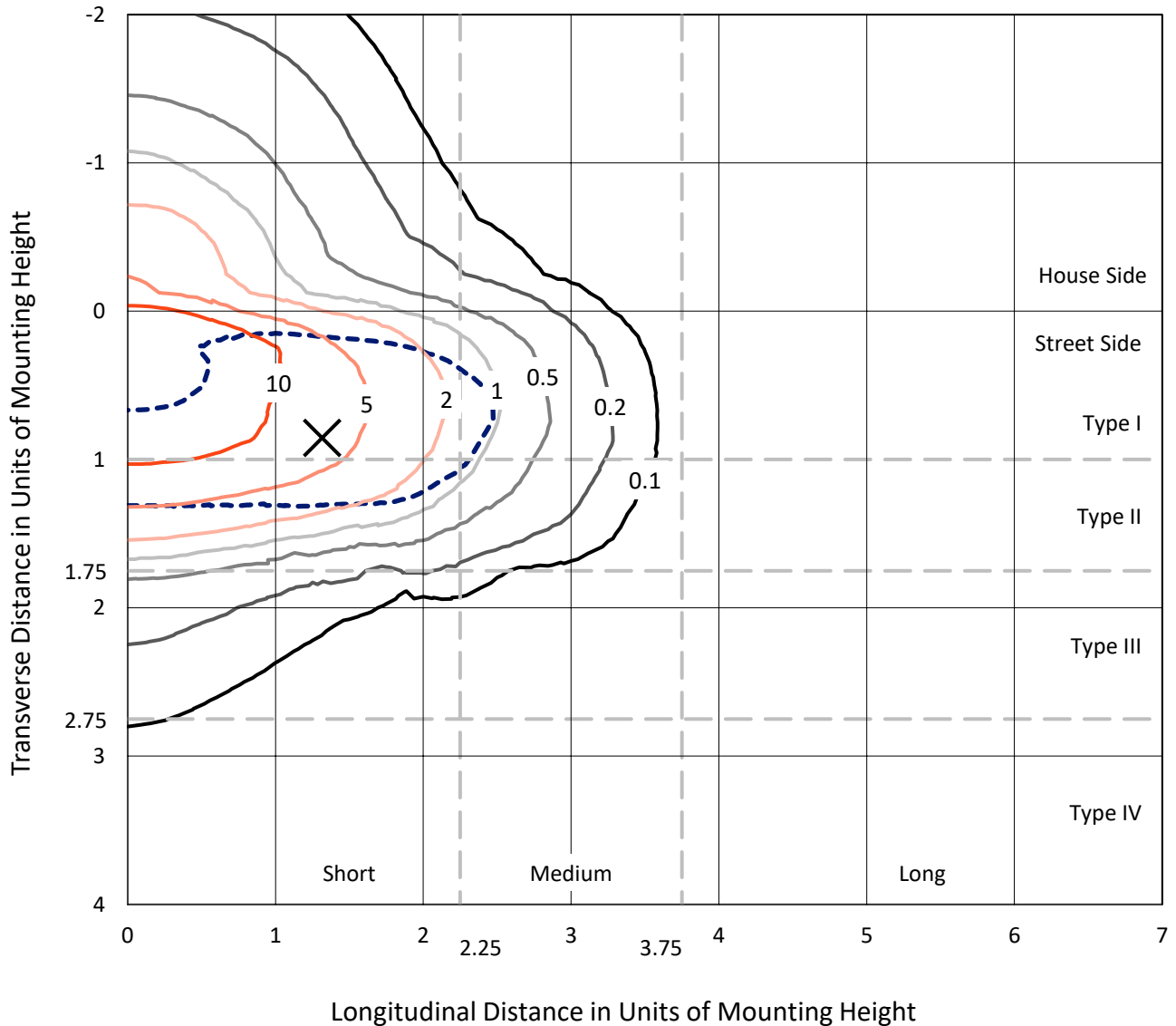
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

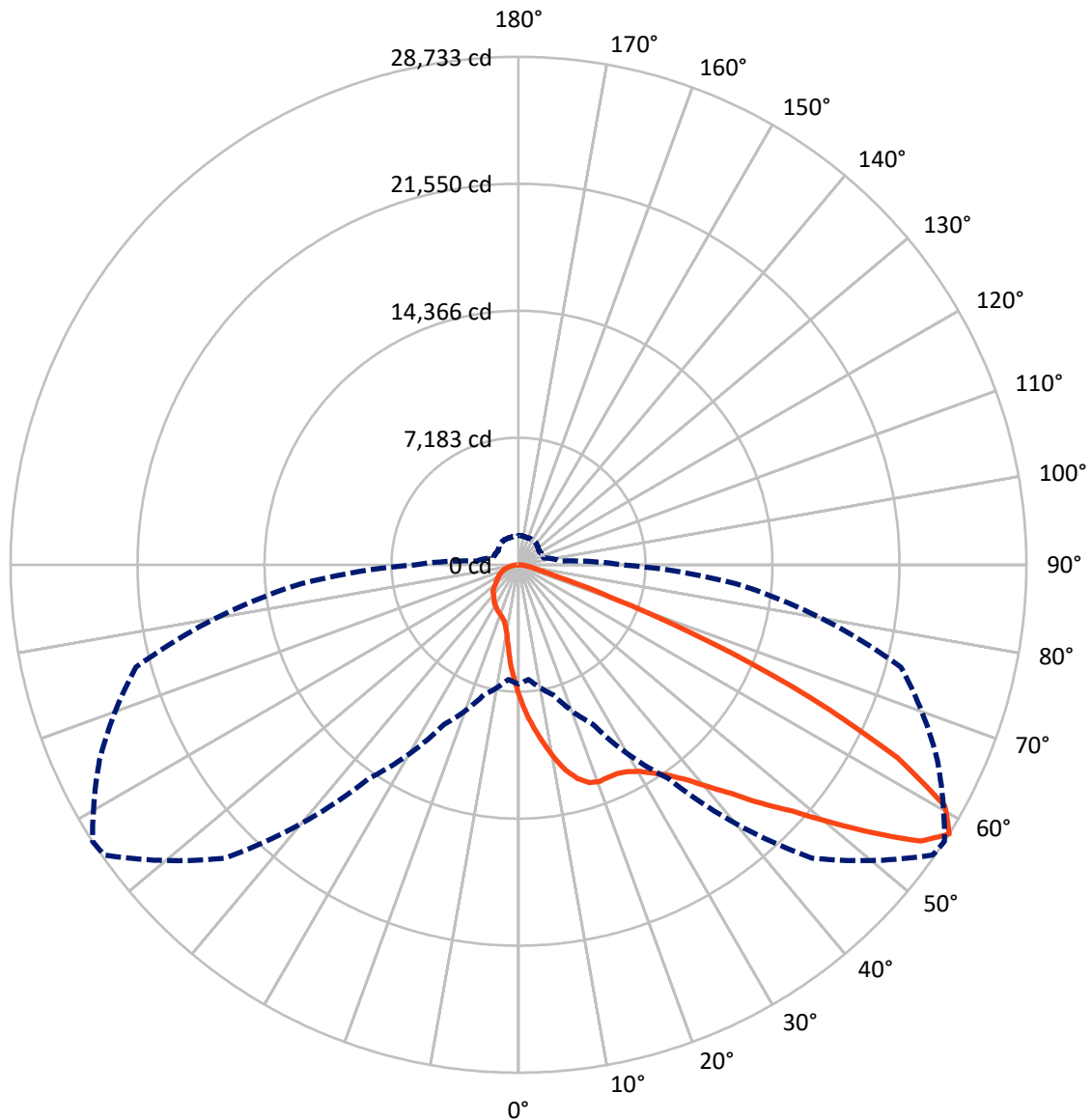
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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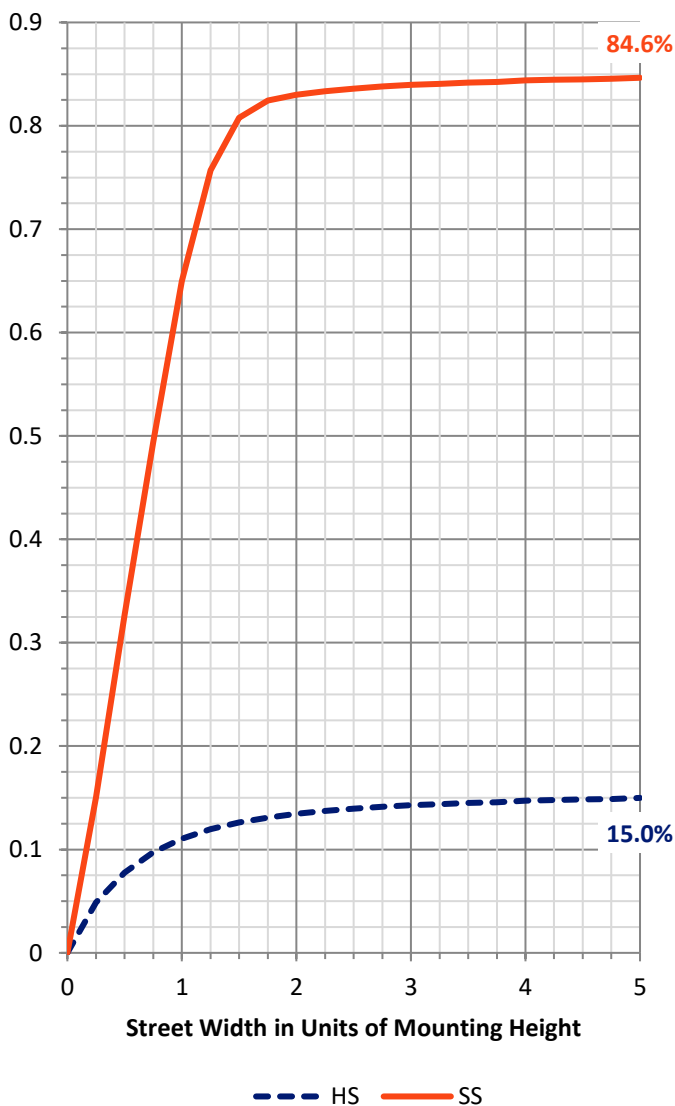
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5384.0	0.0	5384.0
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	30020.4	0.0	30020.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	35404.4	0.0	35404.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.9	2.0
10°-20°	2106.8	6.0
20°-30°	3498.3	9.9
30°-40°	5269.5	14.9
40°-50°	7911.6	22.3
50°-60°	8868.0	25.0
60°-70°	5190.0	14.7
70°-80°	1535.2	4.3
80°-90°	310.3	0.9
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°	35404.4	100.0
0°-180°	35404.4	100.0

**Coefficient of Utilization**

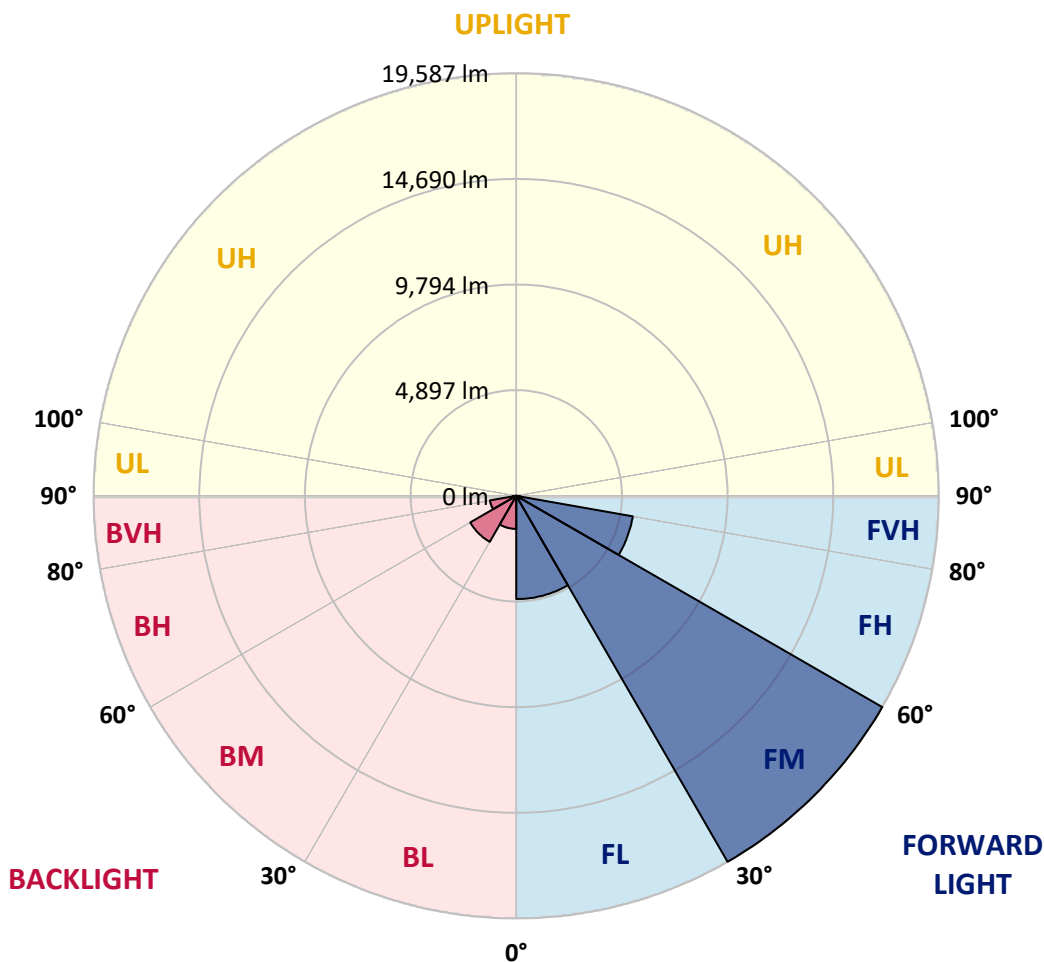


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4785.9	13.5			
FM (30°-60°)	19587.3	55.3			
FH (60°-80°)	5486.3	15.5			G3/7500
FVH (80°-90°)	161.0	0.5			G2/225
BL (0°-30°)	1534.1	4.3	B3/2500		
BM (30°-60°)	2461.8	7.0	B2/2500		
BH (60°-80°)	1238.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	149.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1
2.5°	9242.3	9141.6	9062.1	8992.3	8901.2	8655.2	8409.0	8405.1	8209.4	7907.1	7597.0
5°	10748.1	10612.5	10630.0	10412.9	10195.9	9839.3	9317.9	9290.8	8874.1	8308.2	7732.7
7.5°	11728.8	11730.8	11676.4	11552.5	11317.9	10912.9	10321.8	10188.1	9608.6	8750.1	7887.7
10°	11678.4	11730.8	11821.9	11928.4	12000.1	11800.5	11261.7	11098.9	10345.1	9285.0	8060.1
12.5°	11007.8	11089.3	11219.1	11486.5	11918.7	12248.2	12064.1	11932.3	11197.8	9817.9	8250.1
15°	10589.3	10637.7	10709.4	10889.7	11354.8	12143.5	12620.3	12550.5	12002.1	10420.7	8463.2
17.5°	10461.4	10509.8	10533.0	10643.5	10974.9	11783.1	12839.3	12963.3	12715.2	10974.9	8678.4
20°	10589.3	10612.5	10612.5	10678.4	10938.1	11571.8	12829.6	13079.6	13300.5	11639.7	8880.0
22.5°	10924.5	10934.3	10920.6	10943.9	11137.7	11629.9	12738.5	13048.6	13773.4	12203.6	9036.9
25°	11469.1	11484.6	11395.5	11341.2	11482.7	11885.8	12788.9	13073.8	14143.6	12742.4	9141.6
27.5°	12087.4	12106.7	11998.2	11872.2	11938.1	12201.6	12986.6	13242.4	14420.7	13273.4	9207.4
30°	12845.1	12852.8	12670.7	12519.5	12476.9	12672.6	13323.8	13562.1	14765.7	13899.4	9306.3
32.5°	13620.3	13678.4	13444.0	13230.8	13159.0	13219.1	13821.8	14052.4	15176.5	14571.8	9465.2
35°	14674.6	14684.3	14403.2	14143.6	13907.1	13984.7	14459.5	14626.1	15744.4	15349.0	9690.0
37.5°	15990.4	16079.7	15692.1	15207.6	14916.8	14804.5	15230.8	15412.9	16540.9	16302.5	10029.2
40°	17451.8	17484.6	17153.3	16850.9	16319.9	15994.4	16288.9	16486.6	17523.4	17440.1	10422.6
42.5°	18370.4	18442.0	18467.3	18436.2	18037.0	17490.5	17602.9	17695.9	18686.3	18508.0	10825.7
45°	18680.5	18787.0	19147.5	19911.1	19953.7	19414.9	19153.3	19242.4	19953.7	19585.5	11211.4
47.5°	18166.9	18349.0	19013.7	20579.7	21752.1	21792.8	21004.1	20808.4	21108.8	20478.9	11490.4
50°	16839.3	16878.1	17895.6	20163.0	22595.2	24066.1	23250.3	22885.9	22205.7	21139.8	11682.3
52.5°	14785.0	14829.6	15682.3	18226.9	22075.8	25655.3	25878.2	25227.0	23320.0	21653.3	11808.2
55°	10974.9	11232.6	12170.7	14630.0	19614.6	25506.1	27967.4	27597.2	24667.0	22060.3	12005.9
57.5°	6748.1	6511.7	7624.1	9953.6	14752.1	23455.7	28612.7	28732.8	26149.5	22401.4	12337.3
60°	3104.7	3151.2	3610.5	5133.8	8992.3	18349.0	26949.9	27709.6	26969.3	22389.8	12420.6
62.5°	2139.6	2096.9	1980.6	2253.9	4100.8	11604.8	22763.8	24050.7	25325.9	21694.0	12089.3
65°	1912.8	1870.2	1645.3	1569.8	1883.8	5058.2	16548.6	18172.7	21323.9	19938.2	11263.7
67.5°	1786.9	1728.7	1496.1	1348.9	1345.0	2013.6	9757.9	11713.3	15816.1	16856.8	9759.8
70°	1655.1	1608.6	1377.9	1215.2	1145.4	1265.5	4288.8	5614.4	10269.5	12147.4	7602.8
72.5°	1523.3	1469.0	1261.7	1087.2	996.2	947.7	1643.4	2137.7	5802.4	7283.1	4660.9
75°	1331.4	1304.3	1127.9	984.5	885.7	765.5	1042.7	1189.9	2775.2	3345.0	2339.2
77.5°	1164.7	1135.7	1002.0	860.5	788.8	622.1	740.3	808.1	1170.6	1356.6	1056.2
80°	852.7	881.8	845.0	759.7	703.5	488.4	498.0	554.3	695.8	769.3	645.4
82.5°	540.7	595.0	651.2	585.3	532.9	385.7	345.0	366.3	474.8	503.8	286.9
85°	226.7	230.6	377.9	356.6	304.3	228.7	207.4	219.0	253.9	265.5	133.7
87.5°	87.2	85.3	133.7	124.0	94.9	65.9	65.9	73.7	100.8	93.0	42.6
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°	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1
2.5°	7463.3	7325.7	7052.4	6713.3	6465.2	6186.1	5940.0	5763.6	5697.8	5666.7	5608.5
5°	7457.5	7186.1	6620.2	6027.2	5550.4	5062.1	4649.3	4381.9	4358.6	4180.3	4162.9
7.5°	7459.4	7044.6	6143.5	5271.4	4544.6	4044.6	3703.5	3614.4	3507.8	3480.6	3494.2
10°	7465.2	6864.4	5631.8	4523.3	3819.8	3492.3	3364.3	3329.5	3333.4	3345.0	3346.9
12.5°	7473.0	6690.0	5100.8	3955.5	3412.9	3277.1	3263.6	3294.6	3327.6	3352.7	3358.5
15°	7482.6	6490.4	4583.4	3498.1	3209.3	3197.7	3242.3	3294.6	3341.1	3378.0	3383.8
17.5°	7471.0	6257.8	4149.2	3217.1	3096.9	3153.2	3226.7	3292.7	3335.3	3370.2	3374.1
20°	7443.9	5998.1	3730.7	3019.4	3027.2	3118.3	3197.7	3259.7	3306.2	3323.7	3337.3
22.5°	7339.2	5688.0	3366.4	2866.3	2943.8	3069.8	3164.8	3201.6	3149.3	3112.5	3122.1
25°	7160.9	5284.9	3027.2	2742.2	2868.2	3001.9	3098.8	3009.7	2967.0	2951.6	2959.3
27.5°	6938.1	4843.1	2771.3	2612.4	2771.3	2926.4	2899.3	2883.8	2864.4	2839.2	2845.0
30°	6697.7	4410.9	2554.3	2511.6	2666.7	2755.9	2767.5	2792.6	2771.3	2732.6	2748.1
32.5°	6474.9	4003.9	2389.5	2426.4	2593.1	2579.5	2666.7	2695.7	2596.9	2467.1	2472.9
35°	6285.0	3626.0	2265.5	2343.0	2467.1	2472.9	2560.1	2459.3	2352.7	2290.7	2294.6
37.5°	6141.6	3331.5	2184.2	2271.4	2306.2	2379.9	2333.4	2281.0	2267.5	2224.9	2226.8
40°	6056.3	3073.7	2131.8	2215.1	2209.3	2259.7	2110.5	2162.8	2182.2	2168.6	2170.5
42.5°	5971.0	2891.5	2077.5	2137.7	2135.7	2036.8	2003.9	2048.5	2098.9	2104.7	2100.8
45°	5903.1	2750.1	2021.3	2019.4	2058.2	1903.1	1893.4	1920.6	1992.2	2027.1	2025.2
47.5°	5827.5	2631.8	1936.1	1881.8	1893.4	1819.8	1804.3	1815.9	1903.1	1959.4	1974.8
50°	5732.6	2513.6	1829.5	1755.8	1707.4	1742.3	1746.2	1748.1	1835.3	1899.2	1912.8
52.5°	5657.1	2424.4	1707.4	1653.2	1595.0	1672.5	1701.6	1705.5	1757.8	1810.1	1819.8
55°	5701.6	2374.1	1587.2	1548.4	1496.1	1600.8	1657.0	1664.8	1676.4	1715.1	1720.9
57.5°	5835.4	2385.7	1490.3	1440.0	1401.2	1515.5	1610.5	1616.3	1608.6	1655.1	1662.8
60°	5876.1	2379.9	1418.6	1319.8	1296.5	1424.4	1542.6	1554.3	1552.3	1620.2	1633.7
62.5°	5705.5	2306.2	1346.9	1219.0	1203.5	1331.4	1447.7	1494.2	1503.9	1600.8	1618.3
65°	5304.4	2155.1	1251.9	1112.4	1112.4	1232.6	1356.6	1420.5	1447.7	1577.5	1596.9
67.5°	4775.3	1976.8	1155.0	1021.3	1017.4	1137.6	1259.7	1325.6	1368.2	1544.6	1556.2
70°	3963.2	1736.4	1034.9	922.5	922.5	1031.0	1141.5	1221.0	1282.9	1482.6	1482.6
72.5°	2715.2	1443.8	889.5	810.1	812.0	912.8	1025.2	1114.3	1188.0	1358.6	1362.4
75°	1717.1	1127.9	730.7	690.0	697.7	792.6	909.0	1002.0	1149.2	1343.1	1348.9
77.5°	912.8	792.6	581.4	571.7	581.4	668.6	798.4	926.4	1153.1	1164.7	1145.4
80°	591.1	562.0	459.3	439.9	443.8	538.7	711.2	879.9	926.4	938.0	895.3
82.5°	321.7	356.6	325.6	306.2	306.2	420.6	606.6	699.6	664.7	552.4	527.1
85°	137.6	166.7	168.6	147.3	141.5	259.7	407.0	381.8	354.6	339.2	335.3
87.5°	38.8	54.2	54.2	40.7	31.0	71.7	81.4	23.3	0.0	1.9	3.9
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)