

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: P651940

Luminaire Tested: **GALN-SA6A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651940
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-SA6A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23029.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

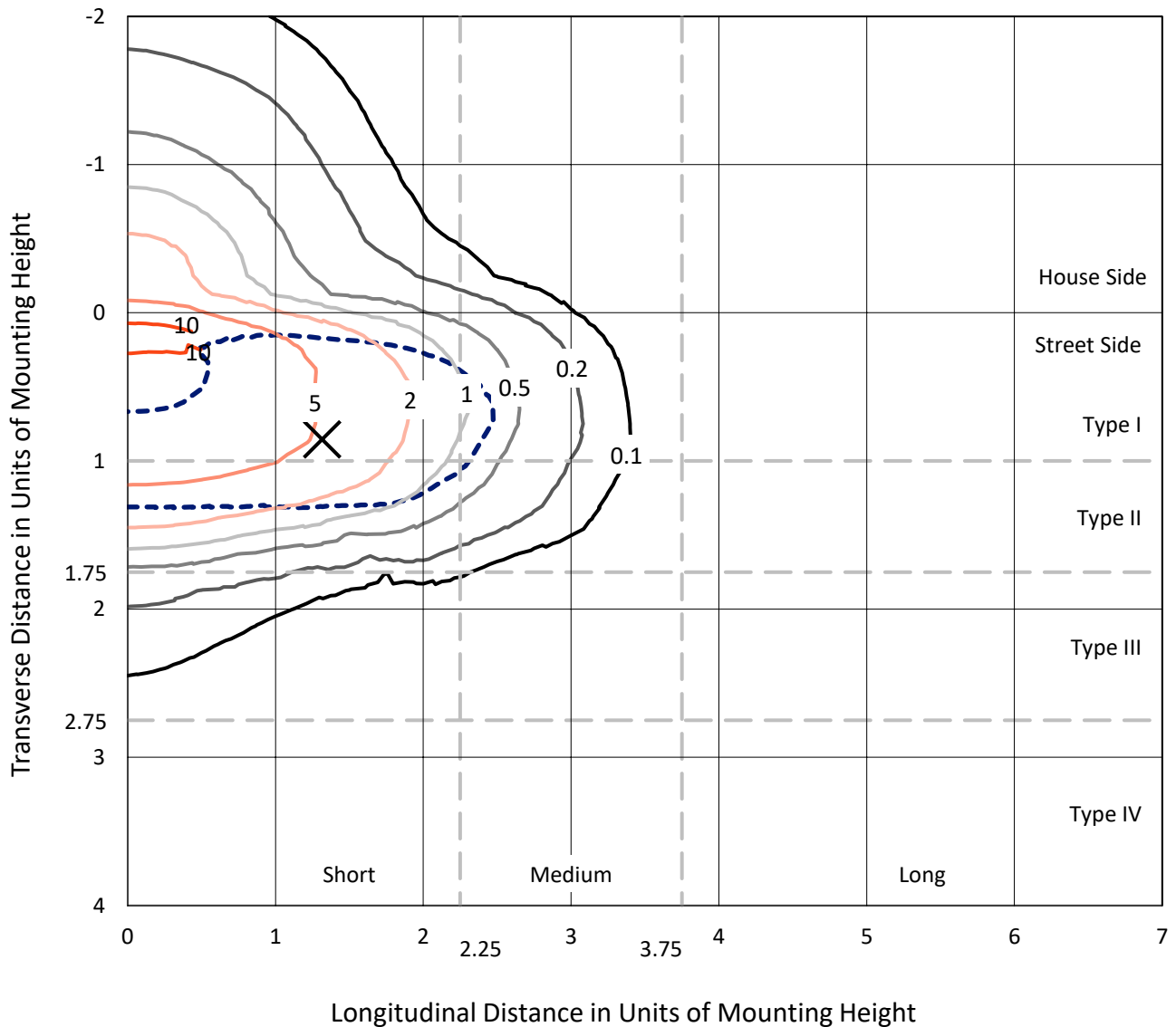
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

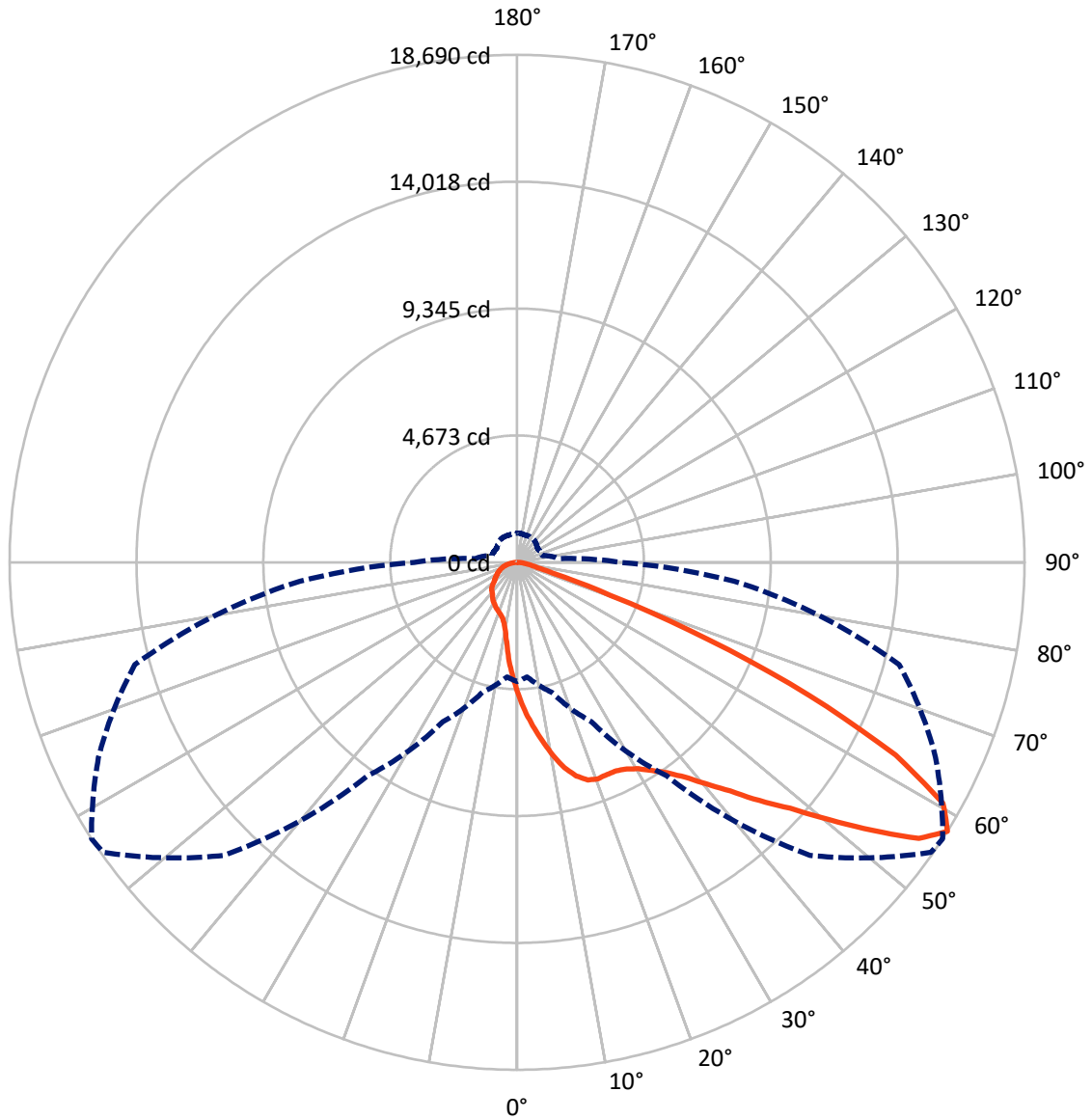
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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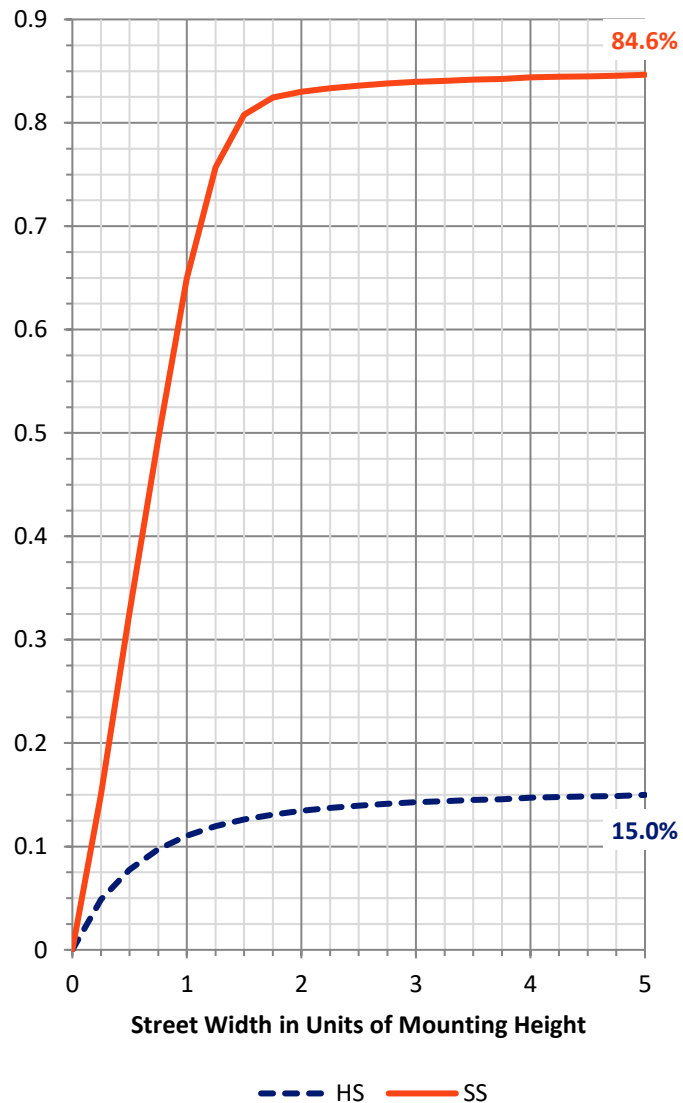
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.2	0.0	3502.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	19527.7	0.0	19527.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	23029.9	0.0	23029.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	2.0
10°-20°	1370.4	6.0
20°-30°	2275.6	9.9
30°-40°	3427.7	14.9
40°-50°	5146.4	22.3
50°-60°	5768.4	25.0
60°-70°	3376.0	14.7
70°-80°	998.6	4.3
80°-90°	201.8	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°	23029.9	100.0
0°-180°	23029.9	100.0

Coefficient of Utilization

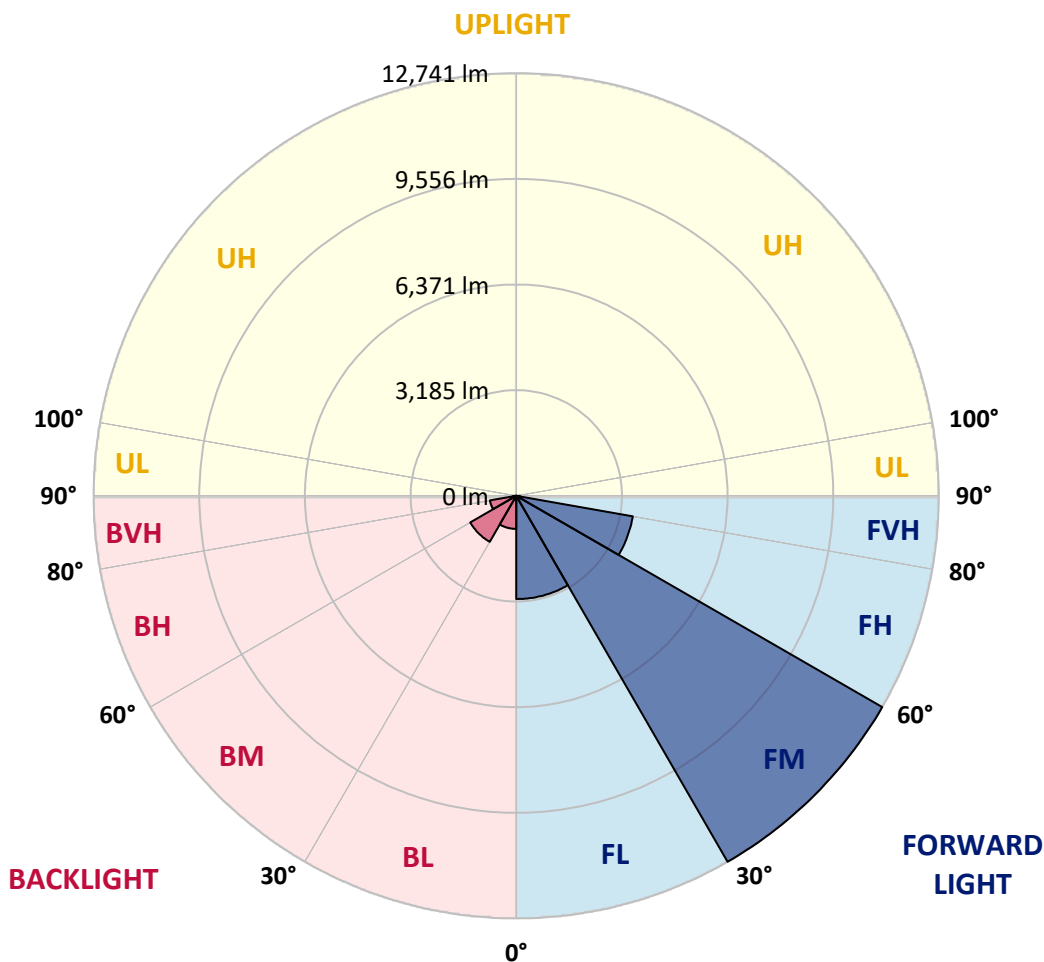


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3113.1	13.5			
FM (30°-60°)	12741.2	55.3			
FH (60°-80°)	3568.7	15.5			G2/5000
FVH (80°-90°)	104.7	0.5			G2/225
BL (0°-30°)	997.9	4.3	B2/1000		
BM (30°-60°)	1601.3	7.0	B2/2500		
BH (60°-80°)	805.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	97.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4
2.5°	6012.0	5946.5	5894.7	5849.3	5790.1	5630.0	5469.9	5467.4	5340.1	5143.4	4941.7
5°	6991.5	6903.3	6914.6	6773.4	6632.2	6400.3	6061.2	6043.5	5772.5	5404.4	5029.9
7.5°	7629.4	7630.6	7595.3	7514.7	7362.1	7098.6	6714.1	6627.2	6250.2	5691.8	5130.8
10°	7596.6	7630.6	7689.9	7759.2	7805.9	7676.1	7325.5	7219.6	6729.3	6039.7	5243.0
12.5°	7160.4	7213.3	7297.9	7471.8	7752.9	7967.2	7847.5	7761.8	7284.0	6386.4	5366.5
15°	6888.1	6919.7	6966.3	7083.5	7386.1	7899.2	8209.3	8163.9	7807.2	6778.5	5505.2
17.5°	6805.0	6836.4	6851.5	6923.4	7139.0	7664.7	8351.7	8432.4	8271.1	7139.0	5645.1
20°	6888.1	6903.3	6903.3	6946.2	7115.0	7527.3	8345.4	8508.1	8651.8	7571.4	5776.2
22.5°	7106.2	7112.5	7103.7	7118.8	7244.9	7565.0	8286.2	8487.9	8959.3	7938.2	5878.3
25°	7460.4	7470.5	7412.6	7377.3	7469.3	7731.5	8318.9	8504.3	9200.1	8288.7	5946.5
27.5°	7862.6	7875.2	7804.6	7722.7	7765.5	7936.9	8447.5	8613.9	9380.4	8634.1	5989.3
30°	8355.5	8360.5	8242.1	8143.7	8116.0	8243.3	8666.9	8821.9	9604.8	9041.3	6053.6
32.5°	8859.8	8897.6	8745.1	8606.4	8559.7	8598.8	8990.9	9140.9	9872.1	9478.7	6157.0
35°	9545.5	9551.8	9369.1	9200.1	9046.3	9096.8	9405.7	9514.1	10241.4	9984.3	6303.2
37.5°	10401.5	10459.5	10207.4	9892.3	9703.1	9630.0	9907.3	10025.8	10759.5	10604.5	6523.8
40°	11352.1	11373.4	11157.9	10961.3	10615.9	10404.0	10595.7	10724.3	11398.7	11344.5	6779.7
42.5°	11949.6	11996.2	12012.6	11992.4	11732.8	11377.2	11450.4	11510.9	12155.1	12039.1	7041.9
45°	12151.3	12220.7	12455.1	12951.8	12979.5	12629.0	12458.9	12516.9	12979.5	12740.0	7292.8
47.5°	11817.2	11935.7	12368.1	13386.7	14149.4	14175.9	13662.8	13535.5	13730.8	13321.2	7474.3
50°	10953.7	10978.9	11640.7	13115.6	14697.7	15654.6	15123.9	14886.9	14444.4	13751.0	7599.1
52.5°	9617.4	9646.4	10201.1	11856.3	14359.9	16688.3	16833.3	16409.8	15169.3	14085.1	7681.1
55°	7139.0	7306.7	7916.8	9516.6	12758.9	16591.2	18192.3	17951.5	16045.4	14349.8	7809.6
57.5°	4389.5	4235.8	4959.4	6474.6	9596.0	15257.5	18612.1	18690.2	17009.8	14571.7	8025.2
60°	2019.6	2049.8	2348.6	3339.4	5849.3	11935.7	17530.4	18024.6	17543.0	14564.2	8079.4
62.5°	1391.8	1364.0	1288.4	1466.1	2667.5	7548.7	14807.5	15644.5	16474.0	14111.6	7863.9
65°	1244.3	1216.5	1070.3	1021.1	1225.3	3290.2	10764.5	11821.0	13870.8	12969.5	7326.8
67.5°	1162.3	1124.5	973.2	877.4	874.9	1309.8	6347.3	7619.3	10288.0	10965.0	6348.5
70°	1076.6	1046.3	896.3	790.5	745.0	823.2	2789.8	3652.0	6680.1	7901.7	4945.5
72.5°	990.9	955.5	820.6	707.2	648.0	616.5	1069.0	1390.5	3774.3	4737.4	3031.8
75°	866.1	848.4	733.7	640.4	576.1	498.0	678.2	774.1	1805.2	2175.8	1521.6
77.5°	757.7	738.7	651.8	559.7	513.1	404.7	481.6	525.7	761.4	882.5	687.0
80°	554.6	573.6	549.7	494.2	457.6	317.6	324.0	360.5	452.5	500.5	419.8
82.5°	351.7	387.0	423.6	380.7	346.7	250.9	224.4	238.3	308.8	327.7	186.5
85°	147.5	150.0	245.8	231.9	197.9	148.8	134.9	142.5	165.2	172.7	87.0
87.5°	56.8	55.5	87.0	80.7	61.7	42.9	42.9	47.9	65.5	60.6	27.8
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°	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4	4838.4
2.5°	4854.8	4765.2	4587.5	4366.8	4205.5	4023.9	3863.9	3749.2	3706.3	3686.1	3648.3
5°	4851.0	4674.4	4306.3	3920.6	3610.5	3292.8	3024.2	2850.3	2835.2	2719.2	2707.9
7.5°	4852.2	4582.4	3996.2	3428.9	2956.2	2631.0	2409.0	2351.1	2281.7	2264.1	2273.0
10°	4856.0	4465.2	3663.4	2942.3	2484.7	2271.7	2188.5	2165.7	2168.3	2175.8	2177.1
12.5°	4861.0	4351.8	3318.0	2573.0	2220.0	2131.8	2122.9	2143.1	2164.5	2180.9	2184.7
15°	4867.3	4221.9	2981.4	2275.4	2087.6	2080.0	2109.1	2143.1	2173.3	2197.3	2201.1
17.5°	4859.7	4070.6	2699.0	2092.7	2014.5	2051.0	2099.0	2141.9	2169.5	2192.2	2194.8
20°	4842.1	3901.7	2426.7	1964.1	1969.1	2028.4	2080.0	2120.4	2150.7	2162.0	2170.8
22.5°	4774.0	3700.0	2189.7	1864.5	1914.9	1996.9	2058.6	2082.6	2048.5	2024.6	2030.8
25°	4658.0	3437.8	1969.1	1783.8	1865.8	1952.7	2015.8	1957.8	1930.0	1919.9	1925.0
27.5°	4513.1	3150.3	1802.7	1699.3	1802.7	1903.6	1885.9	1875.9	1863.2	1846.8	1850.6
30°	4356.8	2869.2	1661.5	1633.8	1734.6	1792.6	1800.2	1816.6	1802.7	1777.5	1787.5
32.5°	4211.8	2604.5	1554.3	1578.3	1686.7	1677.9	1734.6	1753.6	1689.2	1604.8	1608.6
35°	4088.3	2358.7	1473.7	1524.1	1604.8	1608.6	1665.3	1599.8	1530.5	1490.1	1492.6
37.5°	3995.0	2167.0	1420.7	1477.5	1500.2	1548.0	1517.8	1483.8	1474.9	1447.2	1448.5
40°	3939.5	1999.4	1386.7	1440.9	1437.1	1469.9	1372.8	1406.9	1419.4	1410.7	1412.0
42.5°	3884.0	1880.9	1351.4	1390.5	1389.2	1324.9	1303.5	1332.5	1365.3	1369.1	1366.5
45°	3839.9	1788.8	1314.8	1313.6	1338.8	1238.0	1231.6	1249.3	1295.9	1318.6	1317.3
47.5°	3790.7	1711.9	1259.4	1224.1	1231.6	1183.7	1173.6	1181.2	1238.0	1274.5	1284.6
50°	3729.0	1635.1	1190.0	1142.2	1110.6	1133.3	1135.9	1137.1	1193.8	1235.4	1244.3
52.5°	3679.8	1577.0	1110.6	1075.3	1037.5	1087.9	1106.8	1109.4	1143.4	1177.4	1183.7
55°	3708.8	1544.2	1032.5	1007.3	973.2	1041.3	1077.8	1082.9	1090.4	1115.7	1119.5
57.5°	3795.8	1551.8	969.4	936.6	911.5	985.8	1047.5	1051.3	1046.3	1076.6	1081.6
60°	3822.3	1548.0	922.7	858.5	843.4	926.5	1003.5	1011.1	1009.8	1053.9	1062.7
62.5°	3711.3	1500.2	876.2	793.0	782.9	866.1	941.7	971.9	978.3	1041.3	1052.6
65°	3450.4	1401.9	814.3	723.6	723.6	801.7	882.5	924.0	941.7	1026.2	1038.8
67.5°	3106.2	1285.9	751.3	664.4	661.9	740.0	819.4	862.3	890.0	1004.7	1012.3
70°	2578.0	1129.5	673.2	600.1	600.1	670.7	742.5	794.2	834.5	964.4	964.4
72.5°	1766.2	939.1	578.6	527.0	528.2	593.7	666.9	724.9	772.8	883.7	886.2
75°	1116.9	733.7	475.2	448.8	453.8	515.6	591.2	651.8	747.6	873.6	877.4
77.5°	593.7	515.6	378.2	371.9	378.2	434.9	519.4	602.6	750.1	757.7	745.0
80°	384.5	365.6	298.8	286.2	288.7	350.4	462.6	572.3	602.6	610.1	582.4
82.5°	209.2	231.9	211.8	199.1	199.1	273.6	394.6	455.1	432.4	359.3	342.9
85°	89.5	108.4	109.7	95.8	92.0	169.0	264.7	248.3	230.7	220.6	218.1
87.5°	25.2	35.3	35.3	26.5	20.2	46.7	53.0	15.1	0.0	1.3	2.5
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)