

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: P652464

Luminaire Tested: **GALN-SA6B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652464
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-SA6B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28920.3 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

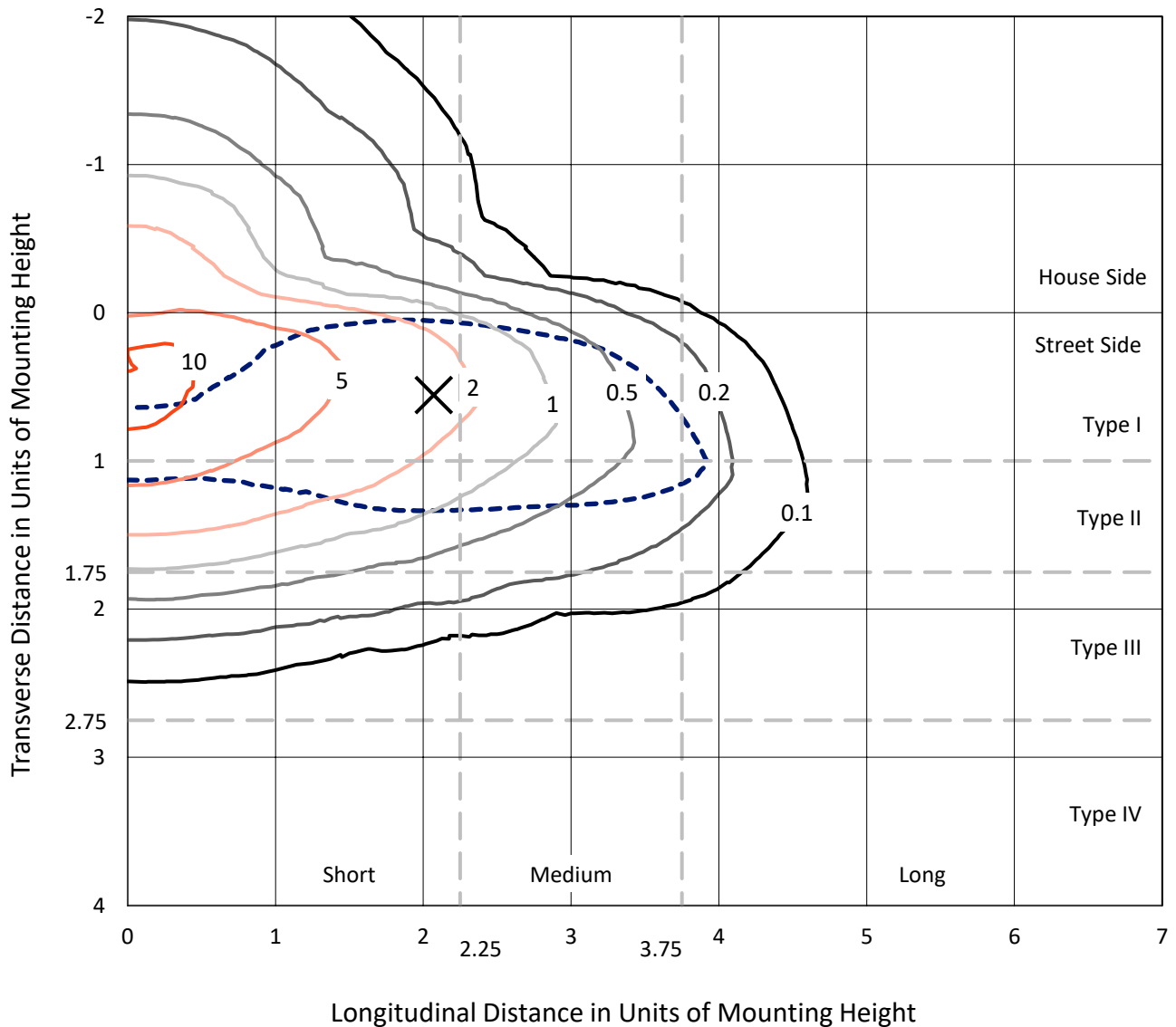
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

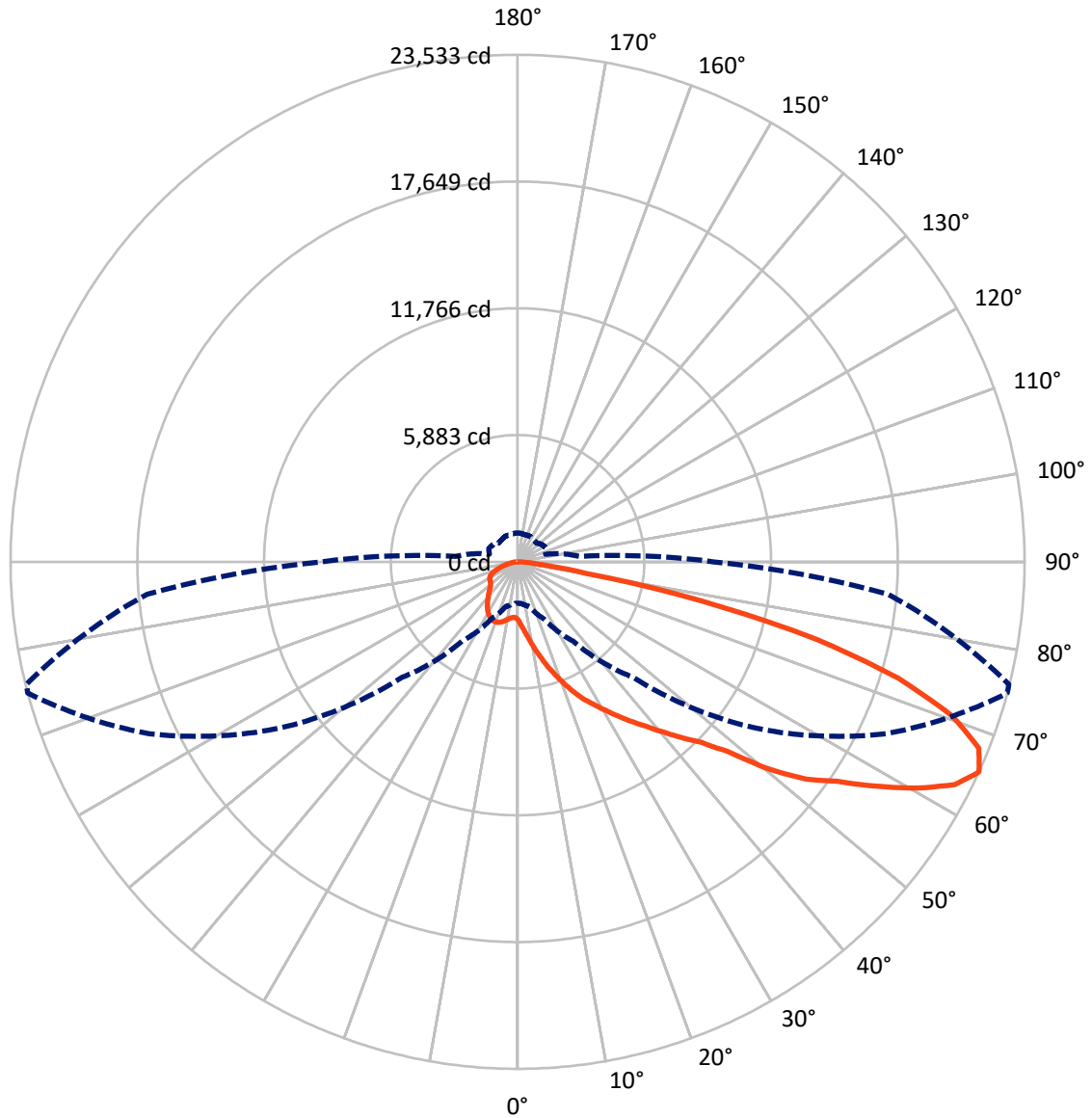
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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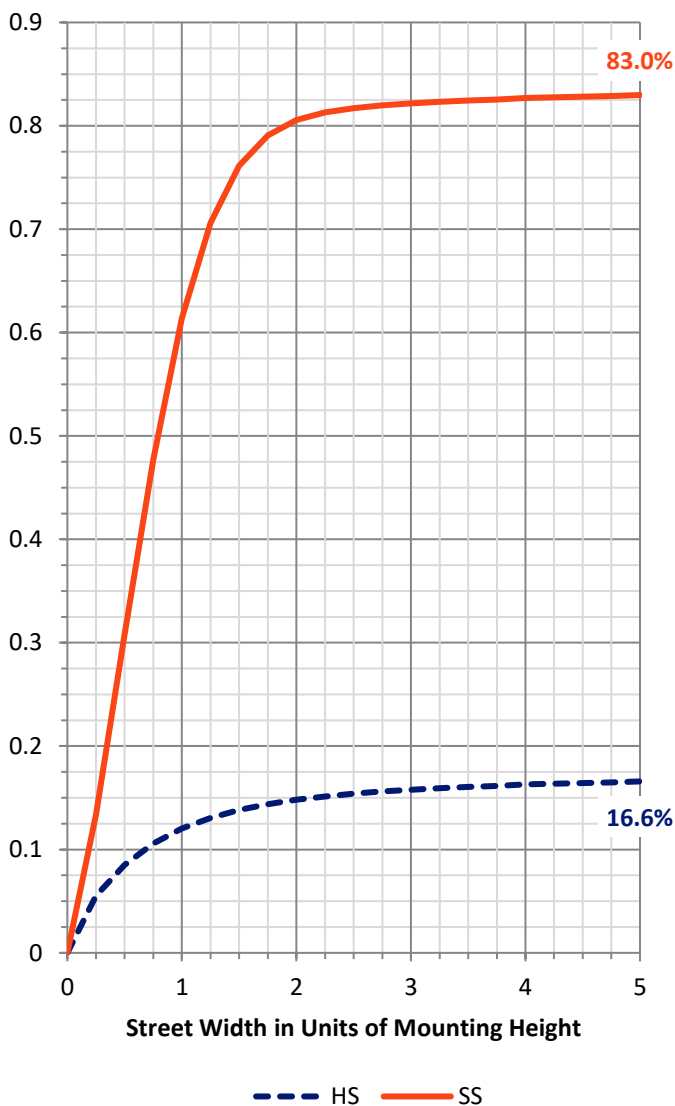
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4861.9	0.0	4861.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24058.4	0.0	24058.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	28920.3	0.0	28920.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.5	1.1
10°-20°	1278.7	4.4
20°-30°	2470.1	8.5
30°-40°	4012.2	13.9
40°-50°	5519.1	19.1
50°-60°	6516.2	22.5
60°-70°	5709.2	19.7
70°-80°	2725.6	9.4
80°-90°	362.7	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°	28920.3	100.0
0°-180°	28920.3	100.0

Coefficient of Utilization



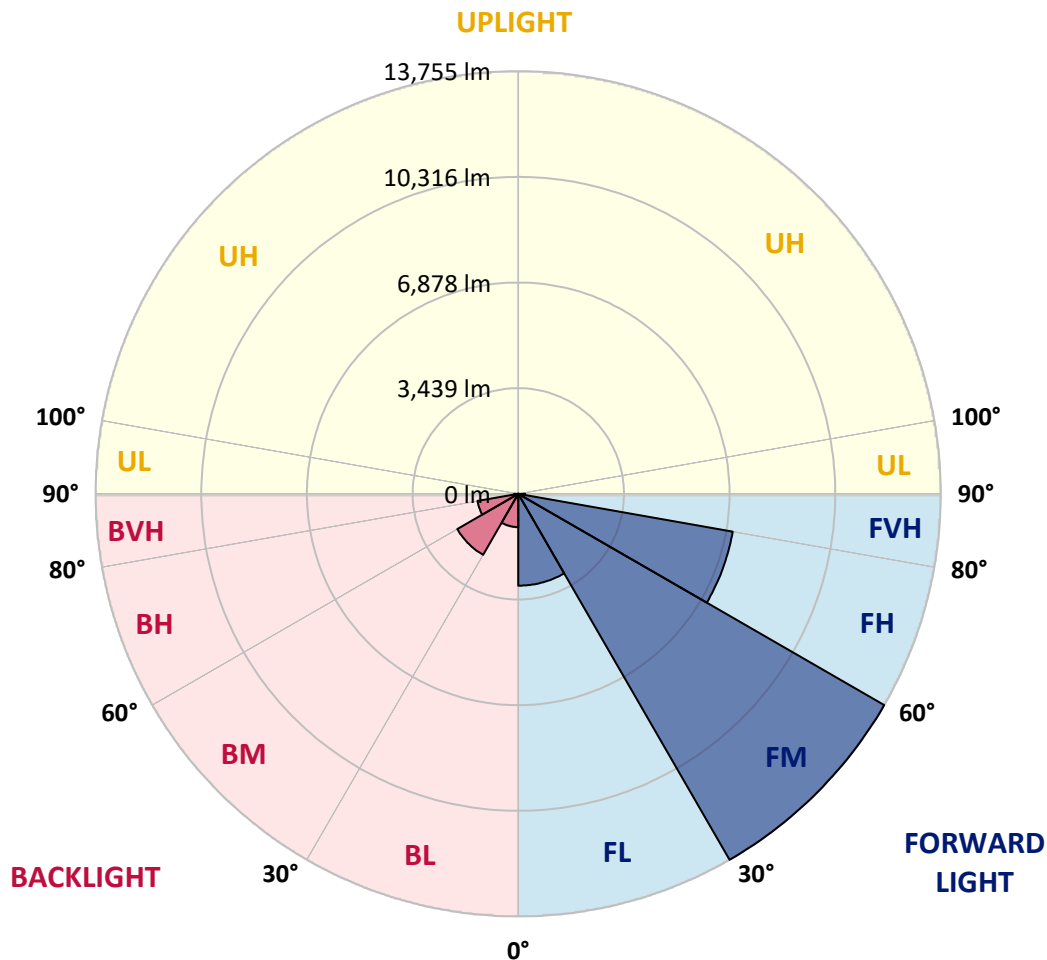
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2989.9	10.3			
FM (30°-60°)	13755.1	47.6			
FH (60°-80°)	7086.8	24.5			G3/7500
FVH (80°-90°)	226.6	0.8			G3/500
BL (0°-30°)	1085.4	3.8	B3/2500		
BM (30°-60°)	2292.3	7.9	B2/2500		
BH (60°-80°)	1348.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	136.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1
2.5°	3570.2	3546.7	3521.6	3452.6	3378.8	3295.7	3176.5	3062.0	2909.8	2905.1	2792.1
5°	4560.0	4544.3	4432.9	4368.7	4197.7	3970.2	3777.3	3477.6	3200.0	3167.0	2947.5
7.5°	5469.8	5408.6	5366.3	5250.2	5080.8	4789.0	4415.7	4011.0	3546.7	3502.8	3138.9
10°	6155.3	6149.1	6127.1	6026.7	5899.6	5609.4	5195.3	4614.9	3985.9	3899.6	3371.0
12.5°	6668.2	6672.9	6669.8	6668.2	6577.3	6331.0	5882.4	5270.6	4429.8	4368.7	3639.3
15°	7005.5	7052.5	7071.4	7149.8	7157.7	6992.9	6607.1	5904.3	4930.2	4839.2	3927.8
17.5°	7228.2	7251.8	7339.6	7473.0	7581.2	7551.4	7207.9	6491.0	5441.6	5289.4	4227.5
20°	7441.6	7482.4	7549.8	7731.7	7923.1	8011.0	7769.4	7091.7	5948.2	5851.0	4558.5
22.5°	7885.5	7943.5	7967.0	8059.6	8222.8	8378.0	8268.2	7667.5	6503.5	6371.8	4909.8
25°	8636.9	8698.0	8632.2	8610.2	8663.6	8740.4	8716.9	8210.2	7027.5	6839.3	5242.4
27.5°	9615.7	9623.6	9494.9	9372.5	9240.8	9201.5	9129.4	8691.7	7482.4	7325.5	5576.5
30°	10666.7	10629.1	10415.7	10194.5	9971.7	9752.2	9545.1	9156.1	7989.0	7808.6	5904.3
32.5°	11642.4	11621.9	11385.1	11041.6	10665.1	10458.1	10039.2	9625.1	8531.8	8357.7	6241.6
35°	12373.4	12403.2	12142.8	11767.9	11356.9	11173.4	10644.7	10117.7	9093.3	8903.5	6608.7
37.5°	12892.5	12876.9	12646.3	12321.6	11960.8	11800.8	11352.2	10655.7	9697.2	9515.3	7010.2
40°	13077.6	13068.2	12897.2	12660.4	12431.4	12374.9	12092.6	11236.1	10389.0	10175.7	7493.3
42.5°	12960.0	12980.4	12867.5	12803.1	12760.8	12801.6	12828.3	11996.9	11143.5	10947.5	8017.3
45°	12599.2	12588.3	12572.5	12677.7	12916.1	13184.4	13556.1	12715.3	11963.9	11807.1	8720.0
47.5°	11954.6	12032.9	12072.1	12362.4	12883.1	13518.5	14393.7	13678.4	13154.5	13018.1	9791.3
50°	11052.6	11115.3	11347.4	11863.6	12640.0	13644.0	15212.6	15253.4	15140.4	14884.7	10955.3
52.5°	9643.9	9741.2	10219.6	11165.5	12141.2	13592.2	15708.3	16603.9	16753.0	16561.6	12102.0
55°	8067.5	8204.0	8709.1	9949.8	11454.2	13309.8	16050.2	17386.7	17981.2	17804.0	13206.3
57.5°	6523.9	6668.2	7187.4	8389.1	10255.7	12685.5	16274.5	18258.9	19653.3	19422.7	14580.4
60°	4889.4	5040.0	5485.5	6723.1	8549.0	11465.1	16122.4	19014.9	21324.0	21225.2	15956.1
62.5°	3154.5	3320.8	3708.2	4732.6	6571.0	9797.6	15308.2	19432.1	22770.2	22651.0	16960.0
65°	1921.6	1940.4	2153.7	2938.0	4497.2	7585.9	13446.3	18878.4	23532.6	23496.5	17265.9
67.5°	1242.3	1272.2	1369.4	1760.0	2696.5	5269.0	10751.3	17051.0	23087.0	23074.5	16633.7
70°	1049.4	1058.8	1102.7	1187.5	1567.0	3195.3	7549.8	14138.1	21394.5	21394.5	15113.8
72.5°	938.1	950.6	966.3	993.0	1118.4	1810.2	4505.1	11005.5	18472.1	18594.5	12864.4
75°	851.8	848.7	858.1	862.8	953.7	1182.8	2329.4	8139.6	14290.2	14045.5	9316.1
77.5°	729.4	734.1	729.4	749.8	842.3	900.4	1182.8	5462.0	8660.4	8343.6	4676.0
80°	599.2	607.0	614.9	627.5	720.0	683.9	710.6	2489.4	3203.1	3135.7	1444.7
82.5°	450.2	461.2	473.7	503.5	566.2	451.8	448.6	1063.5	1156.0	1058.8	531.8
85°	182.0	214.9	324.7	354.5	356.1	247.8	276.1	444.0	472.1	461.2	208.7
87.5°	42.4	50.2	105.1	158.4	145.9	92.5	101.9	144.3	164.7	152.1	70.6
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°	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1	2687.1
2.5°	2740.4	2685.5	2591.4	2519.2	2467.5	2422.0	2393.7	2376.5	2370.2	2368.6	2370.2
5°	2832.9	2735.7	2586.7	2492.6	2440.8	2411.0	2393.7	2392.1	2393.7	2395.3	2390.6
7.5°	2960.0	2820.4	2625.9	2538.1	2498.9	2476.8	2469.0	2465.9	2467.5	2465.9	2465.9
10°	3129.4	2938.0	2702.7	2611.8	2578.8	2553.7	2541.2	2533.3	2527.0	2520.8	2517.6
12.5°	3316.1	3068.2	2785.9	2698.0	2651.0	2611.8	2583.6	2563.1	2549.0	2534.9	2531.7
15°	3524.7	3206.3	2878.4	2756.0	2688.6	2630.6	2582.0	2549.0	2523.9	2503.6	2502.0
17.5°	3723.9	3336.5	2941.1	2782.8	2683.9	2602.4	2538.1	2492.6	2461.2	2434.5	2431.4
20°	3937.2	3460.4	2969.4	2765.5	2636.9	2538.1	2453.4	2398.4	2362.4	2332.5	2327.8
22.5°	4152.2	3565.5	2966.3	2710.6	2555.3	2439.2	2349.8	2291.8	2249.4	2219.7	2208.6
25°	4357.6	3650.2	2927.1	2622.7	2442.3	2321.6	2230.6	2177.3	2139.6	2103.5	2103.5
27.5°	4542.7	3700.4	2853.3	2516.1	2326.3	2199.2	2127.1	2078.4	2043.9	2020.4	2006.3
30°	4724.7	3723.9	2752.9	2381.2	2203.9	2095.7	2037.7	2009.4	1978.0	1951.4	1948.3
32.5°	4887.8	3719.2	2627.5	2249.4	2087.9	2011.0	1987.5	1965.5	1932.5	1894.9	1885.5
35°	5046.3	3687.9	2478.4	2105.1	1990.6	1960.8	1967.1	1935.7	1876.1	1829.0	1821.2
37.5°	5218.8	3631.4	2315.3	1987.5	1909.0	1937.2	1953.0	1883.9	1786.7	1712.9	1695.7
40°	5418.1	3567.1	2145.9	1869.8	1844.7	1915.3	1915.3	1788.2	1654.9	1609.4	1596.9
42.5°	5651.8	3513.7	2004.7	1771.0	1791.4	1862.0	1854.2	1661.1	1606.3	1582.8	1576.5
45°	6022.0	3494.9	1858.9	1684.7	1747.4	1799.2	1734.9	1617.2	1585.9	1567.0	1560.8
47.5°	6607.1	3516.9	1730.2	1620.4	1697.2	1736.5	1601.6	1587.5	1565.5	1538.9	1535.7
50°	7149.8	3496.5	1639.2	1584.3	1653.3	1661.1	1546.7	1551.4	1538.9	1509.0	1502.8
52.5°	7593.7	3432.1	1581.2	1565.5	1615.7	1529.4	1494.9	1512.1	1507.5	1469.8	1463.5
55°	8081.6	3392.9	1552.9	1565.5	1590.6	1414.9	1446.3	1471.4	1465.1	1438.4	1436.8
57.5°	8673.0	3400.8	1532.6	1570.2	1565.5	1356.9	1397.7	1427.4	1425.9	1418.0	1418.0
60°	9278.4	3403.9	1501.2	1568.6	1535.7	1311.4	1347.5	1389.8	1392.9	1397.7	1397.7
62.5°	9479.2	3267.5	1440.0	1540.4	1469.8	1267.5	1300.4	1358.5	1355.3	1367.9	1369.4
65°	9104.3	2889.4	1349.0	1476.0	1385.1	1236.1	1264.3	1317.7	1300.4	1333.3	1339.6
67.5°	8287.0	2390.6	1207.8	1360.0	1291.0	1203.1	1240.8	1261.2	1229.8	1294.1	1295.7
70°	7162.4	1866.7	1029.0	1195.3	1184.3	1168.7	1222.0	1190.6	1146.7	1225.1	1209.4
72.5°	5989.0	1425.9	822.0	977.2	1041.6	1116.8	1189.0	1099.6	1038.5	1061.9	1033.8
75°	4498.8	1054.1	660.4	765.5	867.5	1043.2	1159.2	989.8	895.7	873.7	867.5
77.5°	2293.3	688.6	494.1	572.6	651.0	942.8	1118.4	861.2	741.9	707.4	691.8
80°	818.8	428.2	348.3	395.3	439.3	811.0	977.2	712.2	575.7	569.4	575.7
82.5°	379.6	276.1	233.7	258.9	260.4	541.2	745.1	531.8	437.7	665.1	561.5
85°	163.2	138.0	131.8	128.6	119.3	241.5	418.8	285.5	445.5	199.2	183.5
87.5°	48.6	54.9	48.6	36.1	26.7	26.7	42.4	15.7	11.0	7.8	7.8
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)