

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: P646964

Luminaire Tested: **GALN-SA5C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646964
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-SA5C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28094.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

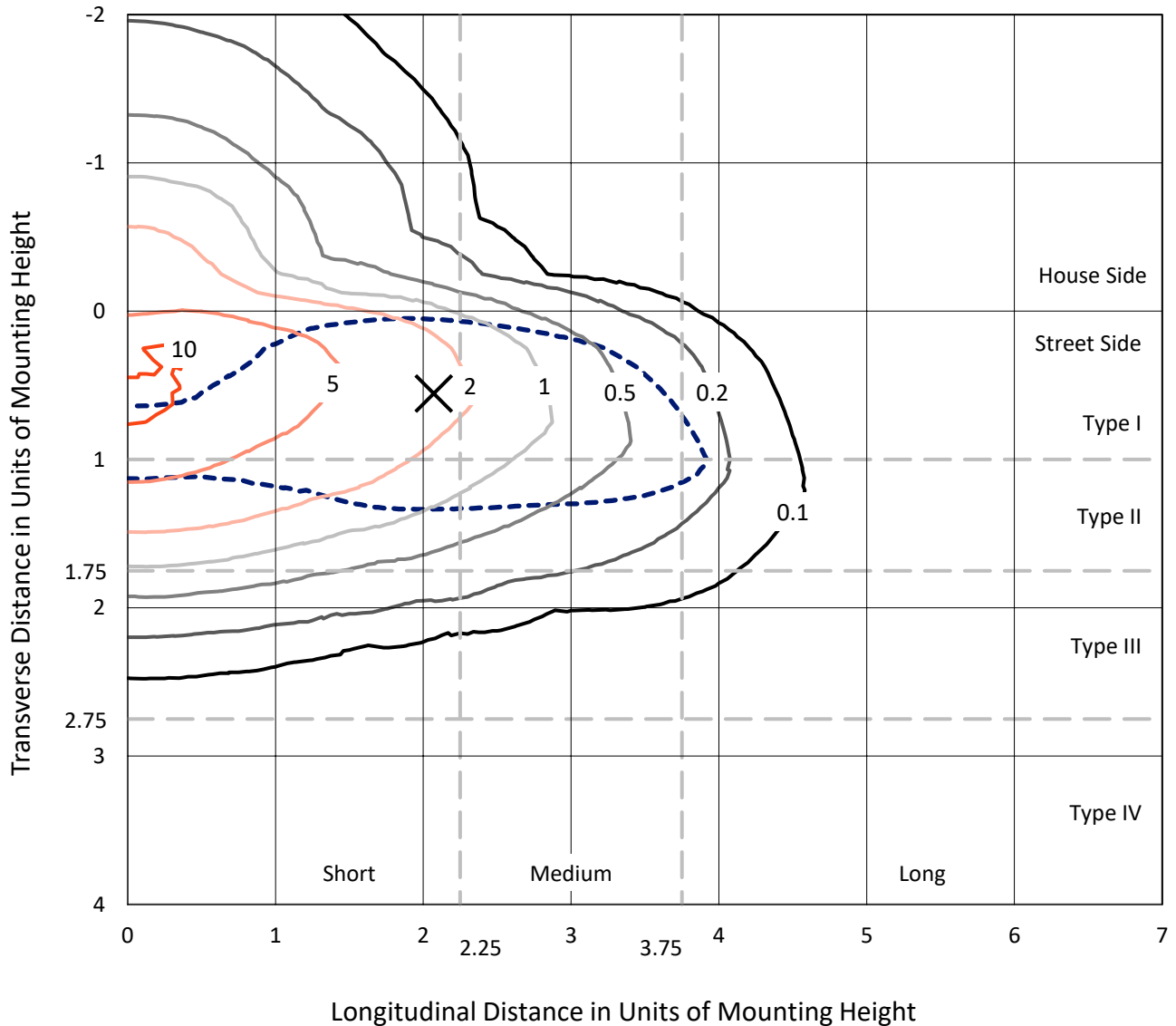
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

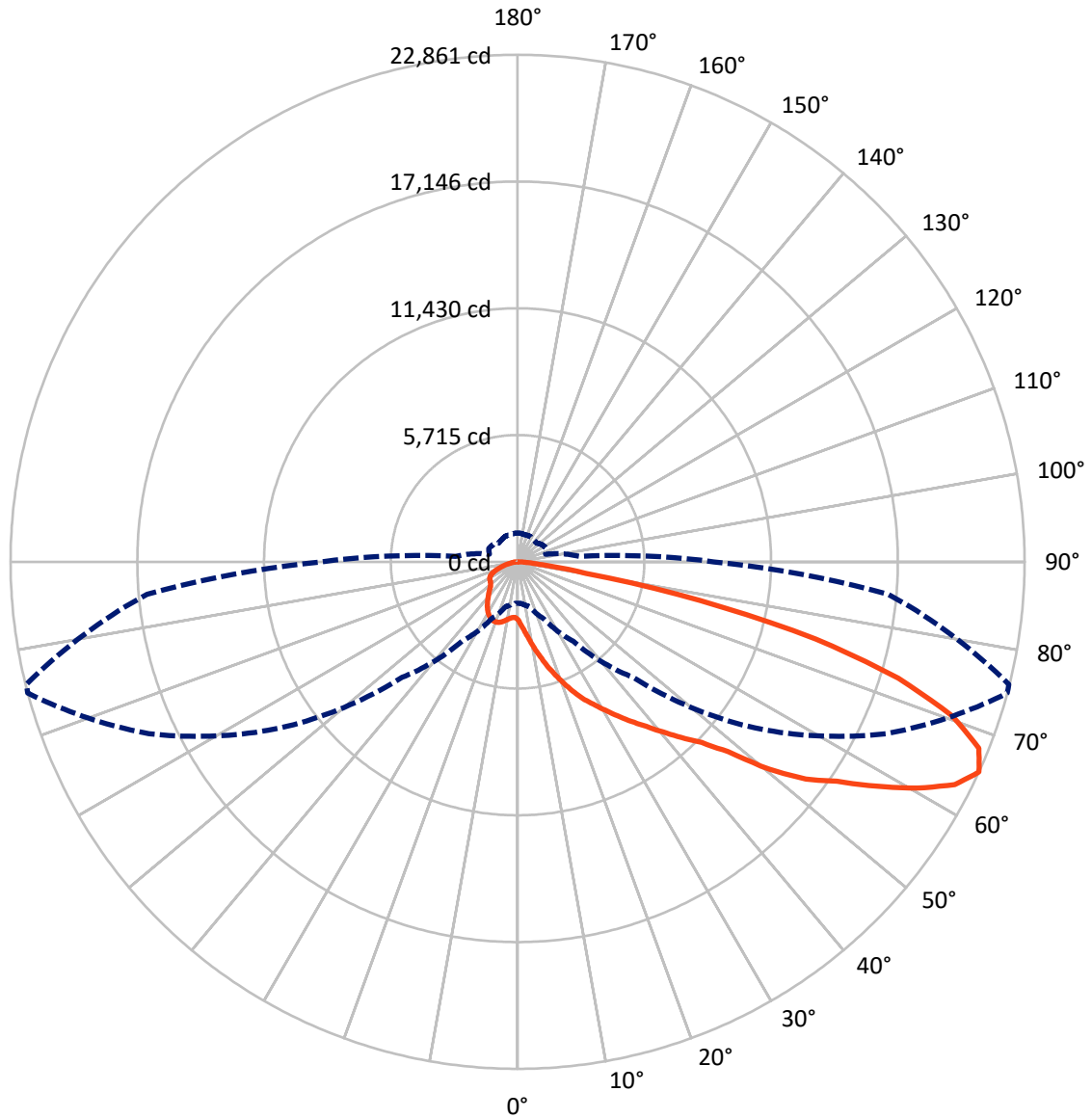
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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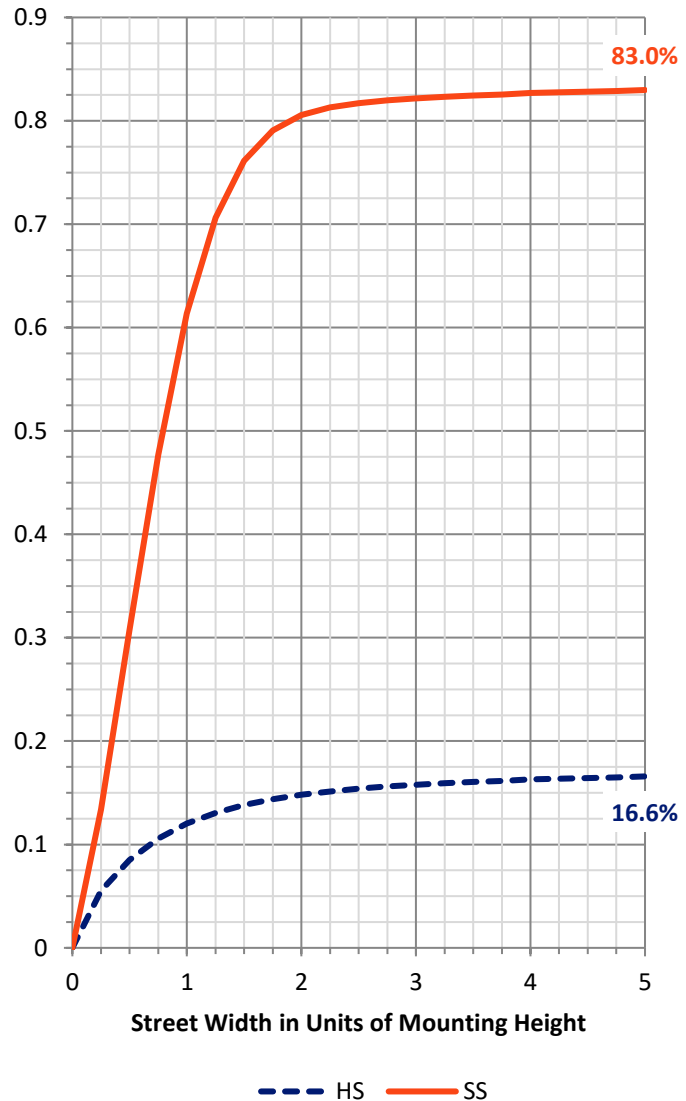
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4723.1	0.0	4723.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23371.7	0.0	23371.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	28094.8	0.0	28094.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.1
10°-20°	1242.2	4.4
20°-30°	2399.6	8.5
30°-40°	3897.7	13.9
40°-50°	5361.6	19.1
50°-60°	6330.2	22.5
60°-70°	5546.3	19.7
70°-80°	2647.8	9.4
80°-90°	352.3	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°	28094.8	100.0
0°-180°	28094.8	100.0

Coefficient of Utilization



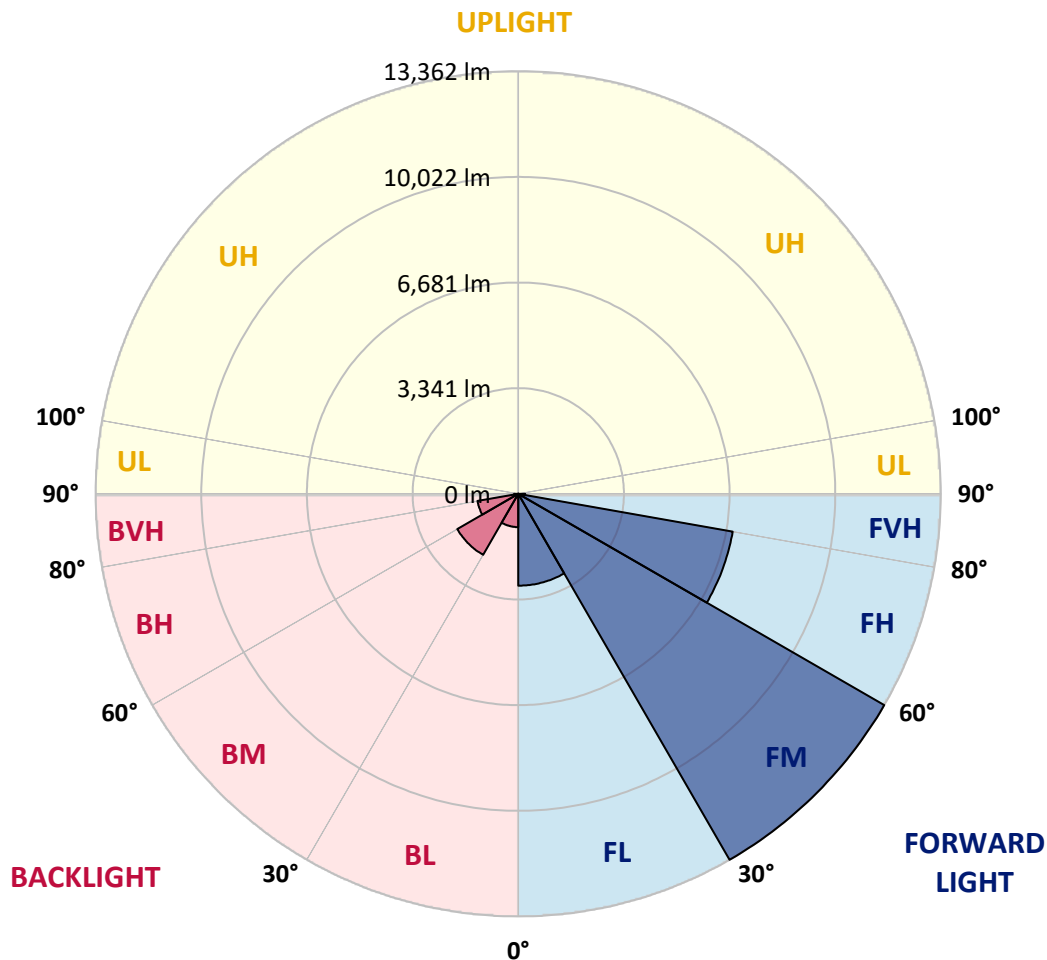
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.6	10.3			
FM (30°-60°)	13362.5	47.6			
FH (60°-80°)	6884.5	24.5			G3/7500
FVH (80°-90°)	220.2	0.8			G2/225
BL (0°-30°)	1054.4	3.8	B3/2500		
BM (30°-60°)	2226.9	7.9	B2/2500		
BH (60°-80°)	1309.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.1	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°	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4
2.5°	3468.3	3445.4	3421.1	3354.0	3282.4	3201.6	3085.8	2974.5	2826.8	2822.2	2712.5
5°	4429.8	4414.6	4306.4	4243.9	4077.9	3856.9	3669.5	3378.4	3108.7	3076.6	2863.4
7.5°	5313.7	5254.2	5213.1	5100.3	4935.8	4652.4	4289.7	3896.5	3445.4	3402.8	3049.2
10°	5979.6	5973.5	5952.2	5854.6	5731.2	5449.3	5047.0	4483.1	3872.1	3788.3	3274.7
12.5°	6477.9	6482.5	6479.4	6477.9	6389.5	6150.3	5714.5	5120.1	4303.4	4243.9	3535.3
15°	6805.5	6851.2	6869.6	6945.8	6953.4	6793.3	6418.5	5735.8	4789.5	4701.1	3815.7
17.5°	7021.9	7044.8	7130.2	7259.7	7364.8	7335.8	7002.1	6305.7	5286.3	5138.4	4106.8
20°	7229.2	7268.8	7334.3	7511.1	7697.0	7782.3	7547.7	6889.4	5778.5	5684.0	4428.3
22.5°	7660.4	7716.8	7739.6	7829.5	7988.1	8138.9	8032.2	7448.6	6317.9	6189.9	4769.6
25°	8390.3	8449.7	8385.8	8364.5	8416.2	8490.9	8468.1	7975.9	6826.9	6644.0	5092.7
27.5°	9341.3	9348.9	9223.9	9105.0	8977.0	8939.0	8868.8	8443.7	7268.8	7116.4	5417.3
30°	10362.2	10325.7	10118.4	9903.5	9687.1	9473.8	9272.7	8894.7	7761.0	7585.8	5735.8
32.5°	11310.0	11290.2	11060.1	10726.4	10360.7	10159.5	9752.7	9350.4	8288.2	8119.1	6063.4
35°	12020.1	12049.1	11796.1	11432.0	11032.7	10854.4	10340.8	9828.8	8833.8	8649.4	6420.0
37.5°	12524.6	12509.4	12285.3	11969.9	11619.4	11464.0	11028.2	10351.6	9420.5	9243.7	6810.1
40°	12704.4	12695.2	12529.2	12299.1	12076.5	12021.7	11747.4	10915.4	10092.5	9885.2	7279.5
42.5°	12590.1	12609.9	12500.2	12437.7	12396.5	12436.2	12462.1	11654.4	10825.4	10635.0	7788.4
45°	12239.6	12229.0	12213.7	12315.8	12547.4	12808.0	13169.1	12352.4	11622.5	11470.1	8471.1
47.5°	11613.3	11689.5	11727.6	12009.5	12515.4	13132.6	13982.9	13288.0	12779.0	12646.5	9511.9
50°	10737.1	10798.0	11023.5	11524.9	12279.2	13254.5	14778.3	14818.0	14708.3	14459.9	10642.6
52.5°	9368.7	9463.1	9927.9	10846.8	11794.6	13204.2	15259.9	16130.0	16274.8	16088.8	11756.5
55°	7837.2	7969.8	8460.5	9665.8	11127.2	12929.9	15592.1	16890.4	17467.9	17295.8	12829.3
57.5°	6337.7	6477.9	6982.3	8149.5	9963.0	12323.4	15810.0	17737.7	19092.4	18868.3	14164.2
60°	4749.8	4896.2	5328.9	6531.2	8305.0	11137.9	15662.2	18472.1	20715.3	20619.3	15500.7
62.5°	3064.5	3226.0	3602.4	4597.5	6383.4	9518.0	14871.3	18877.5	22120.3	22004.5	16475.9
65°	1866.8	1885.0	2092.3	2854.2	4368.9	7369.4	13062.5	18339.6	22860.9	22825.9	16773.1
67.5°	1206.9	1235.8	1330.3	1709.8	2619.5	5118.6	10444.5	16564.3	22428.1	22415.9	16158.9
70°	1019.5	1028.6	1071.3	1153.6	1522.3	3104.1	7334.3	13734.5	20783.9	20783.9	14682.3
72.5°	911.3	923.5	938.7	964.6	1086.5	1758.5	4376.5	10691.4	17945.0	18063.8	12497.1
75°	827.5	824.4	833.6	838.1	926.5	1149.0	2262.9	7907.3	13882.4	13644.6	9050.1
77.5°	708.6	713.2	708.6	728.4	818.3	874.7	1149.0	5306.1	8413.2	8105.4	4542.6
80°	582.1	589.8	597.4	609.6	699.5	664.4	690.3	2418.4	3111.7	3046.2	1403.4
82.5°	437.4	448.0	460.2	489.1	550.1	438.9	435.8	1033.2	1123.1	1028.6	516.6
85°	176.8	208.7	315.5	344.4	345.9	240.8	268.2	431.3	458.7	448.0	202.6
87.5°	41.1	48.8	102.1	153.9	141.7	89.9	99.0	140.2	160.0	147.8	68.6
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°	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4
2.5°	2662.2	2608.9	2517.4	2447.3	2397.0	2352.8	2325.4	2308.7	2302.6	2301.0	2302.6
5°	2752.1	2657.6	2512.8	2421.4	2371.1	2342.2	2325.4	2323.9	2325.4	2326.9	2322.4
7.5°	2875.5	2739.9	2550.9	2465.6	2427.5	2406.2	2398.6	2395.5	2397.0	2395.5	2395.5
10°	3040.1	2854.2	2625.6	2537.2	2505.2	2480.9	2468.6	2461.0	2454.9	2448.8	2445.8
12.5°	3221.4	2980.6	2706.4	2621.0	2575.3	2537.2	2509.8	2490.0	2476.2	2462.5	2459.5
15°	3424.1	3114.8	2796.2	2677.4	2611.9	2555.5	2508.3	2476.2	2451.9	2432.1	2430.5
17.5°	3617.6	3241.2	2857.2	2703.3	2607.3	2528.1	2465.6	2421.4	2390.9	2365.1	2362.0
20°	3824.9	3361.7	2884.7	2686.6	2561.6	2465.6	2383.3	2330.0	2294.9	2266.0	2261.4
22.5°	4033.6	3463.8	2881.6	2633.2	2482.3	2369.6	2282.8	2226.4	2185.2	2156.2	2145.6
25°	4233.3	3546.0	2843.5	2547.9	2372.6	2255.3	2167.0	2115.1	2078.6	2043.5	2043.5
27.5°	4413.1	3594.8	2771.9	2444.3	2259.9	2136.4	2066.3	2019.1	1985.6	1962.7	1949.0
30°	4589.9	3617.6	2674.3	2313.2	2141.0	2035.9	1979.5	1952.1	1921.6	1895.6	1892.6
32.5°	4748.3	3613.1	2552.4	2185.2	2028.3	1953.6	1930.7	1909.4	1877.4	1840.8	1831.7
35°	4902.2	3582.6	2407.7	2045.0	1933.8	1904.8	1910.9	1880.5	1822.5	1776.8	1769.2
37.5°	5069.8	3527.7	2249.2	1930.7	1854.5	1881.9	1897.2	1830.2	1735.7	1664.0	1647.3
40°	5263.4	3465.2	2084.7	1816.4	1792.1	1860.6	1860.6	1737.2	1607.7	1563.5	1551.3
42.5°	5490.5	3413.4	1947.5	1720.4	1740.2	1808.8	1801.2	1613.8	1560.4	1537.6	1531.5
45°	5850.1	3395.2	1805.8	1636.6	1697.5	1747.9	1685.4	1571.1	1540.6	1522.3	1516.2
47.5°	6418.5	3416.5	1680.8	1574.1	1648.8	1686.9	1555.8	1542.1	1520.8	1494.9	1491.8
50°	6945.8	3396.7	1592.5	1539.1	1606.2	1613.8	1502.5	1507.1	1494.9	1465.9	1459.8
52.5°	7377.0	3334.2	1536.0	1520.8	1569.6	1485.7	1452.2	1469.0	1464.4	1427.9	1421.8
55°	7850.9	3296.1	1508.6	1520.8	1545.2	1374.6	1405.0	1429.4	1423.3	1397.3	1395.9
57.5°	8425.4	3303.7	1488.8	1525.4	1520.8	1318.1	1357.7	1386.7	1385.2	1377.5	1377.5
60°	9013.6	3306.8	1458.3	1523.9	1491.8	1273.9	1309.0	1350.1	1353.2	1357.7	1357.7
62.5°	9208.6	3174.2	1398.9	1496.4	1427.9	1231.3	1263.3	1319.7	1316.6	1328.8	1330.3
65°	8844.5	2807.0	1310.5	1434.0	1345.6	1200.8	1228.2	1280.0	1263.3	1295.2	1301.3
67.5°	8050.5	2322.4	1173.4	1321.2	1254.1	1168.8	1205.4	1225.2	1194.7	1257.2	1258.7
70°	6957.9	1813.3	999.7	1161.2	1150.5	1135.3	1187.1	1156.6	1114.0	1190.2	1174.9
72.5°	5818.1	1385.2	798.5	949.4	1011.9	1085.0	1155.1	1068.2	1008.8	1031.7	1004.2
75°	4370.4	1024.0	641.5	743.6	842.7	1013.4	1126.1	961.5	870.1	848.8	842.7
77.5°	2227.9	669.0	480.0	556.2	632.4	915.9	1086.5	836.6	720.8	687.2	672.0
80°	795.4	416.0	338.3	384.0	426.7	787.9	949.4	691.9	559.2	553.2	559.2
82.5°	368.8	268.2	227.1	251.4	253.0	525.7	723.8	516.6	425.2	646.1	545.5
85°	158.5	134.1	128.0	125.0	115.8	234.7	406.8	277.3	432.8	193.6	178.3
87.5°	47.2	53.3	47.2	35.1	25.9	25.9	41.1	15.3	10.6	7.6	7.6
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)