

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: P652253

Luminaire Tested: **GALN-SA2B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9542.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

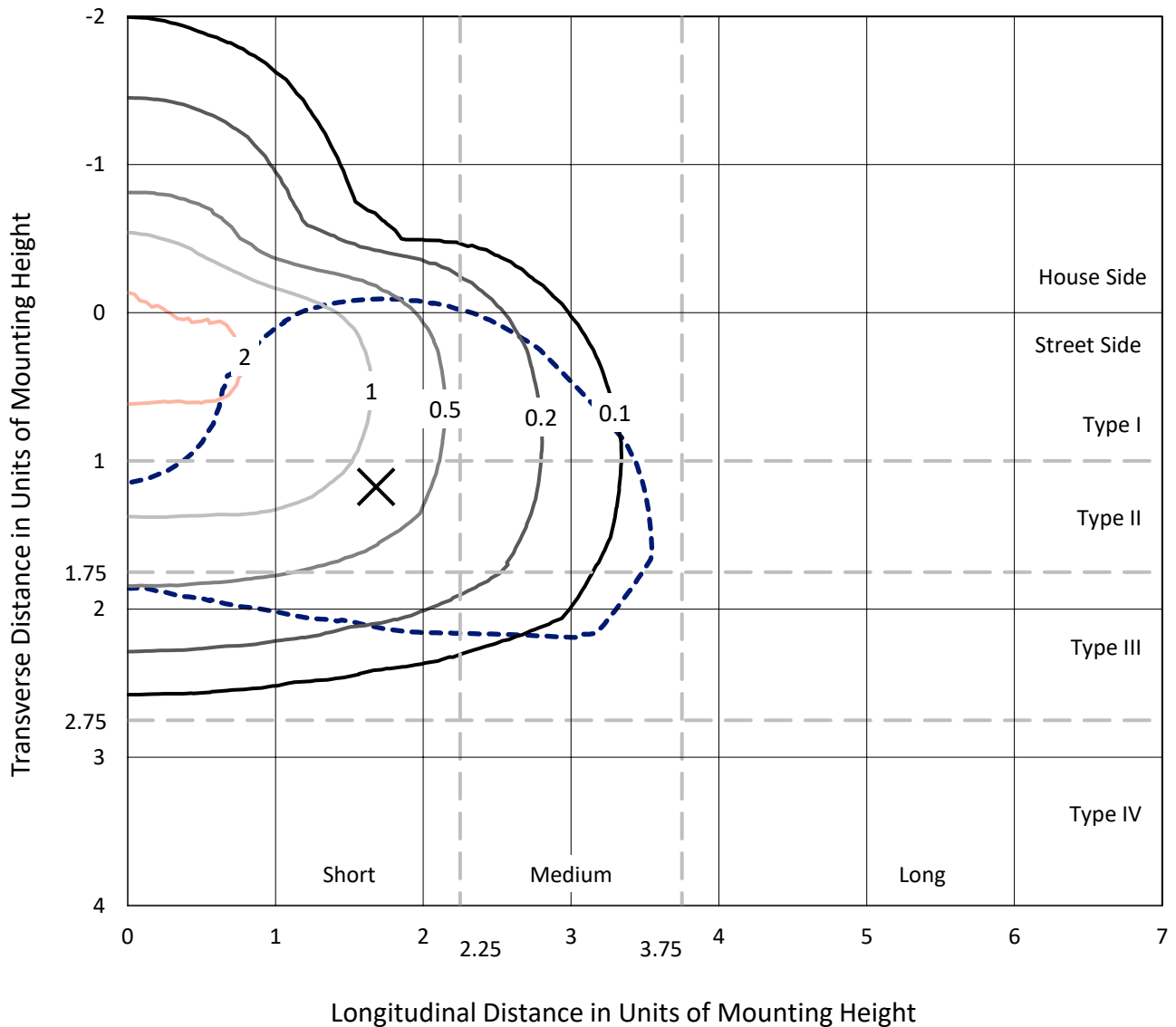
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

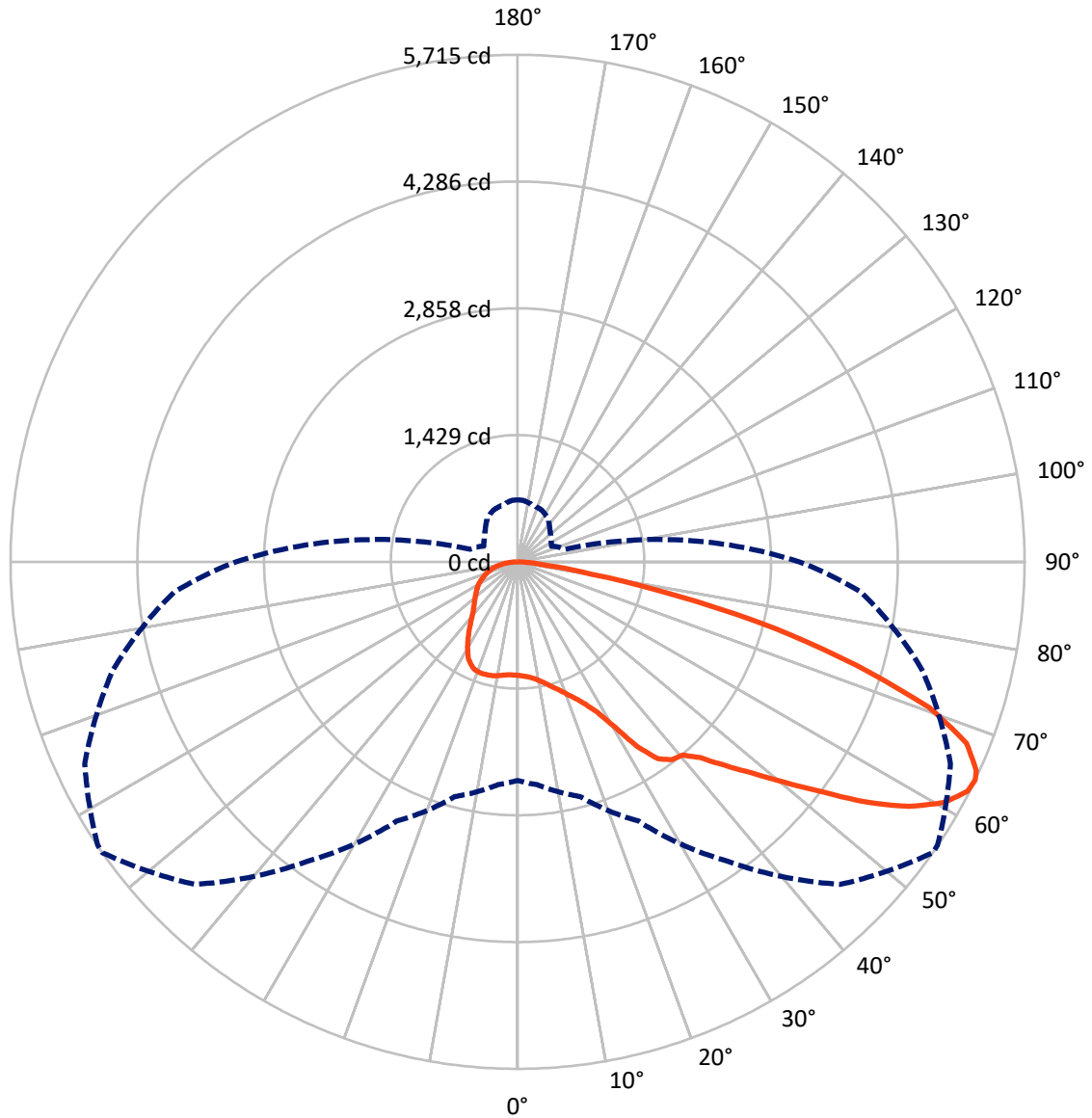
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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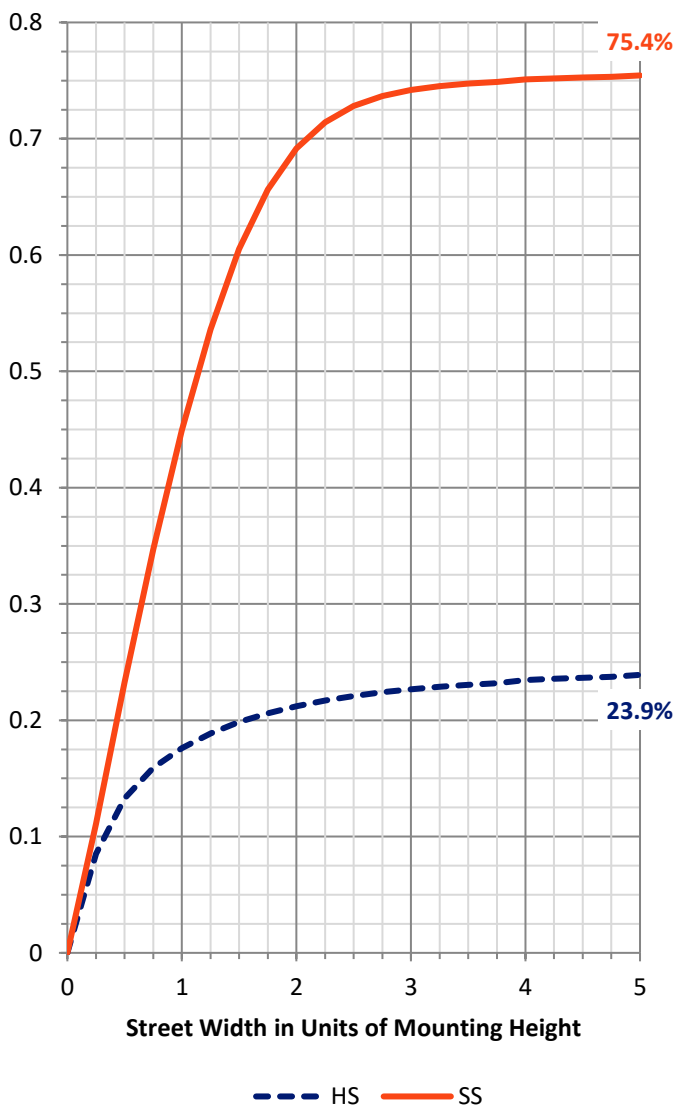
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2318.2	0.0	2318.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	7224.7	0.0	7224.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	9542.8	0.0	9542.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	393.0	4.1
20°-30°	699.6	7.3
30°-40°	1076.4	11.3
40°-50°	1525.9	16.0
50°-60°	2208.7	23.1
60°-70°	2285.8	24.0
70°-80°	1070.4	11.2
80°-90°	158.5	1.7
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°	9542.8	100.0
0°-180°	9542.8	100.0

Coefficient of Utilization

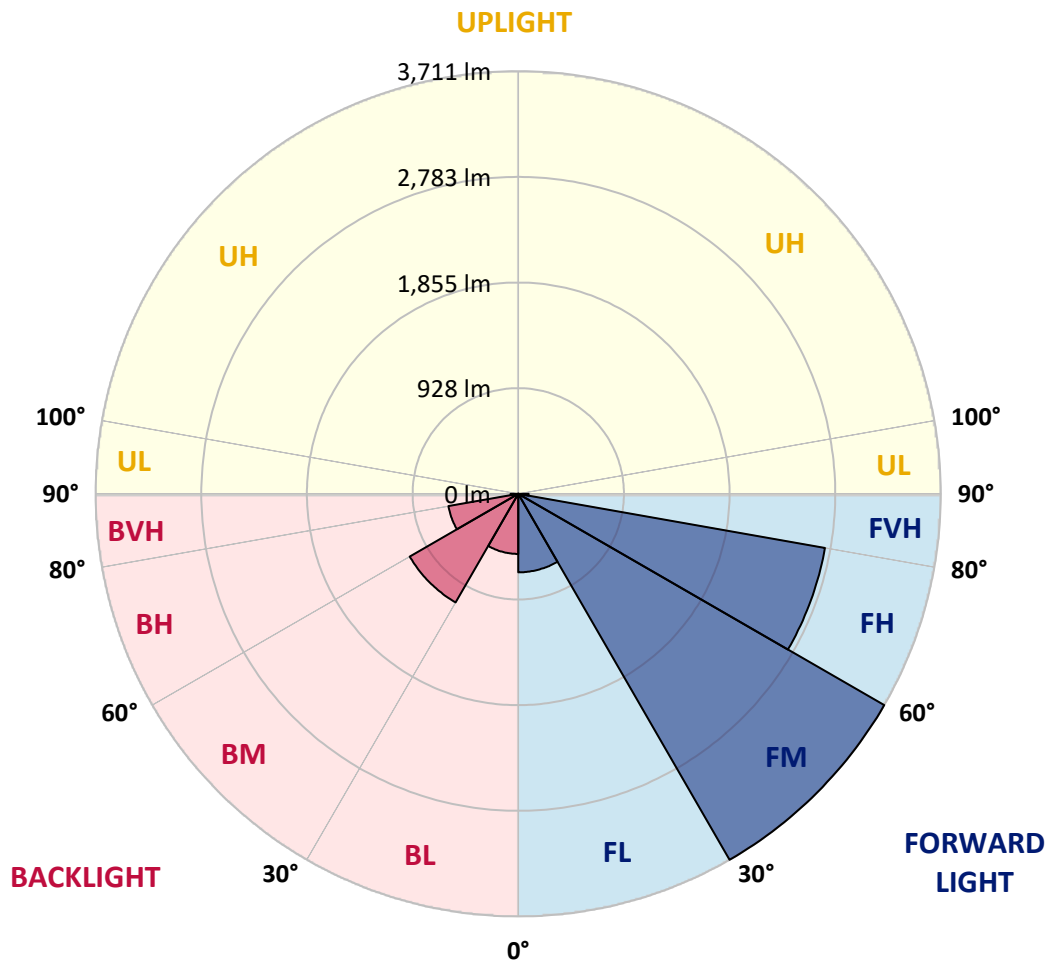


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.1	7.2			
FM (30°-60°)	3710.5	38.9			
FH (60°-80°)	2734.3	28.7			G2/5000
FVH (80°-90°)	90.7	1.0			G1/100
BL (0°-30°)	528.0	5.5	B2/1000		
BM (30°-60°)	1100.5	11.5	B2/2500		
BH (60°-80°)	621.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	67.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3
2.5°	1294.7	1294.2	1295.8	1294.2	1295.2	1291.5	1289.9	1291.0	1289.4	1286.7	1281.9
5°	1310.7	1310.1	1310.7	1308.5	1309.6	1307.5	1303.8	1304.8	1302.2	1296.3	1289.4
7.5°	1337.8	1335.7	1335.7	1335.2	1333.0	1329.8	1327.2	1326.1	1323.5	1316.0	1305.4
10°	1372.9	1372.9	1373.4	1369.2	1371.8	1366.0	1363.3	1362.8	1353.8	1344.2	1329.3
12.5°	1419.2	1421.9	1420.3	1418.1	1417.1	1414.9	1405.9	1408.0	1397.9	1381.4	1363.3
15°	1476.6	1480.9	1478.2	1477.1	1474.5	1466.5	1462.8	1461.2	1447.9	1424.0	1400.0
17.5°	1552.7	1547.4	1545.3	1542.6	1531.5	1525.6	1519.2	1518.2	1506.4	1478.2	1441.0
20°	1619.2	1626.7	1622.4	1619.8	1608.6	1597.4	1592.6	1591.0	1580.9	1550.0	1490.5
22.5°	1698.5	1700.1	1701.7	1695.3	1689.9	1681.4	1672.9	1670.2	1666.5	1634.7	1561.7
25°	1783.0	1789.4	1784.1	1777.7	1771.3	1770.8	1778.8	1777.7	1776.1	1745.2	1656.4
27.5°	1920.8	1926.6	1928.2	1921.3	1896.9	1899.0	1917.1	1922.9	1947.4	1896.4	1778.2
30°	1998.5	2004.4	2017.6	2043.7	2082.5	2116.5	2160.2	2173.5	2196.9	2100.6	1922.9
32.5°	2046.3	2048.5	2072.4	2120.8	2237.3	2364.5	2483.1	2487.8	2502.7	2367.7	2055.4
35°	2121.8	2123.4	2142.6	2195.9	2332.5	2544.2	2727.8	2733.6	2721.4	2450.6	2117.0
37.5°	2214.9	2219.2	2231.4	2275.6	2438.9	2694.7	2829.4	2825.1	2716.6	2516.6	2226.1
40°	2350.6	2350.6	2336.2	2395.8	2551.2	2780.9	2865.0	2857.5	2828.8	2707.5	2392.1
42.5°	2470.3	2468.2	2502.2	2542.6	2691.5	2913.9	3014.5	3026.7	3074.0	2947.5	2580.9
45°	2626.1	2635.7	2654.9	2728.3	2930.4	3141.1	3270.8	3282.6	3349.5	3229.9	2801.7
47.5°	2783.6	2786.8	2846.9	2944.8	3226.2	3449.0	3555.4	3574.6	3635.7	3560.2	3039.5
50°	2895.3	2925.6	3021.9	3176.2	3530.9	3824.6	3907.5	3930.4	4038.4	3919.8	3316.6
52.5°	3013.4	3043.2	3160.7	3395.9	3881.0	4208.6	4310.8	4326.2	4438.5	4283.6	3600.2
55°	3114.5	3142.1	3275.6	3590.6	4159.7	4600.7	4785.8	4767.7	4821.5	4563.9	3818.7
57.5°	3131.0	3153.3	3321.4	3715.0	4369.2	4936.8	5202.3	5212.9	5150.7	4773.5	3999.0
60°	3003.3	3049.0	3242.1	3701.7	4463.4	5170.9	5512.9	5520.4	5343.8	4881.0	4070.9
62.5°	2777.2	2772.4	3006.0	3487.9	4331.5	5224.1	5695.9	5687.9	5419.3	4829.4	4001.2
64°	2465.0	2522.4	2740.5	3225.1	4118.7	5142.2	5715.1	5710.8	5383.2	4722.0	3882.6
65°	2274.6	2271.4	2486.8	3010.2	3907.0	5018.8	5681.0	5675.2	5307.6	4625.7	3790.6
67.5°	1642.1	1649.5	1862.3	2322.9	3176.2	4536.4	5459.2	5437.4	5009.8	4306.5	3440.5
70°	994.7	998.9	1166.0	1541.0	2279.9	3667.1	4920.9	4922.0	4553.8	3829.9	2928.3
72.5°	523.9	535.1	602.2	875.1	1384.6	2573.0	3992.1	4086.8	3909.7	3268.7	2313.3
75°	291.5	293.1	340.4	431.4	706.4	1440.0	3000.6	3027.8	3095.3	2630.9	1710.7
77.5°	222.4	225.6	240.4	278.7	384.6	667.6	1816.1	1952.2	2181.5	1854.8	976.1
80°	180.3	183.5	196.3	219.2	255.8	316.5	843.6	917.0	1167.6	823.4	380.9
82.5°	140.4	138.3	154.8	169.7	186.2	187.2	346.3	383.0	475.6	354.2	164.9
85°	104.3	104.3	117.6	114.4	120.2	109.6	152.6	168.6	190.4	150.5	76.6
87.5°	41.5	45.8	77.1	69.1	53.7	43.1	56.3	59.5	65.9	59.0	31.9
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°	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3
2.5°	1282.5	1284.1	1280.3	1277.7	1276.6	1275.0	1273.4	1273.9	1276.1	1278.2	1277.7
5°	1288.8	1289.4	1283.0	1279.8	1277.7	1275.5	1275.5	1277.1	1281.4	1284.6	1284.6
7.5°	1304.8	1304.8	1295.8	1289.9	1286.7	1283.0	1281.9	1282.5	1285.6	1289.9	1290.4
10°	1329.8	1327.7	1316.0	1306.9	1301.1	1292.0	1284.1	1279.8	1281.4	1284.1	1284.1
12.5°	1360.1	1354.3	1339.4	1327.2	1312.8	1295.8	1279.3	1270.8	1270.2	1272.9	1271.8
15°	1392.6	1386.2	1365.4	1343.2	1318.1	1293.1	1273.4	1261.2	1251.7	1249.0	1254.9
17.5°	1430.4	1417.1	1388.3	1357.5	1320.3	1287.8	1257.0	1232.0	1214.9	1210.1	1211.7
20°	1476.1	1458.5	1419.7	1371.3	1318.7	1268.6	1220.8	1187.2	1159.6	1151.1	1152.2
22.5°	1539.5	1509.1	1452.2	1378.2	1305.4	1232.5	1166.0	1122.4	1088.8	1075.6	1083.5
25°	1611.2	1578.2	1483.0	1376.6	1270.8	1174.5	1101.1	1044.2	1013.8	994.1	998.4
27.5°	1710.2	1651.6	1516.0	1362.3	1221.3	1103.7	1018.6	965.0	937.3	927.1	931.9
30°	1836.7	1746.8	1551.6	1323.5	1143.1	1014.4	935.7	900.5	884.1	871.3	875.6
32.5°	1928.2	1813.9	1559.6	1258.1	1058.6	933.0	879.3	853.2	835.1	822.9	825.5
35°	1993.7	1870.8	1555.9	1177.7	970.3	866.0	834.6	813.3	784.1	757.5	752.7
37.5°	2081.5	1942.1	1528.8	1089.9	883.0	820.7	798.4	759.1	717.0	681.4	679.8
40°	2216.0	2025.6	1470.8	986.7	808.5	787.3	760.1	709.0	663.9	635.1	633.0
42.5°	2354.9	2102.8	1392.0	878.3	747.4	752.2	719.1	668.7	641.0	622.3	620.2
45°	2524.5	2186.3	1306.9	784.1	702.2	719.1	683.6	654.3	637.8	625.5	622.3
47.5°	2708.1	2271.9	1211.2	699.5	663.9	688.9	668.7	655.3	646.3	637.8	634.0
50°	2905.9	2367.7	1121.3	631.4	629.2	657.5	667.1	662.3	656.9	654.3	651.1
52.5°	3123.0	2465.5	1045.8	583.6	599.0	635.1	667.6	671.3	671.3	669.7	667.6
55°	3269.8	2533.6	969.2	544.7	568.1	617.0	666.5	680.9	686.2	684.1	682.0
57.5°	3378.3	2570.9	872.9	511.2	542.0	599.5	660.7	682.0	687.3	690.0	688.9
60°	3400.7	2536.3	746.8	476.1	513.9	574.0	639.4	666.0	672.9	689.4	691.0
62.5°	3300.1	2429.9	621.3	441.5	479.3	535.1	610.7	647.9	661.7	687.3	690.0
64°	3176.7	2310.7	551.6	419.7	456.9	513.3	596.3	643.1	661.2	695.3	697.4
65°	3086.3	2224.0	508.0	405.9	442.5	499.0	588.3	644.7	666.0	707.4	710.6
67.5°	2753.3	1925.6	420.2	373.4	408.6	474.5	589.9	658.0	664.9	712.2	711.7
70°	2278.3	1533.1	352.1	343.6	375.5	454.8	583.6	636.7	637.2	668.7	661.2
72.5°	1705.9	1133.0	305.4	312.8	338.8	408.0	551.1	608.0	599.0	603.2	595.8
75°	1171.8	749.5	262.8	279.8	300.6	360.6	505.4	552.1	537.8	532.4	527.1
77.5°	625.5	414.4	218.7	247.3	261.2	311.7	440.9	486.2	471.3	450.5	443.6
80°	253.2	195.2	176.1	204.8	212.8	251.0	367.0	395.2	384.1	347.9	336.1
82.5°	127.2	117.0	138.3	161.1	161.7	179.3	272.9	299.5	274.5	230.3	220.3
85°	66.5	68.6	95.2	113.3	100.0	96.8	163.8	181.4	166.5	144.7	130.4
87.5°	24.0	27.7	50.0	49.5	35.1	18.6	36.2	17.6	9.6	5.9	7.5
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)