

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: P651310

Luminaire Tested: **GALN-SA3D-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19532.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

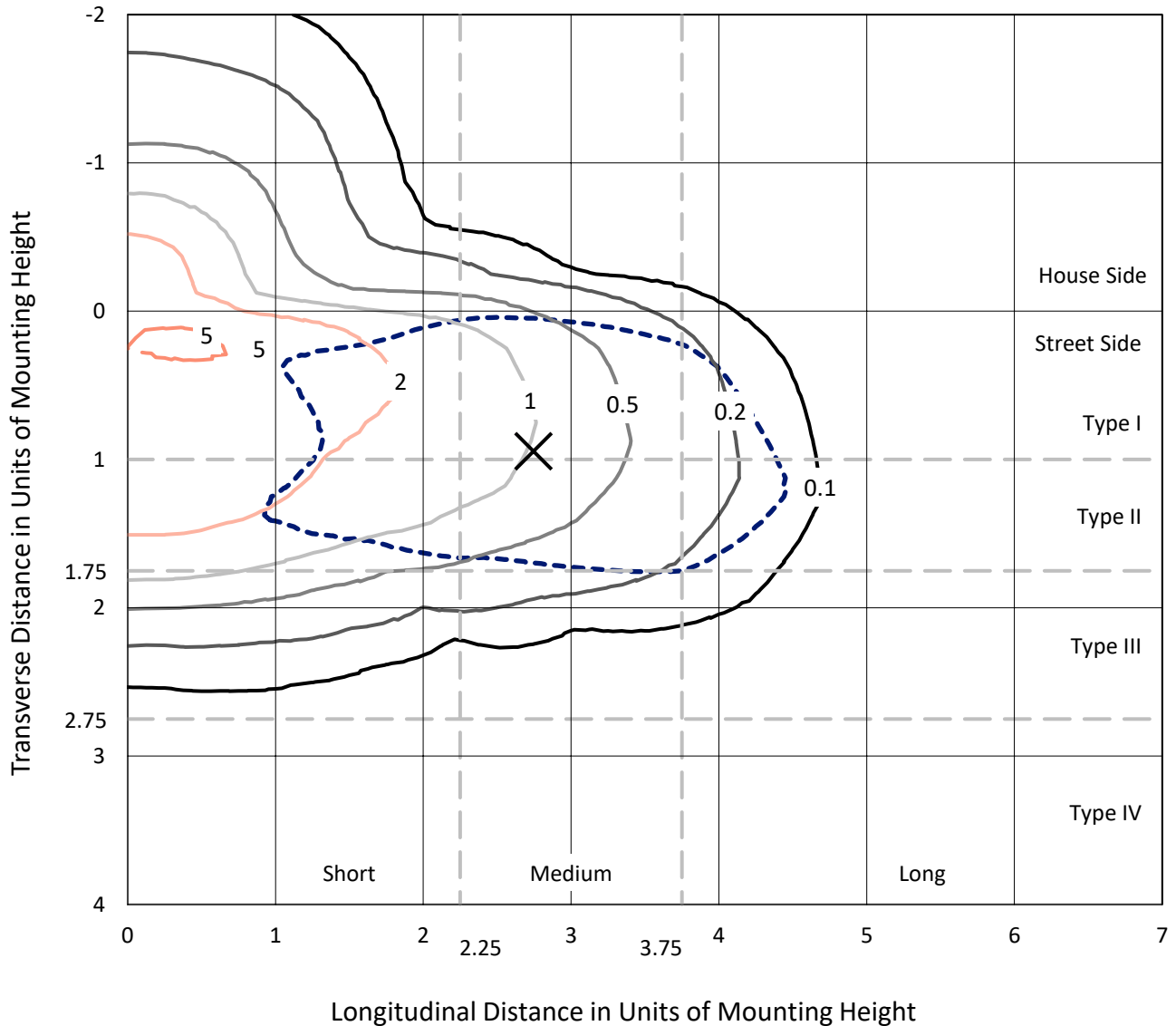
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651310
 CATALOG NUMBER: GALN-SA3D-840-U-T2

Iso-Footcandle Lines of Horizontal Illumination

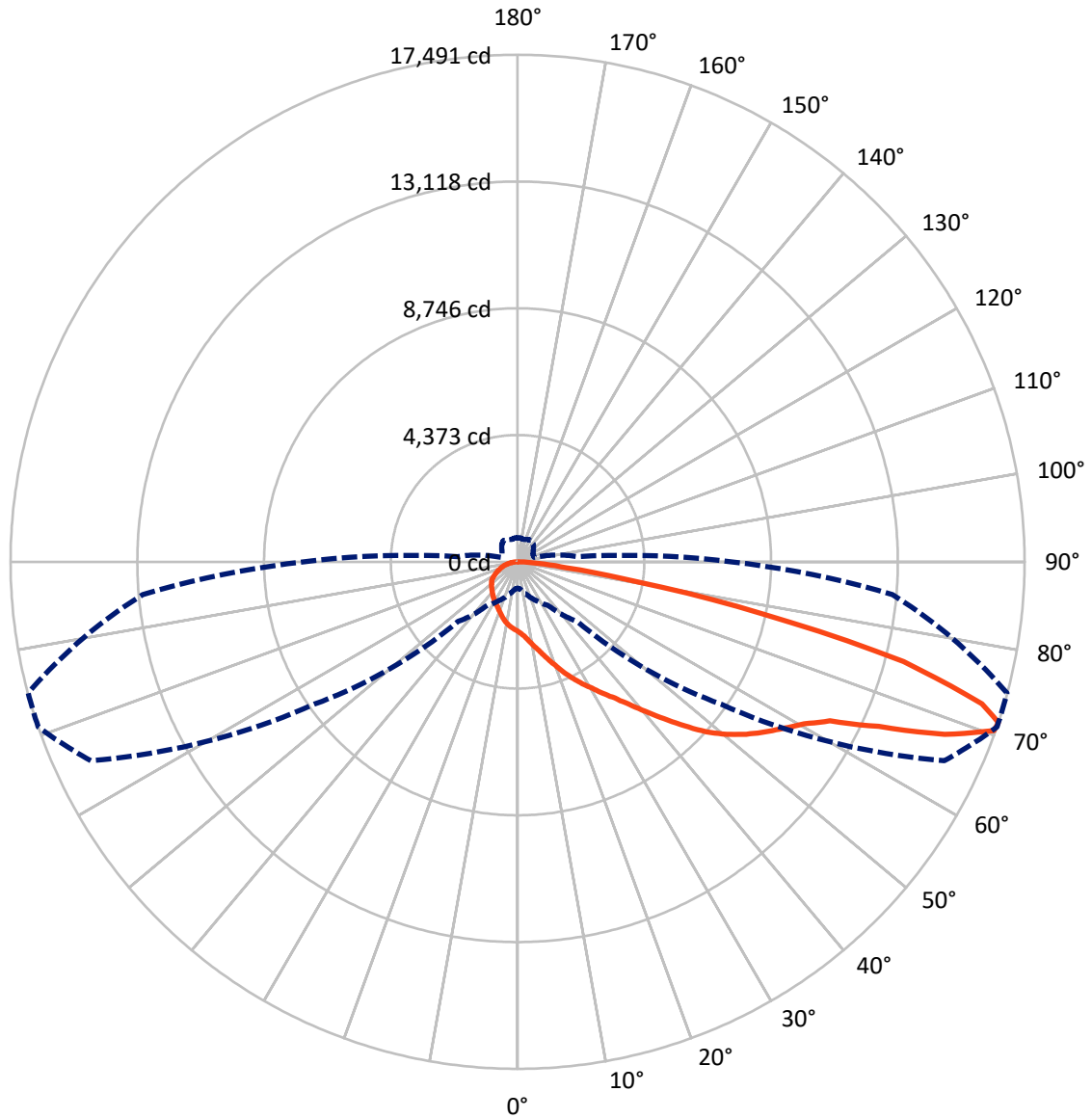
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P651310
CATALOG NUMBER: GALN-SA3D-840-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P651310
 CATALOG NUMBER: GALN-SA3D-840-U-T2

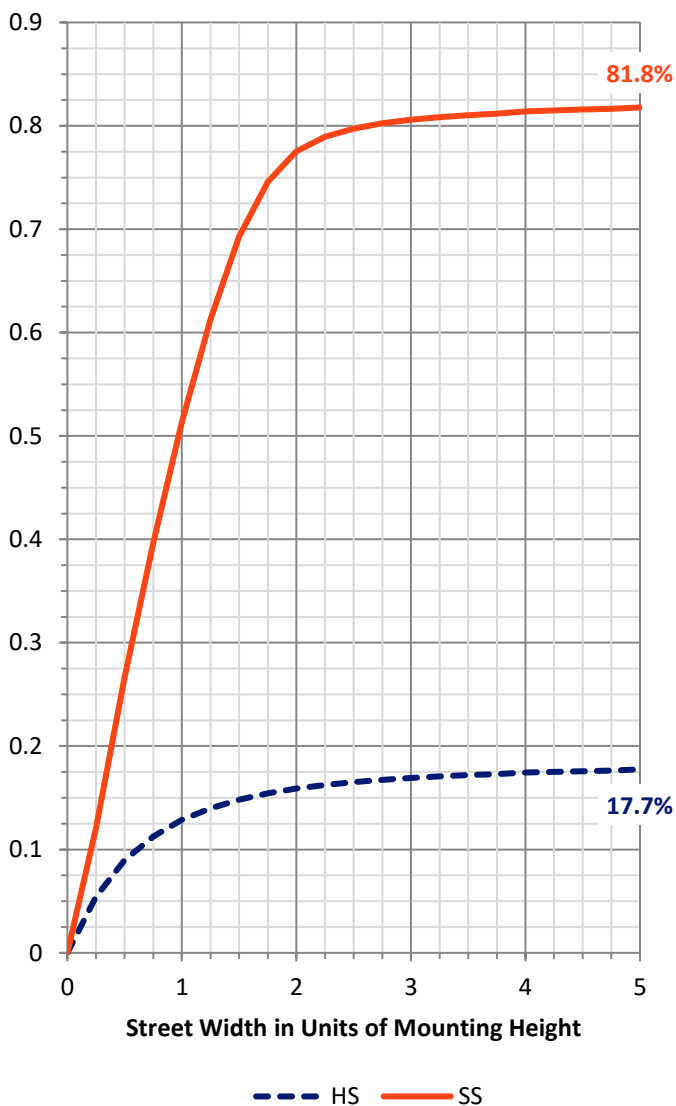
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3512.8	0.0	3512.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	16019.4	0.0	16019.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	19532.2	0.0	19532.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	1.2
10°-20°	782.0	4.0
20°-30°	1366.6	7.0
30°-40°	2032.6	10.4
40°-50°	2994.8	15.3
50°-60°	4192.8	21.5
60°-70°	4689.5	24.0
70°-80°	2864.6	14.7
80°-90°	368.5	1.9
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°	19532.2	100.0
0°-180°	19532.2	100.0

Coefficient of Utilization

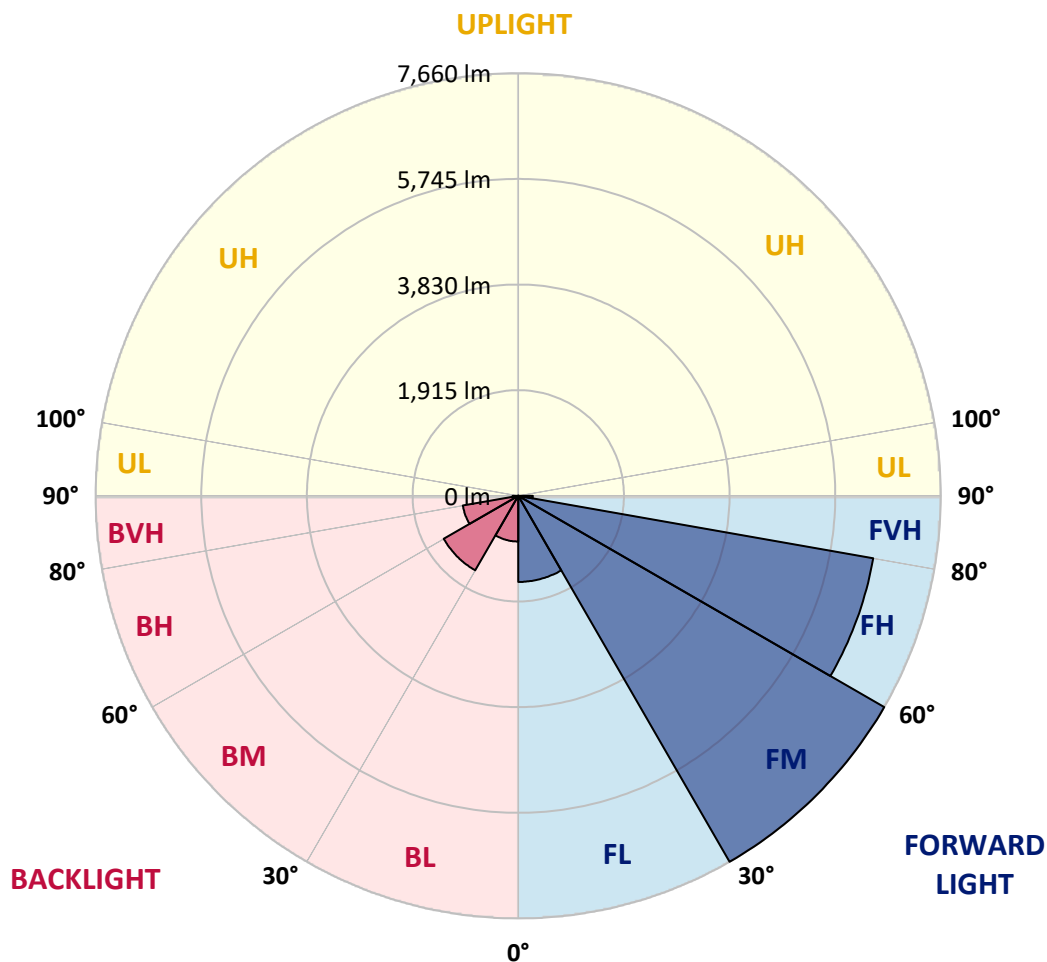


REPORT NUMBER: P651310
 CATALOG NUMBER: GALN-SA3D-840-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.6	8.0			
FM (30°-60°)	7660.1	39.2			
FH (60°-80°)	6533.5	33.4			G3/7500
FVH (80°-90°)	265.1	1.4			G3/500
BL (0°-30°)	828.7	4.2	B2/1000		
BM (30°-60°)	1560.2	8.0	B2/2500		
BH (60°-80°)	1020.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	103.4	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 Medium





REPORT NUMBER: P651310

CATALOG NUMBER: GALN-SA3D-840-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2661.3	2648.4	2649.5	2631.2	2607.6	2581.9	2545.4	2513.2	2487.3	2472.4	2428.3
5°	2949.0	2936.1	2920.0	2880.3	2863.1	2799.8	2719.3	2646.3	2590.4	2559.3	2471.3
7.5°	3181.9	3178.7	3174.4	3151.9	3107.8	3019.9	2951.2	2824.5	2741.8	2682.8	2532.4
10°	3325.8	3331.2	3334.4	3338.7	3320.4	3274.3	3179.8	3019.9	2914.7	2839.5	2611.9
12.5°	3398.8	3404.2	3422.4	3462.1	3486.9	3481.5	3404.2	3247.4	3102.5	3003.7	2696.8
15°	3443.9	3452.5	3484.7	3537.2	3619.9	3672.6	3635.0	3490.1	3331.2	3214.1	2797.6
17.5°	3493.3	3502.9	3538.3	3613.5	3721.9	3835.7	3876.5	3752.0	3579.1	3439.6	2910.4
20°	3521.2	3534.1	3584.5	3683.3	3810.0	3975.3	4110.6	4045.0	3856.2	3701.6	3040.2
22.5°	3566.3	3577.0	3619.9	3725.1	3876.5	4083.7	4344.6	4330.6	4164.2	3964.6	3183.0
25°	3688.6	3705.9	3727.3	3790.6	3936.6	4194.3	4538.9	4635.5	4462.7	4239.4	3314.0
27.5°	3919.5	3933.4	3932.3	3940.9	4023.6	4289.9	4707.4	4937.2	4759.0	4517.4	3440.7
30°	4182.5	4187.8	4192.1	4172.8	4191.0	4387.5	4862.0	5235.6	5057.4	4803.0	3551.2
32.5°	4502.4	4513.1	4476.6	4427.3	4412.2	4532.5	4989.7	5534.0	5410.6	5092.8	3660.7
35°	4880.2	4908.2	4834.2	4747.2	4686.0	4740.7	5161.6	5838.9	5772.4	5463.2	3805.7
37.5°	5311.8	5346.2	5277.4	5106.8	5019.8	5034.9	5385.9	6215.7	6229.7	5885.1	4021.4
40°	5665.1	5710.1	5712.2	5470.7	5338.7	5355.8	5670.4	6621.5	6781.5	6406.8	4275.9
42.5°	5898.0	5942.0	5988.2	5846.5	5708.0	5805.7	6002.1	7061.7	7402.0	7040.2	4631.2
45°	6153.5	6193.2	6218.9	6154.5	6077.2	6330.6	6402.5	7529.7	8063.3	7747.7	5019.8
47.5°	6449.8	6493.8	6518.5	6457.3	6428.3	6791.2	6834.1	7966.7	8769.7	8434.7	5449.3
50°	6844.8	6878.1	6865.3	6826.6	6820.2	7144.4	7248.5	8375.7	9352.6	9174.4	5894.7
52.5°	7336.5	7376.2	7390.2	7335.5	7310.7	7396.6	7582.4	8748.2	9882.9	9809.9	6370.3
55°	7633.8	7697.3	7909.8	7995.6	8054.7	7723.0	7942.0	9159.3	10358.5	10479.8	6881.3
57.5°	7252.8	7334.4	7809.9	8239.4	8794.3	8538.8	8451.9	9588.7	10834.1	11129.3	7493.2
60°	6323.1	6341.3	6954.3	7745.5	8862.0	9587.7	9515.7	10271.6	11349.4	11784.2	8299.5
62.5°	4386.5	4425.1	5149.7	6412.2	8026.8	9965.6	11325.7	11450.3	12087.9	12764.3	9481.4
65°	2262.0	2211.5	2871.7	4030.1	6051.5	9068.1	12792.2	13617.7	13689.6	14297.3	11145.4
67.5°	1392.4	1414.9	1724.0	2353.2	3578.1	6590.4	12638.7	16266.1	15887.2	16179.2	12690.2
70°	1045.6	1073.5	1286.1	1610.3	2181.4	3768.1	10164.2	16908.1	17437.4	17362.2	13160.4
71°	909.3	938.3	1159.4	1465.4	1832.5	2908.2	8563.6	16236.1	17491.0	17478.2	12983.3
72.5°	775.1	793.3	966.1	1241.0	1544.8	2038.7	6433.6	14561.4	16745.0	17173.3	12351.0
75°	608.7	622.7	700.0	946.9	1216.3	1251.7	3452.5	10916.8	13753.0	14568.9	10282.3
77.5°	495.9	505.6	545.4	703.2	938.3	886.8	1811.0	7105.7	8616.1	9437.4	6056.9
80°	394.0	404.7	428.3	476.7	703.2	632.3	864.2	3600.7	4162.1	4153.5	2417.6
82.5°	306.0	309.2	337.1	349.9	481.0	448.8	468.1	1524.4	1688.6	1744.5	872.8
85°	193.3	202.9	298.5	268.4	287.7	263.0	230.8	605.4	746.1	735.4	348.9
87.5°	59.0	62.2	100.9	113.8	127.7	114.9	84.8	178.2	217.9	236.2	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651310
 CATALOG NUMBER: GALN-SA3D-840-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2411.1	2399.4	2357.5	2323.1	2290.9	2255.5	2225.5	2216.9	2209.3	2206.1	2205.0
5°	2433.7	2398.3	2315.6	2248.0	2194.3	2144.9	2113.8	2099.8	2085.8	2085.8	2090.1
7.5°	2465.9	2401.5	2273.7	2172.8	2105.2	2059.0	2036.5	2034.4	2037.6	2040.8	2041.9
10°	2501.3	2399.4	2212.6	2086.9	2026.8	2005.4	2006.5	2024.7	2041.9	2054.7	2056.9
12.5°	2535.7	2386.4	2140.6	2006.5	1967.8	1972.1	2002.2	2043.0	2076.2	2094.4	2095.5
15°	2574.3	2366.1	2053.6	1930.2	1917.3	1950.6	2006.5	2068.7	2119.2	2149.2	2152.5
17.5°	2606.5	2331.7	1962.4	1856.2	1872.2	1933.5	2010.7	2091.2	2152.5	2190.0	2196.4
20°	2643.0	2287.7	1867.9	1785.3	1831.4	1914.1	2002.2	2089.1	2152.5	2189.0	2197.5
22.5°	2672.0	2225.5	1777.8	1727.3	1794.9	1890.5	1973.2	2043.0	2094.4	2113.8	2126.6
25°	2683.8	2147.1	1692.9	1680.1	1765.9	1851.9	1907.6	1947.4	1963.5	1961.4	1966.7
27.5°	2677.4	2056.9	1619.9	1642.5	1729.4	1791.8	1819.7	1816.4	1787.5	1760.5	1773.5
30°	2650.6	1949.5	1558.8	1603.9	1682.3	1716.6	1712.3	1670.4	1615.6	1565.2	1568.5
32.5°	2602.2	1833.6	1501.9	1559.8	1615.6	1630.7	1601.7	1546.9	1468.6	1403.1	1393.5
35°	2561.4	1723.0	1451.4	1509.4	1549.1	1541.6	1513.7	1442.8	1372.0	1314.0	1304.3
37.5°	2555.0	1628.5	1403.1	1452.5	1475.0	1464.3	1430.0	1369.8	1344.1	1300.0	1294.7
40°	2589.4	1562.0	1353.8	1392.4	1403.1	1394.5	1357.0	1322.6	1346.2	1335.5	1335.5
42.5°	2682.8	1526.6	1309.7	1332.2	1340.8	1347.3	1320.5	1291.4	1320.5	1271.1	1254.9
45°	2830.9	1527.7	1270.0	1273.2	1299.0	1321.5	1303.3	1260.3	1245.3	1146.5	1127.2
47.5°	3048.8	1564.2	1237.8	1217.3	1263.5	1301.1	1275.4	1213.1	1146.5	1081.0	1069.2
50°	3303.3	1629.6	1208.8	1159.4	1216.3	1275.4	1256.0	1183.0	1114.3	1074.6	1067.1
52.5°	3585.6	1712.3	1173.4	1095.0	1158.3	1263.5	1260.3	1178.7	1084.3	1057.4	1051.0
55°	3934.5	1793.9	1129.4	1019.9	1106.8	1253.8	1248.5	1143.3	1077.8	1058.5	1056.4
57.5°	4340.3	1911.9	1066.1	943.6	1047.8	1214.2	1202.4	1121.8	1056.4	1042.4	1041.3
60°	4994.0	2095.5	975.8	873.9	987.7	1144.3	1159.4	1085.3	1022.0	1018.8	1017.7
62.5°	5853.9	2353.2	882.5	801.9	917.9	1054.2	1097.2	1035.9	985.5	1001.6	1003.7
65°	7041.3	2570.0	785.8	740.8	840.6	967.2	1038.1	989.8	944.7	975.8	975.8
67.5°	7815.3	2574.3	697.8	677.4	762.2	894.2	975.8	935.0	892.1	944.7	946.9
70°	7654.3	2255.5	624.8	610.8	686.0	815.9	907.1	874.9	825.5	872.8	855.6
71°	7394.5	2078.4	595.8	585.1	655.9	778.3	874.9	848.1	798.7	829.8	820.1
72.5°	6980.1	1804.6	548.6	550.7	610.8	731.1	829.8	801.9	752.5	769.7	766.5
75°	5900.1	1575.9	469.1	478.8	525.0	650.6	739.7	718.2	667.8	667.8	664.5
77.5°	3688.6	1101.5	389.7	395.0	445.5	557.2	635.5	617.3	568.9	552.9	548.6
80°	1376.3	568.9	304.9	311.3	342.5	439.1	526.0	508.9	459.4	441.2	424.0
82.5°	520.7	285.5	224.4	219.0	252.3	335.0	412.3	391.8	353.2	309.2	296.3
85°	196.5	141.7	137.4	133.1	148.2	198.6	255.5	251.2	210.4	179.3	176.0
87.5°	51.6	46.2	53.7	39.7	41.9	37.6	38.7	16.1	7.5	3.2	2.2
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)