

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: P650770

Luminaire Tested: **GALN-SA2C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11864 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

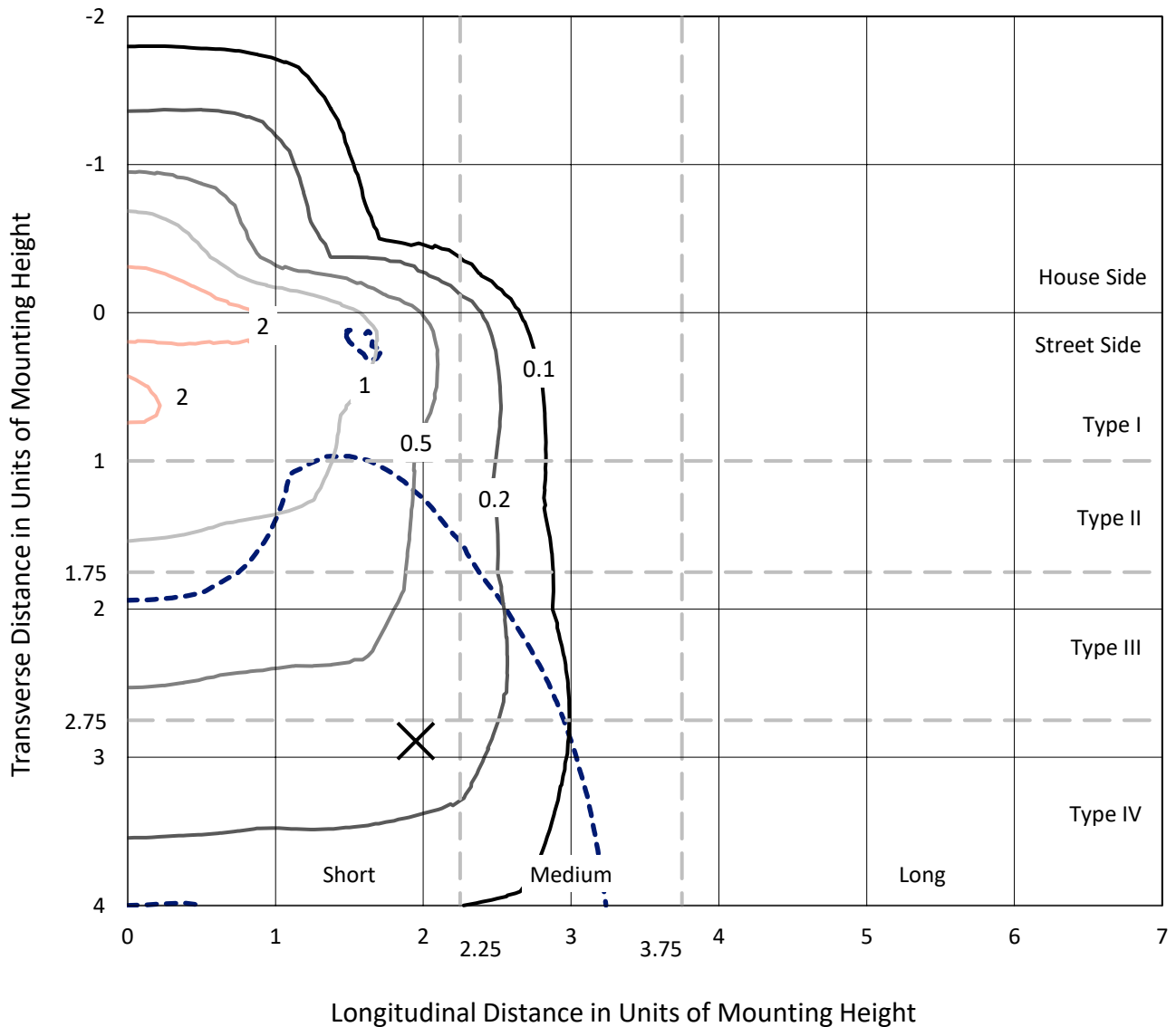
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

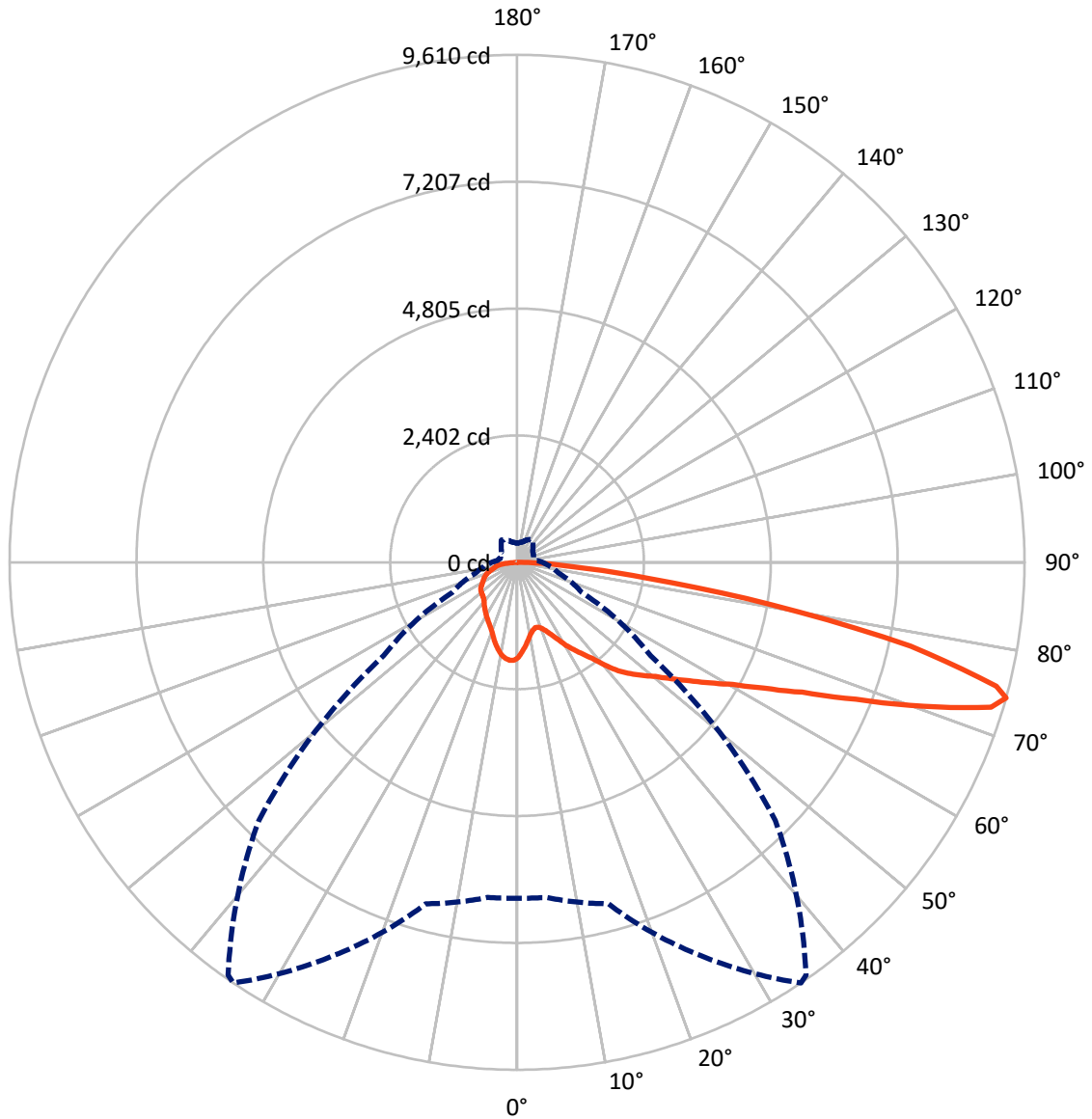
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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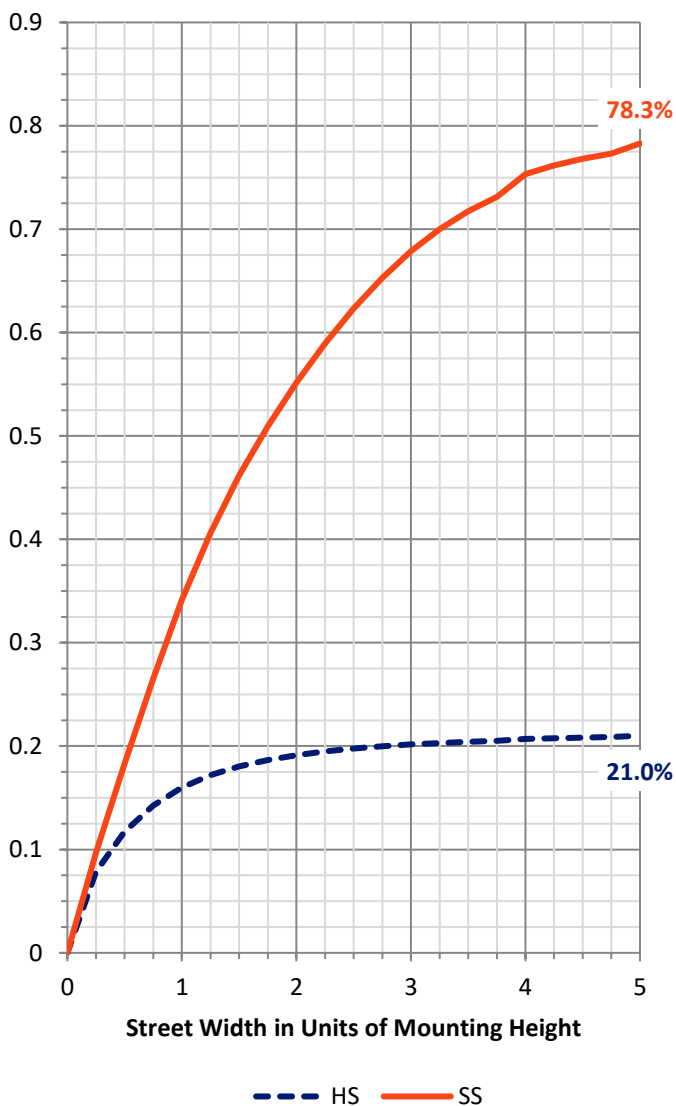
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.7	0.0	2524.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9339.2	0.0	9339.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	11864.0	0.0	11864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	1.4
10°-20°	451.0	3.8
20°-30°	743.5	6.3
30°-40°	1113.7	9.4
40°-50°	1619.0	13.6
50°-60°	2261.4	19.1
60°-70°	2831.2	23.9
70°-80°	2341.1	19.7
80°-90°	338.3	2.9
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°	11864.0	100.0
0°-180°	11864.0	100.0

Coefficient of Utilization



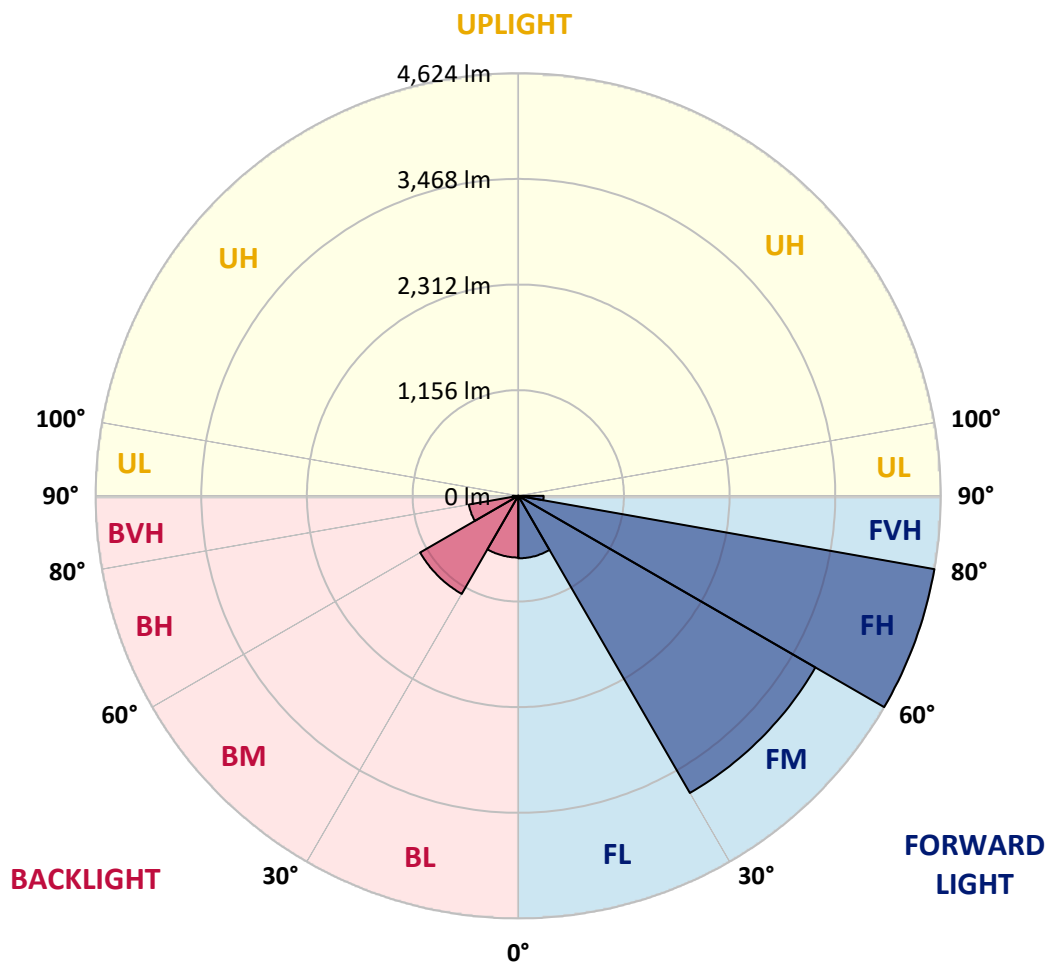
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.9	5.8			
FM (30°-60°)	3754.3	31.6			
FH (60°-80°)	4623.9	39.0			G2/5000
FVH (80°-90°)	277.1	2.3			G3/500
BL (0°-30°)	675.3	5.7	B2/1000		
BM (30°-60°)	1239.9	10.5	B2/2500		
BH (60°-80°)	548.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	61.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4
2.5°	1674.0	1682.6	1687.2	1703.6	1707.6	1712.8	1726.6	1745.0	1768.7	1789.7	1808.2
5°	1534.7	1547.9	1555.7	1570.1	1598.4	1601.1	1637.8	1680.0	1727.9	1772.7	1809.4
7.5°	1402.6	1417.0	1423.6	1449.9	1487.4	1493.3	1547.2	1613.5	1693.8	1761.5	1818.0
10°	1303.3	1310.5	1325.0	1344.8	1389.4	1393.4	1463.7	1552.4	1656.3	1756.2	1832.5
12.5°	1249.5	1253.4	1256.7	1277.7	1321.7	1327.7	1401.3	1501.9	1626.7	1760.1	1856.1
15°	1257.3	1258.6	1244.2	1248.1	1283.6	1292.2	1365.1	1468.3	1608.3	1770.0	1891.6
17.5°	1323.7	1319.1	1283.6	1265.2	1290.2	1294.1	1357.9	1455.2	1599.8	1788.4	1928.4
20°	1428.2	1421.6	1360.5	1319.8	1334.2	1337.5	1381.5	1465.0	1608.3	1818.7	1985.6
22.5°	1558.4	1555.7	1463.1	1413.7	1413.1	1413.1	1436.1	1500.5	1634.0	1860.0	2045.4
25°	1740.4	1726.6	1605.6	1541.9	1524.1	1522.9	1520.2	1559.0	1666.8	1904.1	2116.4
27.5°	1927.1	1903.4	1795.6	1697.7	1659.5	1655.0	1637.8	1641.8	1708.8	1954.0	2197.2
30°	2094.7	2079.5	1978.4	1869.9	1824.5	1814.0	1766.7	1745.0	1779.2	2044.1	2326.0
32.5°	2222.8	2213.6	2134.8	2036.1	1969.1	1967.2	1898.1	1880.4	1889.0	2153.1	2473.2
35°	2326.7	2330.0	2289.9	2204.4	2127.6	2116.4	2070.4	2048.0	2023.0	2310.9	2658.6
37.5°	2468.7	2475.9	2473.2	2399.6	2305.7	2308.3	2297.8	2260.9	2194.6	2487.1	2864.3
40°	2625.1	2630.3	2629.6	2601.4	2552.1	2554.8	2550.8	2508.7	2409.5	2711.2	3093.0
42.5°	2841.3	2816.3	2751.2	2779.5	2808.4	2821.0	2847.9	2807.8	2671.8	2950.4	3308.0
45°	3083.2	3035.8	2888.7	2901.8	3008.9	3032.6	3181.1	3125.9	2956.4	3225.2	3561.0
47.5°	3235.7	3189.0	3064.8	3062.2	3204.1	3227.1	3490.1	3469.6	3215.3	3521.6	3869.9
50°	3371.7	3365.2	3225.2	3258.7	3397.4	3431.5	3826.6	3807.5	3473.6	3871.2	4206.4
52.5°	3573.5	3520.3	3408.5	3477.5	3660.9	3705.6	4160.4	4104.6	3710.8	4180.1	4533.1
55°	3664.2	3651.7	3645.1	3704.9	3956.7	3988.9	4485.1	4357.0	3913.3	4441.7	4781.5
57.5°	3906.7	3883.7	3948.8	3989.5	4305.0	4354.3	4824.2	4620.5	4090.8	4649.4	4902.4
60°	4220.9	4208.4	4268.2	4341.8	4694.1	4769.1	5210.8	4845.3	4233.3	4753.9	4836.1
62.5°	4690.2	4688.8	4677.7	4835.4	5245.6	5314.5	5654.4	5064.2	4255.7	4675.7	4493.0
65°	5363.2	5339.5	5242.3	5414.4	5931.7	6012.6	6116.4	5186.4	4121.0	4274.1	3783.2
67.5°	6067.1	6065.8	5986.9	6210.4	6917.0	7000.4	6694.1	5159.5	3747.0	3462.4	2686.8
70°	6650.8	6622.5	6723.0	7318.6	8175.6	8272.2	7199.5	4842.0	2984.6	2286.6	1596.5
72.5°	6790.7	6792.1	7001.1	8173.0	9384.3	9399.4	7381.6	3924.4	1997.4	1261.2	798.5
74°	6359.6	6370.7	6694.8	8215.7	9609.8	9541.4	6916.3	3084.5	1350.6	823.5	575.7
75°	5804.9	5734.5	6203.2	7931.1	9375.7	9302.1	6371.4	2475.2	1030.6	657.9	504.1
77.5°	3103.5	3175.2	3898.2	5918.6	7616.9	7532.2	4320.1	1187.0	556.7	458.1	362.8
80°	1104.8	1218.5	1712.8	3097.0	4883.4	4909.7	2061.8	544.2	391.7	337.8	256.3
82.5°	450.9	463.4	735.5	1374.4	2479.9	2503.5	841.9	323.4	280.0	232.7	153.1
85°	176.1	181.4	325.4	617.8	1058.1	1127.2	291.2	170.9	172.2	133.4	78.2
87.5°	59.1	67.0	133.4	205.7	359.5	352.3	84.8	50.6	61.8	57.9	24.3
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°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4
2.5°	1817.3	1829.8	1838.3	1847.5	1856.1	1858.7	1856.8	1862.6	1863.3	1864.0	1864.7
5°	1827.8	1844.9	1861.4	1870.6	1874.5	1871.2	1860.0	1854.2	1848.9	1844.9	1846.2
7.5°	1842.3	1866.6	1881.7	1885.7	1875.2	1860.0	1832.5	1810.8	1797.0	1787.7	1787.0
10°	1864.7	1888.3	1900.7	1889.6	1860.7	1823.9	1780.5	1739.8	1708.8	1699.7	1699.0
12.5°	1892.9	1919.8	1919.2	1886.4	1835.7	1770.0	1699.7	1652.3	1610.3	1589.2	1597.8
15°	1929.7	1950.1	1931.0	1871.9	1791.7	1701.6	1614.9	1550.5	1503.1	1480.8	1482.1
17.5°	1972.4	1990.1	1939.6	1846.2	1729.9	1614.2	1513.6	1452.6	1415.1	1398.7	1397.3
20°	2025.6	2030.9	1939.6	1801.5	1650.4	1512.4	1416.4	1373.7	1352.7	1344.1	1346.7
22.5°	2082.8	2072.3	1929.1	1738.4	1545.8	1405.9	1341.5	1322.4	1311.9	1310.5	1311.9
25°	2147.2	2117.6	1907.4	1653.0	1436.8	1313.9	1276.4	1279.7	1281.7	1281.7	1286.2
27.5°	2226.1	2167.0	1871.2	1545.2	1309.3	1228.4	1217.9	1240.9	1251.4	1253.4	1256.7
30°	2330.0	2220.8	1811.4	1410.4	1200.8	1151.5	1169.9	1200.8	1212.6	1219.9	1218.5
32.5°	2453.5	2280.0	1730.5	1275.7	1113.4	1097.6	1120.0	1151.5	1164.6	1168.6	1163.4
35°	2598.8	2347.1	1624.1	1149.6	1037.1	1046.4	1072.6	1082.5	1094.3	1094.3	1097.0
37.5°	2755.2	2401.0	1494.0	1033.8	978.0	1011.6	1030.6	1021.4	1016.1	1009.5	1012.8
40°	2914.2	2441.1	1325.0	919.5	918.9	975.4	980.6	954.4	933.3	926.7	923.4
42.5°	3052.9	2466.1	1172.5	830.7	863.0	939.9	943.9	901.7	868.2	848.5	841.9
45°	3216.6	2494.9	1023.3	757.2	811.1	911.6	921.5	865.0	815.7	774.2	763.7
47.5°	3440.7	2560.7	905.7	700.0	773.6	893.9	907.7	834.7	769.7	715.8	707.2
50°	3693.8	2650.7	814.3	661.2	744.7	878.1	895.2	803.8	727.0	667.1	660.5
52.5°	3925.8	2699.4	735.5	626.4	716.4	849.2	878.8	781.5	684.8	618.5	612.6
55°	4052.6	2620.5	657.9	592.1	677.6	811.7	855.7	750.6	644.1	592.8	584.3
57.5°	4069.8	2457.5	587.6	555.4	636.9	765.7	813.0	713.1	617.8	575.1	567.8
60°	3937.6	2214.3	533.0	525.1	595.5	713.8	765.1	680.3	590.9	555.4	548.2
62.5°	3609.0	1950.1	494.9	497.5	553.4	659.3	729.6	648.7	565.2	533.7	527.1
65°	3043.7	1609.6	458.1	469.3	516.0	616.5	697.4	622.4	539.6	517.3	511.3
67.5°	2114.4	1162.0	427.9	439.7	480.5	573.1	659.8	594.2	510.7	498.9	489.6
70°	1170.6	715.1	392.4	406.2	443.6	524.5	617.8	551.4	468.6	463.4	450.2
72.5°	615.2	455.5	352.3	367.4	393.7	462.0	553.4	504.8	427.2	404.9	387.8
74°	480.5	373.3	325.4	341.1	358.9	425.2	515.3	471.2	397.6	371.4	358.2
75°	418.6	332.5	302.3	322.7	338.5	400.2	485.7	447.6	381.2	356.2	344.4
77.5°	295.8	249.1	247.2	271.5	280.0	350.9	437.7	407.5	339.8	313.5	302.3
80°	207.7	186.7	195.9	211.0	222.8	310.2	406.2	352.3	278.7	247.8	243.8
82.5°	135.4	122.3	140.0	153.8	157.8	228.8	328.0	267.5	203.1	165.0	153.1
85°	62.4	61.1	80.1	78.2	77.5	111.8	194.5	156.4	117.0	87.4	82.2
87.5°	15.8	15.1	19.7	16.4	19.7	17.1	17.7	4.6	0.7	0.0	0.0
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)