

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: P651265

Luminaire Tested: **GALN-SA2D-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651265
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-SA2D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA 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: 13054 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

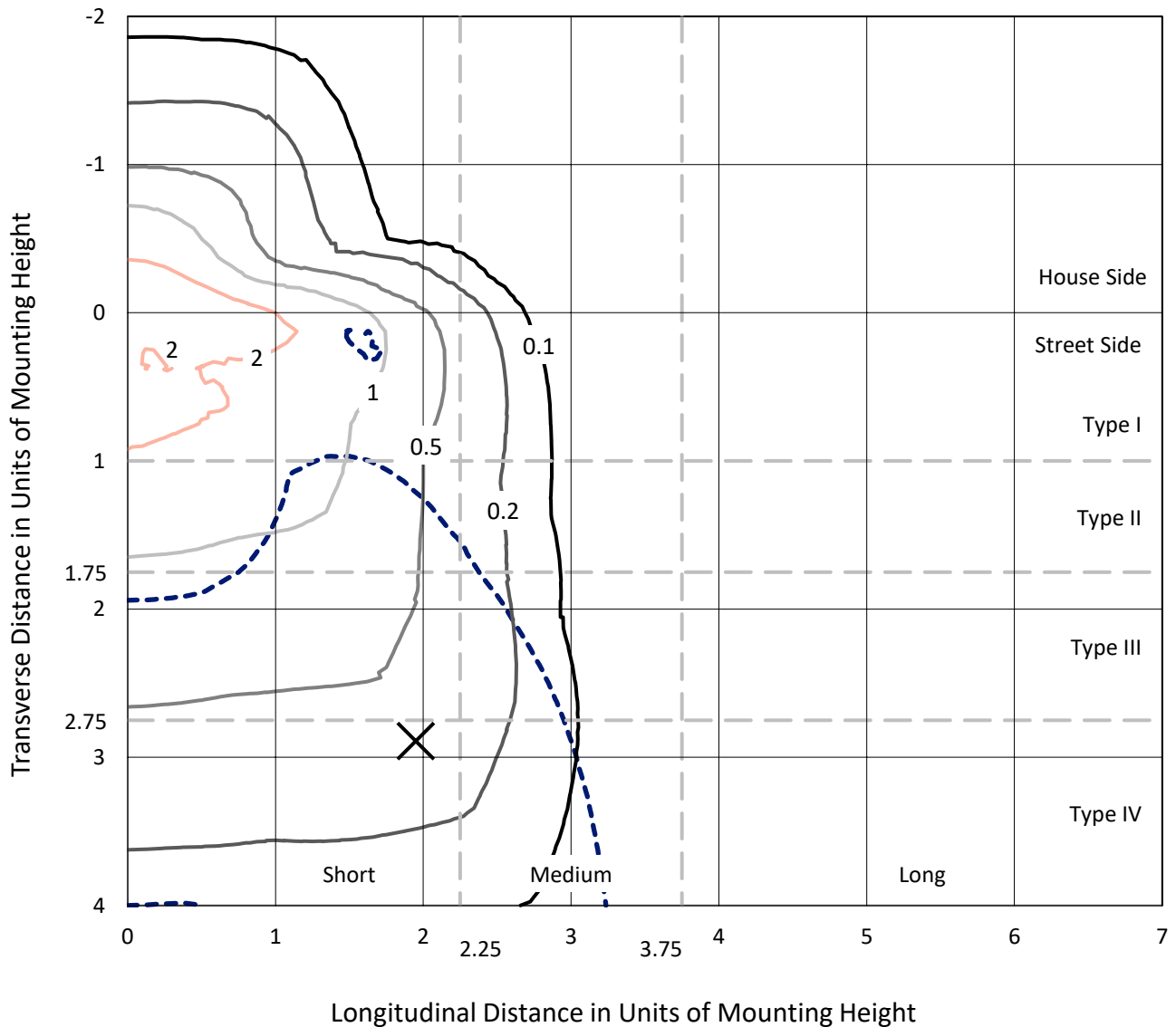
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

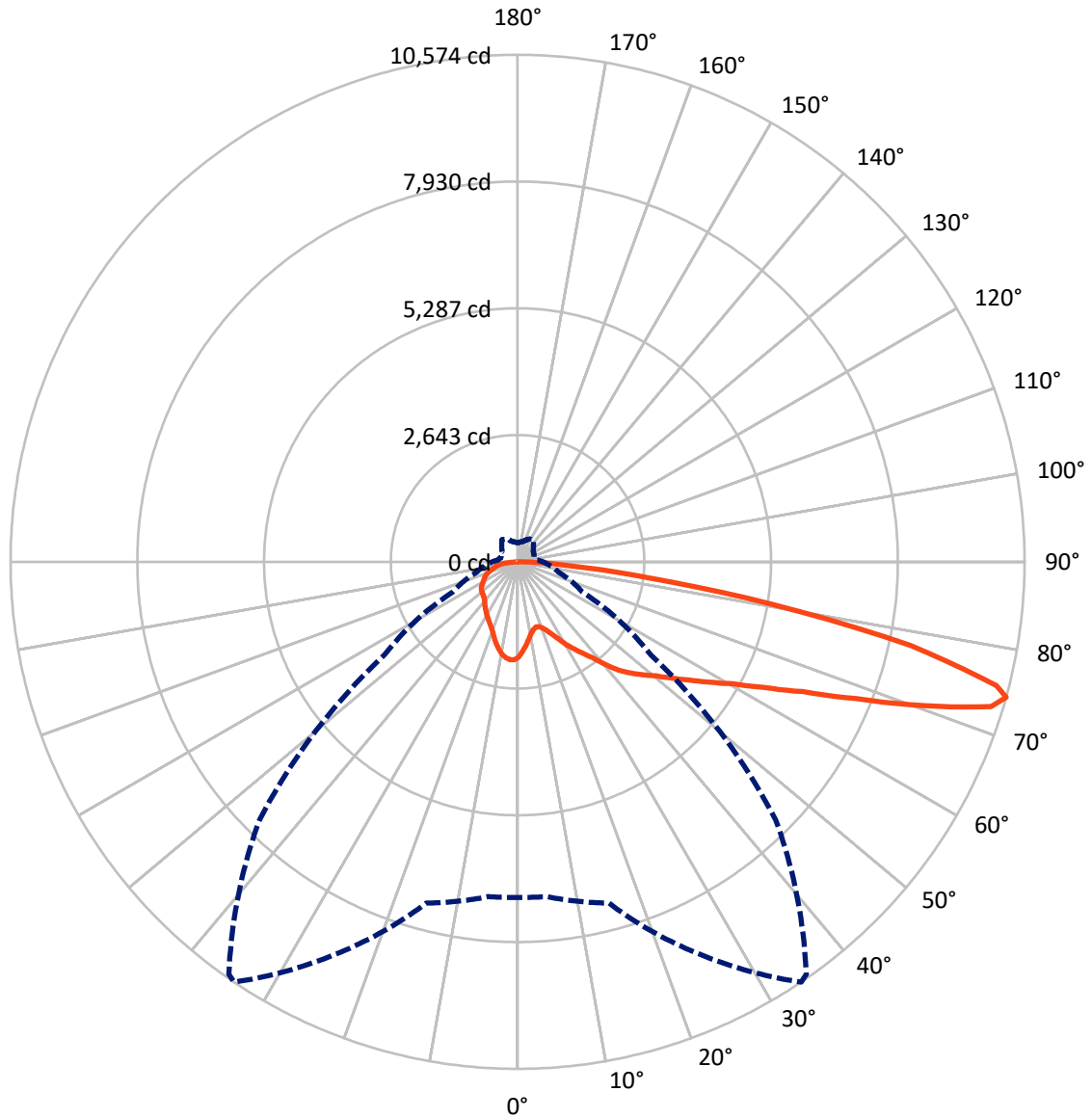
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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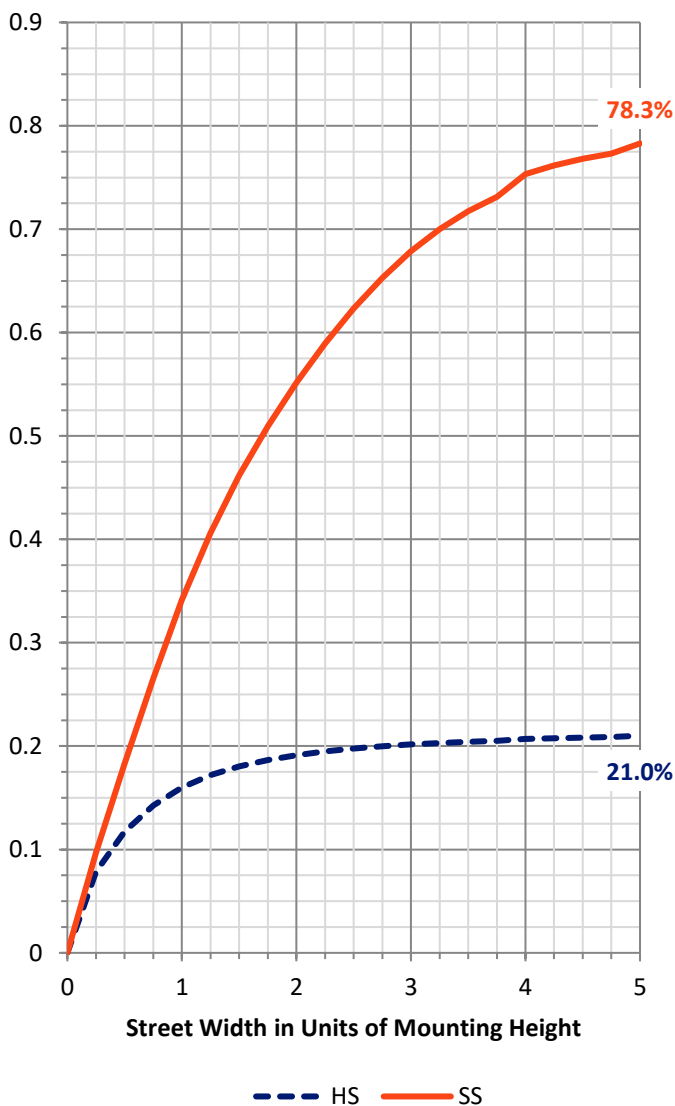
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2778.0	0.0	2778.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10276.0	0.0	10276.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	13054.0	0.0	13054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.4
10°-20°	496.2	3.8
20°-30°	818.1	6.3
30°-40°	1225.4	9.4
40°-50°	1781.4	13.6
50°-60°	2488.2	19.1
60°-70°	3115.1	23.9
70°-80°	2576.0	19.7
80°-90°	372.2	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°	13054.0	100.0
0°-180°	13054.0	100.0

Coefficient of Utilization

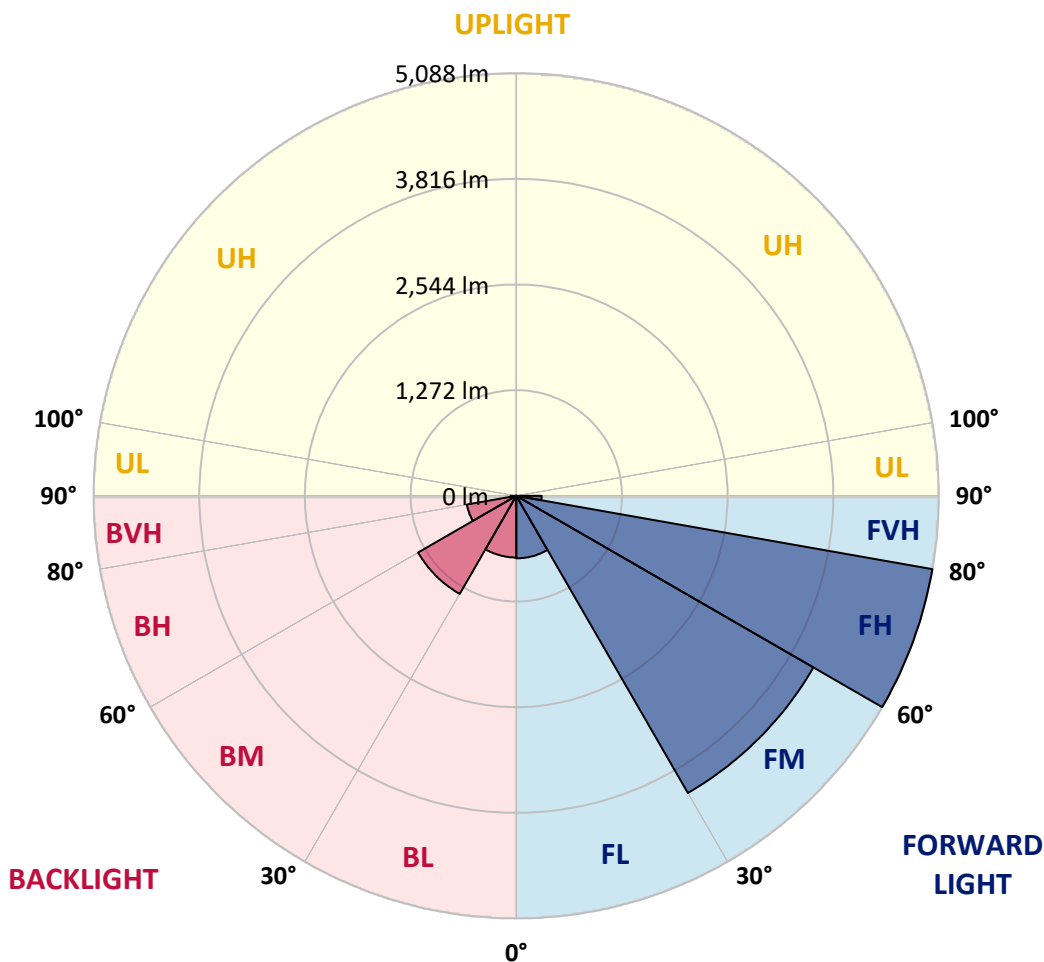


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.5	5.8			
FM (30°-60°)	4130.8	31.6			
FH (60°-80°)	5087.8	39.0			G3/7500
FVH (80°-90°)	304.9	2.3			G3/500
BL (0°-30°)	743.1	5.7	B2/1000		
BM (30°-60°)	1364.3	10.5	B2/2500		
BH (60°-80°)	603.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	67.3	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°	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1
2.5°	1842.0	1851.4	1856.4	1874.5	1878.8	1884.6	1899.8	1920.1	1946.1	1969.2	1989.5
5°	1688.6	1703.1	1711.8	1727.7	1758.8	1761.6	1802.2	1848.4	1901.2	1950.4	1990.9
7.5°	1543.2	1559.2	1566.4	1595.4	1636.6	1643.1	1702.4	1775.4	1863.7	1938.1	2000.3
10°	1434.1	1442.1	1458.0	1479.7	1528.8	1533.1	1610.5	1708.2	1822.4	1932.4	2016.2
12.5°	1374.8	1379.1	1382.7	1405.9	1454.3	1460.8	1541.8	1652.5	1789.9	1936.7	2042.3
15°	1383.4	1384.9	1369.0	1373.4	1412.4	1421.8	1502.0	1615.6	1769.6	1947.5	2081.3
17.5°	1456.5	1451.4	1412.4	1392.1	1419.6	1424.0	1494.1	1601.1	1760.2	1967.8	2121.8
20°	1571.5	1564.3	1497.0	1452.2	1468.0	1471.7	1520.1	1611.9	1769.6	2001.1	2184.7
22.5°	1714.6	1711.8	1609.8	1555.6	1554.8	1554.8	1580.2	1651.1	1797.8	2046.6	2250.5
25°	1915.0	1899.8	1766.8	1696.5	1677.0	1675.6	1672.7	1715.4	1834.0	2095.0	2328.6
27.5°	2120.3	2094.3	1975.8	1867.9	1826.1	1820.9	1802.2	1806.5	1880.3	2150.0	2417.6
30°	2304.8	2288.1	2176.8	2057.4	2007.6	1995.9	1943.9	1920.1	1957.7	2249.1	2559.3
32.5°	2445.8	2435.7	2348.9	2240.4	2166.7	2164.5	2088.5	2069.0	2078.4	2369.2	2721.3
35°	2560.1	2563.7	2519.6	2425.5	2340.9	2328.6	2278.0	2253.5	2226.0	2542.7	2925.3
37.5°	2716.3	2724.3	2721.3	2640.3	2537.0	2539.8	2528.2	2487.8	2414.7	2736.5	3151.6
40°	2888.4	2894.1	2893.5	2862.3	2808.1	2811.0	2806.7	2760.4	2651.2	2983.1	3403.3
42.5°	3126.3	3098.8	3027.3	3058.3	3090.2	3103.9	3133.6	3089.4	2939.7	3246.3	3639.8
45°	3392.4	3340.4	3178.4	3192.9	3310.8	3336.8	3500.2	3439.4	3252.9	3548.7	3918.2
47.5°	3560.2	3508.9	3372.2	3369.3	3525.5	3550.8	3840.1	3817.6	3537.8	3874.8	4258.1
50°	3709.9	3702.7	3548.7	3585.5	3738.2	3775.8	4210.4	4189.4	3822.0	4259.5	4628.4
52.5°	3931.9	3873.4	3750.4	3826.4	4028.1	4077.3	4577.7	4516.3	4083.1	4599.4	4987.8
55°	4031.8	4018.0	4010.7	4076.6	4353.5	4389.0	4935.0	4794.0	4305.8	4887.2	5261.1
57.5°	4298.6	4273.3	4344.9	4389.7	4736.8	4791.1	5308.1	5083.9	4501.1	5115.8	5394.2
60°	4644.3	4630.5	4696.3	4777.3	5165.0	5247.4	5733.3	5331.3	4658.0	5230.8	5321.2
62.5°	5160.6	5159.2	5146.9	5320.4	5771.7	5847.6	6221.5	5572.1	4682.6	5144.7	4943.7
65°	5901.1	5875.1	5768.1	5957.6	6526.7	6615.6	6729.9	5706.6	4534.3	4702.9	4162.6
67.5°	6675.7	6674.3	6587.5	6833.4	7610.8	7702.6	7365.6	5677.0	4122.8	3809.7	2956.4
70°	7317.9	7286.8	7397.4	8052.7	8995.7	9102.0	7921.7	5327.7	3283.9	2515.9	1756.6
72.5°	7471.9	7473.4	7703.3	8992.7	10325.5	10342.2	8122.0	4318.1	2197.8	1387.8	878.7
74°	6997.5	7009.8	7366.3	9039.7	10573.6	10498.5	7610.0	3393.9	1486.1	906.2	633.5
75°	6387.1	6309.8	6825.4	8726.6	10316.2	10235.2	7010.5	2723.5	1133.9	723.9	554.6
77.5°	3414.9	3493.7	4289.2	6512.3	8381.0	8287.6	4753.5	1306.1	612.5	504.1	399.2
80°	1215.7	1340.8	1884.6	3407.6	5373.2	5402.2	2268.6	598.8	431.0	371.7	282.1
82.5°	496.1	509.8	809.2	1512.2	2728.5	2754.6	926.4	355.8	308.1	256.0	168.5
85°	193.9	199.6	358.0	679.8	1164.3	1240.2	320.3	188.0	189.5	146.8	86.0
87.5°	65.1	73.8	146.8	226.4	395.6	387.6	93.3	55.7	68.0	63.7	26.7
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°	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1
2.5°	1999.6	2013.4	2022.8	2032.9	2042.3	2045.1	2043.0	2049.5	2050.2	2050.9	2051.7
5°	2011.2	2030.0	2048.1	2058.2	2062.6	2058.9	2046.6	2040.1	2034.3	2030.0	2031.4
7.5°	2027.1	2053.8	2070.5	2074.8	2063.2	2046.6	2016.2	1992.3	1977.2	1967.0	1966.3
10°	2051.7	2077.7	2091.4	2079.1	2047.3	2006.8	1959.1	1914.3	1880.3	1870.1	1869.5
12.5°	2082.7	2112.4	2111.7	2075.5	2019.8	1947.5	1870.1	1818.1	1771.8	1748.7	1758.0
15°	2123.3	2145.6	2124.7	2059.6	1971.4	1872.3	1776.9	1706.0	1653.9	1629.4	1630.8
17.5°	2170.3	2189.8	2134.1	2031.4	1903.4	1776.1	1665.5	1598.2	1557.0	1538.9	1537.5
20°	2228.8	2234.6	2134.1	1982.2	1815.9	1664.0	1558.5	1511.4	1488.3	1478.9	1481.8
22.5°	2291.7	2280.2	2122.5	1912.9	1700.9	1546.9	1476.0	1455.0	1443.5	1442.1	1443.5
25°	2362.6	2330.1	2098.6	1818.8	1580.9	1445.7	1404.4	1408.0	1410.2	1410.2	1415.2
27.5°	2449.4	2384.3	2058.9	1700.2	1440.5	1351.7	1340.0	1365.4	1377.0	1379.1	1382.7
30°	2563.7	2443.6	1993.1	1552.0	1321.2	1267.1	1287.2	1321.2	1334.2	1342.2	1340.8
32.5°	2699.6	2508.7	1904.1	1403.7	1225.1	1207.7	1232.3	1267.1	1281.5	1285.8	1280.0
35°	2859.5	2582.5	1787.0	1264.9	1141.2	1151.3	1180.3	1191.1	1204.1	1204.1	1207.0
37.5°	3031.6	2641.7	1643.8	1137.5	1076.1	1113.0	1133.9	1123.8	1118.0	1110.8	1114.4
40°	3206.6	2685.9	1458.0	1011.7	1011.0	1073.2	1079.0	1050.1	1026.9	1019.7	1016.1
42.5°	3359.2	2713.4	1290.2	914.1	949.6	1034.2	1038.5	992.2	955.3	933.6	926.4
45°	3539.3	2745.2	1126.0	833.1	892.4	1003.1	1013.9	951.7	897.4	851.9	840.3
47.5°	3785.8	2817.5	996.6	770.2	851.2	983.5	998.7	918.5	846.9	787.5	778.2
50°	4064.3	2916.6	896.0	727.5	819.4	966.1	985.0	884.5	799.9	734.0	726.8
52.5°	4319.5	2970.1	809.2	689.2	788.3	934.4	966.9	859.8	753.5	680.5	674.0
55°	4459.2	2883.3	723.9	651.6	745.6	893.1	941.6	825.9	708.7	652.3	642.9
57.5°	4477.9	2704.0	646.6	611.1	700.7	842.5	894.6	784.7	679.8	632.8	624.9
60°	4332.6	2436.4	586.5	577.9	655.2	785.4	841.8	748.5	650.2	611.1	603.2
62.5°	3970.9	2145.6	544.5	547.4	608.9	725.4	802.7	713.8	621.9	587.2	580.0
65°	3349.0	1771.1	504.1	516.4	567.7	678.4	767.3	684.8	593.7	569.1	562.6
67.5°	2326.5	1278.6	470.8	483.8	528.7	630.6	726.0	653.8	561.9	548.9	538.7
70°	1288.0	786.8	431.8	446.9	488.1	577.1	679.8	606.8	515.6	509.8	495.3
72.5°	676.9	501.2	387.6	404.3	433.2	508.4	608.9	555.4	470.0	445.5	426.6
74°	528.7	410.7	358.0	375.3	394.8	467.9	567.0	518.6	437.5	408.6	394.1
75°	460.7	365.9	332.7	355.1	372.5	440.4	534.5	492.5	419.4	392.0	379.0
77.5°	325.5	274.1	271.9	298.6	308.1	386.2	481.6	448.3	373.9	345.0	332.7
80°	228.5	205.4	215.5	232.1	245.2	341.4	446.9	387.6	306.6	272.7	268.3
82.5°	148.9	134.5	154.1	169.2	173.6	251.6	360.9	294.3	223.5	181.5	168.5
85°	68.7	67.3	88.2	86.0	85.4	123.0	214.0	172.2	128.8	96.2	90.4
87.5°	17.3	16.7	21.7	18.1	21.7	18.8	19.5	5.0	0.8	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)