

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: P652308

Luminaire Tested: **GALN-SA3B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652308
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-SA3B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 14166.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

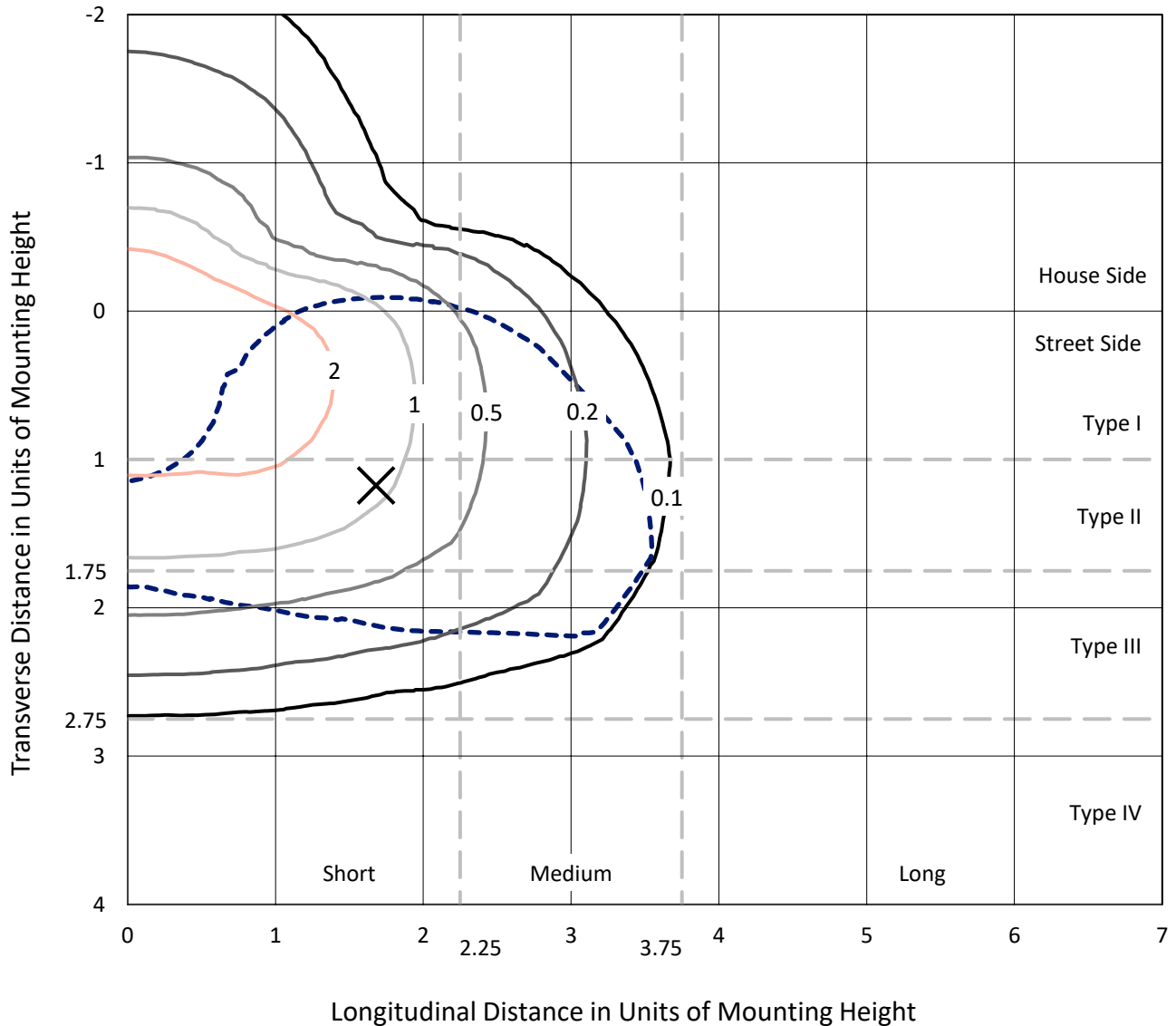
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

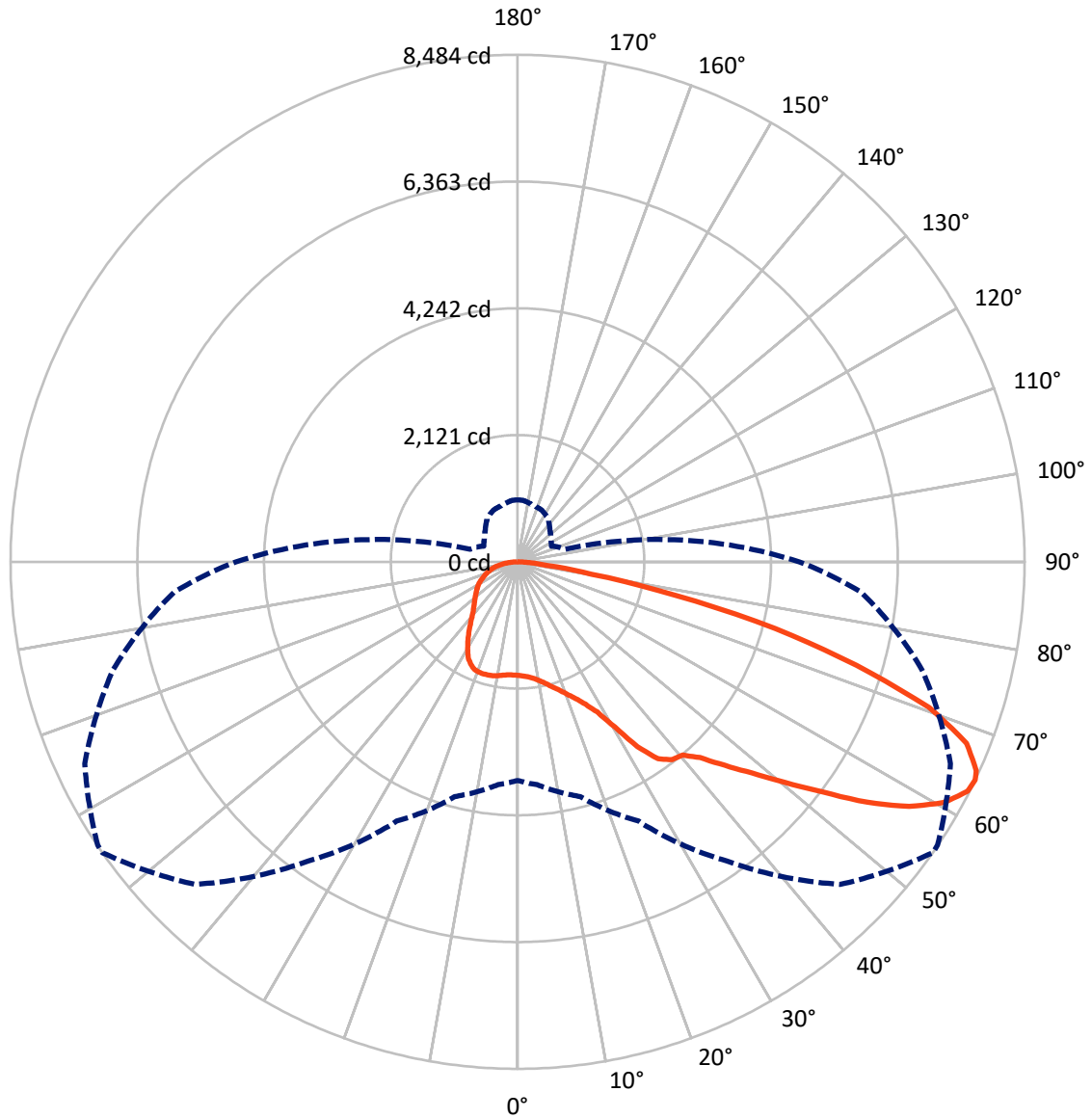
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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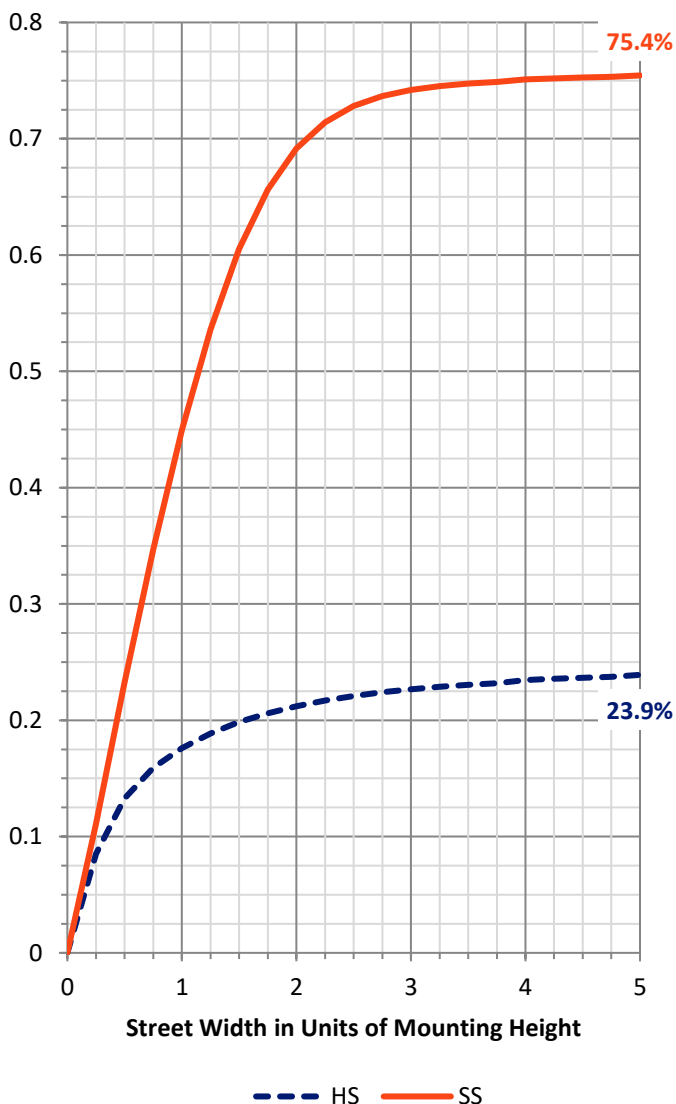
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3441.4	0.0	3441.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10725.3	0.0	10725.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	14166.6	0.0	14166.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	1.3
10°-20°	583.4	4.1
20°-30°	1038.6	7.3
30°-40°	1598.0	11.3
40°-50°	2265.3	16.0
50°-60°	3278.9	23.1
60°-70°	3393.3	24.0
70°-80°	1589.1	11.2
80°-90°	235.2	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°	14166.6	100.0
0°-180°	14166.6	100.0

Coefficient of Utilization



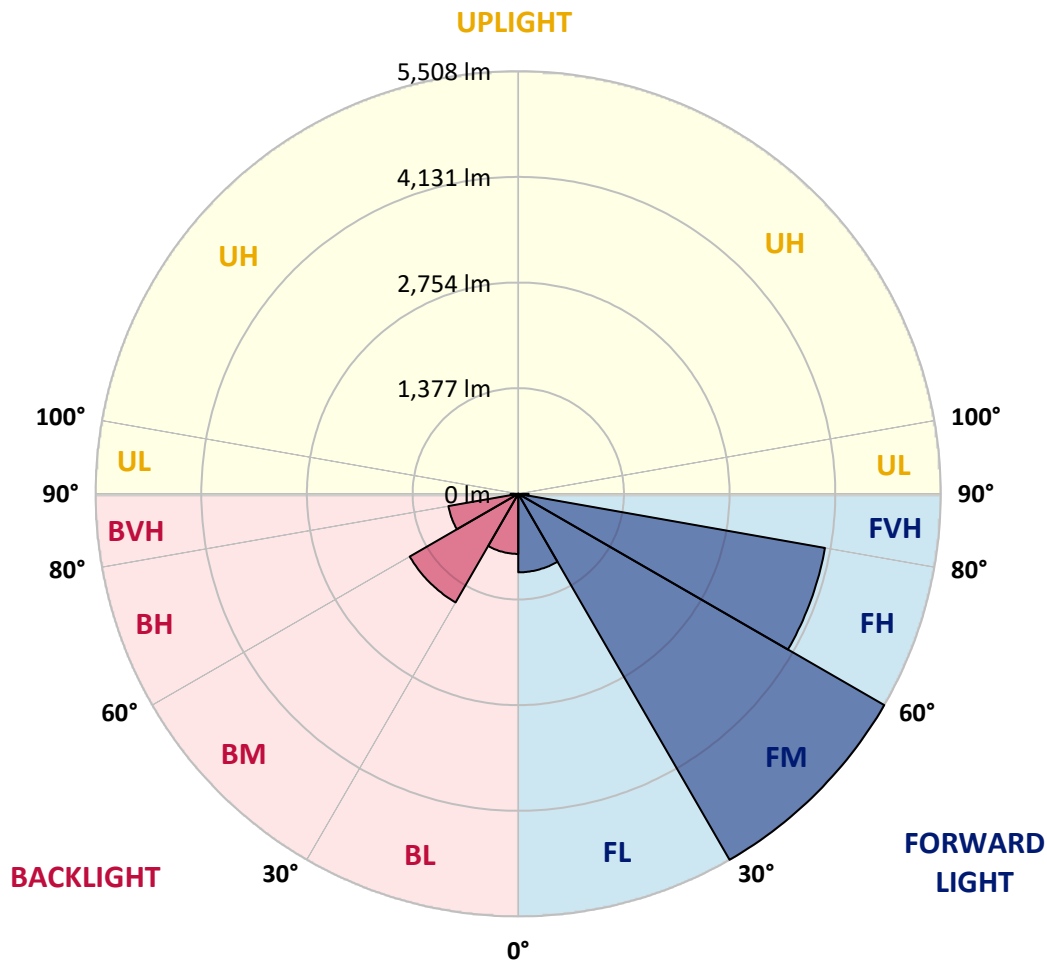
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.1	7.2			
FM (30°-60°)	5508.4	38.9			
FH (60°-80°)	4059.2	28.7			G2/5000
FVH (80°-90°)	134.7	1.0			G2/225
BL (0°-30°)	783.8	5.5	B2/1000		
BM (30°-60°)	1633.7	11.5	B2/2500		
BH (60°-80°)	923.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	100.6	0.7			G2/225
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°	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7
2.5°	1922.0	1921.3	1923.6	1921.3	1922.9	1917.3	1915.0	1916.6	1914.2	1910.2	1903.1
5°	1945.7	1945.0	1945.7	1942.6	1944.1	1941.0	1935.5	1937.1	1933.1	1924.5	1914.2
7.5°	1986.0	1982.8	1982.8	1982.1	1978.9	1974.2	1970.2	1968.6	1964.7	1953.6	1937.8
10°	2038.2	2038.2	2038.9	2032.6	2036.6	2027.9	2024.0	2023.1	2009.7	1995.5	1973.4
12.5°	2106.9	2110.8	2108.4	2105.3	2103.7	2100.5	2087.1	2090.2	2075.3	2050.8	2024.0
15°	2192.2	2198.5	2194.5	2192.9	2189.0	2177.1	2171.6	2169.2	2149.5	2113.9	2078.4
17.5°	2305.0	2297.2	2294.0	2290.0	2273.5	2264.8	2255.3	2253.7	2236.4	2194.5	2139.3
20°	2403.7	2414.8	2408.5	2404.6	2387.9	2371.4	2364.3	2361.9	2346.9	2301.1	2212.7
22.5°	2521.4	2523.8	2526.2	2516.7	2508.8	2496.2	2483.5	2479.6	2474.1	2426.6	2318.5
25°	2647.0	2656.5	2648.6	2639.1	2629.6	2628.8	2640.7	2639.1	2636.7	2590.9	2459.0
27.5°	2851.5	2860.2	2862.6	2852.3	2816.0	2819.1	2845.9	2854.7	2891.0	2815.2	2639.9
30°	2966.8	2975.5	2995.2	3033.9	3091.6	3142.1	3206.8	3226.6	3261.3	3118.4	2854.7
32.5°	3037.9	3041.1	3076.5	3148.5	3321.4	3510.1	3686.2	3693.3	3715.4	3514.8	3051.3
35°	3150.0	3152.4	3180.8	3259.8	3462.7	3777.0	4049.4	4058.1	4039.9	3638.0	3142.9
37.5°	3288.2	3294.5	3312.7	3378.2	3620.7	4000.5	4200.3	4193.9	4032.8	3735.9	3304.8
40°	3489.6	3489.6	3468.2	3556.7	3787.3	4128.4	4253.2	4242.1	4199.4	4019.4	3551.1
42.5°	3667.3	3664.1	3714.6	3774.7	3995.8	4325.9	4475.0	4493.2	4563.5	4375.6	3831.5
45°	3898.6	3912.8	3941.3	4050.3	4350.3	4663.0	4855.7	4873.1	4972.6	4794.9	4159.2
47.5°	4132.3	4137.0	4226.3	4371.6	4789.3	5120.3	5278.1	5306.5	5397.4	5285.3	4512.2
50°	4298.2	4343.2	4486.1	4715.2	5241.9	5677.8	5800.9	5834.9	5995.2	5819.0	4923.6
52.5°	4473.4	4517.7	4692.2	5041.3	5761.4	6247.9	6399.5	6422.4	6589.0	6359.2	5344.5
55°	4623.5	4664.6	4862.8	5330.3	6175.2	6829.8	7104.7	7077.9	7157.6	6775.3	5669.0
57.5°	4648.0	4681.2	4930.7	5515.0	6486.4	7328.9	7723.0	7738.8	7646.4	7086.5	5936.7
60°	4458.5	4526.4	4813.0	5495.3	6626.2	7676.4	8184.1	8195.2	7933.0	7246.0	6043.3
62.5°	4122.8	4115.8	4462.4	5177.9	6430.3	7755.4	8455.8	8444.0	8045.2	7169.4	5939.9
64°	3659.4	3744.6	4068.4	4787.7	6114.4	7633.8	8484.2	8477.9	7991.4	7009.9	5763.8
65°	3376.6	3371.9	3691.7	4468.7	5800.1	7450.5	8433.7	8425.0	7879.3	6866.9	5627.2
67.5°	2437.7	2448.7	2764.6	3448.5	4715.2	6734.3	8104.4	8072.0	7437.1	6393.2	5107.6
70°	1476.7	1483.0	1730.9	2287.7	3384.5	5444.0	7305.3	7306.9	6760.4	5685.7	4347.1
72.5°	777.8	794.4	893.9	1299.0	2055.5	3819.7	5926.4	6067.1	5804.1	4852.5	3434.3
75°	432.8	435.1	505.4	640.4	1048.6	2137.7	4454.5	4494.8	4595.1	3905.7	2539.6
77.5°	330.1	334.8	356.9	413.8	571.0	991.0	2695.9	2898.1	3238.4	2753.6	1449.0
80°	267.7	272.4	291.4	325.4	379.8	469.9	1252.4	1361.4	1733.3	1222.4	565.4
82.5°	208.5	205.3	229.8	251.9	276.4	278.0	514.1	568.6	705.9	526.0	244.8
85°	154.7	154.7	174.5	169.8	178.5	162.6	226.6	250.4	282.7	223.5	113.7
87.5°	61.6	68.0	114.5	102.7	79.7	64.0	83.7	88.5	97.9	87.6	47.3
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°	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7	1900.7
2.5°	1903.9	1906.3	1900.7	1896.8	1895.2	1892.8	1890.5	1891.2	1894.4	1897.5	1896.8
5°	1913.4	1914.2	1904.7	1900.0	1896.8	1893.6	1893.6	1896.0	1902.3	1907.1	1907.1
7.5°	1937.1	1937.1	1923.6	1915.0	1910.2	1904.7	1903.1	1903.9	1908.6	1915.0	1915.7
10°	1974.2	1971.1	1953.6	1940.2	1931.5	1918.1	1906.3	1900.0	1902.3	1906.3	1906.3
12.5°	2019.2	2010.5	1988.4	1970.2	1948.9	1923.6	1899.1	1886.5	1885.8	1889.6	1888.1
15°	2067.3	2057.8	2027.1	1993.9	1956.8	1919.7	1890.5	1872.3	1858.1	1854.2	1862.8
17.5°	2123.4	2103.7	2061.0	2015.2	1960.0	1911.8	1866.0	1828.8	1803.6	1796.5	1798.9
20°	2191.3	2165.2	2107.6	2035.8	1957.6	1883.3	1812.3	1762.6	1721.4	1708.8	1710.4
22.5°	2285.3	2240.3	2155.8	2046.1	1937.8	1829.7	1730.9	1666.2	1616.5	1596.7	1608.6
25°	2391.9	2342.9	2201.6	2043.6	1886.5	1743.6	1634.7	1550.1	1505.1	1475.9	1482.2
27.5°	2538.8	2451.9	2250.6	2022.4	1813.1	1638.6	1512.2	1432.5	1391.4	1376.4	1383.5
30°	2726.7	2593.3	2303.5	1964.7	1697.0	1505.9	1389.0	1336.9	1312.5	1293.5	1299.8
32.5°	2862.6	2692.8	2315.3	1867.6	1571.4	1385.0	1305.3	1266.6	1239.8	1221.6	1225.6
35°	2959.6	2777.2	2309.8	1748.4	1440.4	1285.6	1239.0	1207.4	1163.9	1124.5	1117.4
37.5°	3090.0	2883.1	2269.5	1618.0	1310.9	1218.4	1185.3	1126.9	1064.5	1011.6	1009.2
40°	3289.7	3007.1	2183.4	1464.9	1200.3	1168.7	1128.5	1052.6	985.5	942.8	939.7
42.5°	3495.9	3121.5	2066.6	1303.7	1109.4	1116.6	1067.6	992.6	951.6	923.9	920.7
45°	3747.7	3245.5	1940.2	1163.9	1042.3	1067.6	1014.8	971.3	946.8	928.6	923.9
47.5°	4020.2	3372.7	1798.1	1038.4	985.5	1022.7	992.6	972.9	959.4	946.8	941.2
50°	4314.0	3514.8	1664.6	937.4	934.2	976.1	990.3	983.1	975.2	971.3	966.6
52.5°	4636.2	3660.1	1552.5	866.2	889.2	942.8	991.0	996.6	996.6	994.2	991.0
55°	4854.1	3761.2	1438.8	808.6	843.4	916.0	989.4	1010.8	1018.7	1015.5	1012.4
57.5°	5015.2	3816.5	1295.8	758.8	804.7	889.9	980.8	1012.4	1020.2	1024.2	1022.7
60°	5048.4	3765.2	1108.7	706.8	762.8	852.0	949.2	988.7	998.9	1023.4	1025.8
62.5°	4899.1	3607.2	922.3	655.4	711.5	794.4	906.5	961.9	982.4	1020.2	1024.2
64°	4715.9	3430.4	818.9	623.0	678.4	762.0	885.2	954.7	981.5	1032.1	1035.3
65°	4581.7	3301.6	754.1	602.5	657.0	740.7	873.4	957.1	988.7	1050.2	1055.0
67.5°	4087.3	2858.6	623.9	554.4	606.4	704.4	875.7	976.8	987.1	1057.4	1056.5
70°	3382.2	2275.8	522.8	510.2	557.5	675.2	866.2	945.2	946.0	992.6	981.5
72.5°	2532.5	1682.0	453.3	464.3	503.0	605.7	818.1	902.6	889.2	895.5	884.4
75°	1739.6	1112.6	390.1	415.4	446.2	535.4	750.2	819.6	798.4	790.5	782.6
77.5°	928.6	615.2	324.5	367.2	387.7	462.7	654.6	721.7	699.6	668.8	658.6
80°	375.8	289.8	261.4	304.0	315.9	372.7	544.9	586.8	570.1	516.5	499.0
82.5°	188.7	173.8	205.3	239.3	240.0	266.1	405.1	444.6	407.5	342.0	326.9
85°	98.7	101.8	141.4	168.2	148.4	143.7	243.2	269.3	247.2	214.8	193.4
87.5°	35.6	41.0	74.3	73.4	52.1	27.7	53.7	26.1	14.2	8.7	11.0
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)