

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: STREETWORKS

Report Number: P318446

Luminaire Tested: **GAN-SA2C-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14474 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

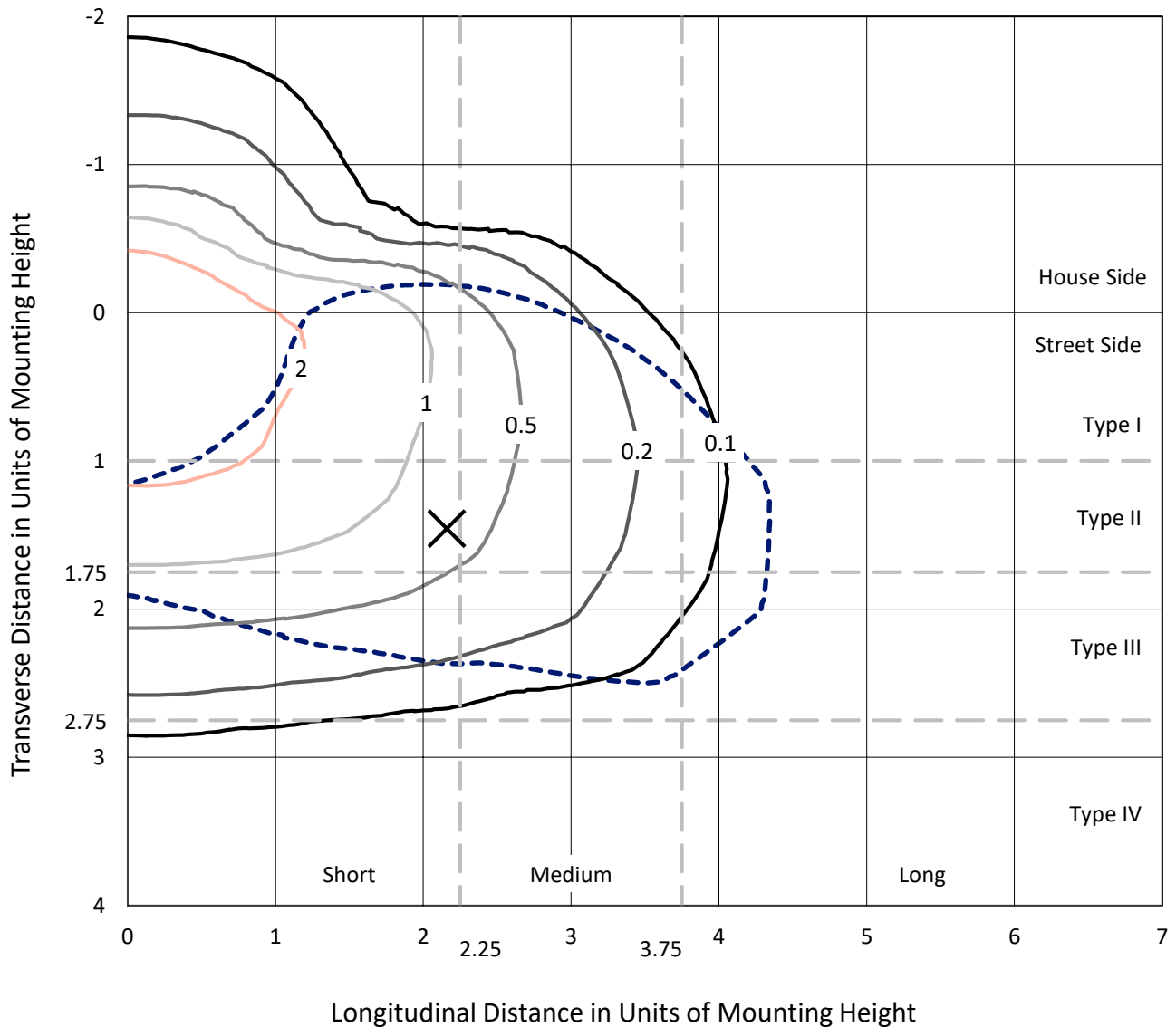
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

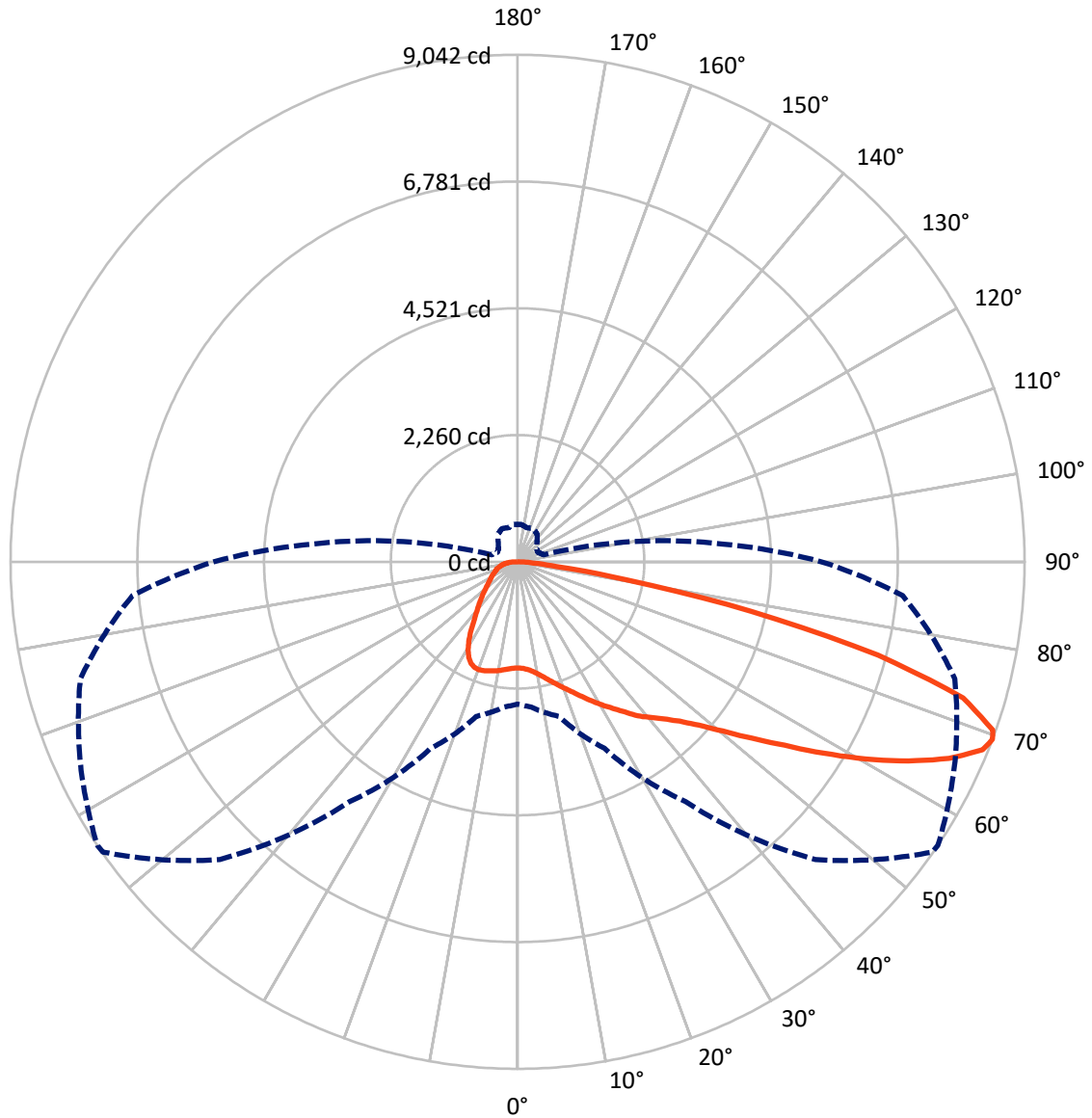
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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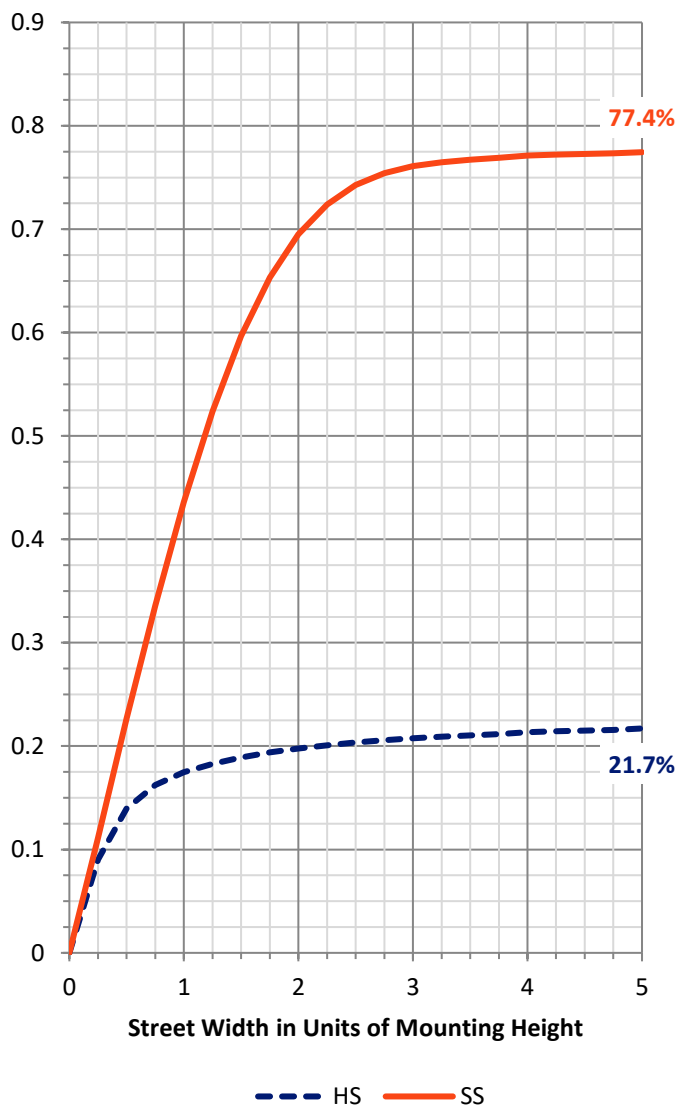
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.3	0.0	3223.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11250.7	0.0	11250.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	14474.0	0.0	14474.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.3
10°-20°	597.6	4.1
20°-30°	1043.2	7.2
30°-40°	1498.5	10.4
40°-50°	2073.9	14.3
50°-60°	3038.5	21.0
60°-70°	3704.6	25.6
70°-80°	2048.1	14.2
80°-90°	283.7	2.0
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°	14474.0	100.0
0°-180°	14474.0	100.0

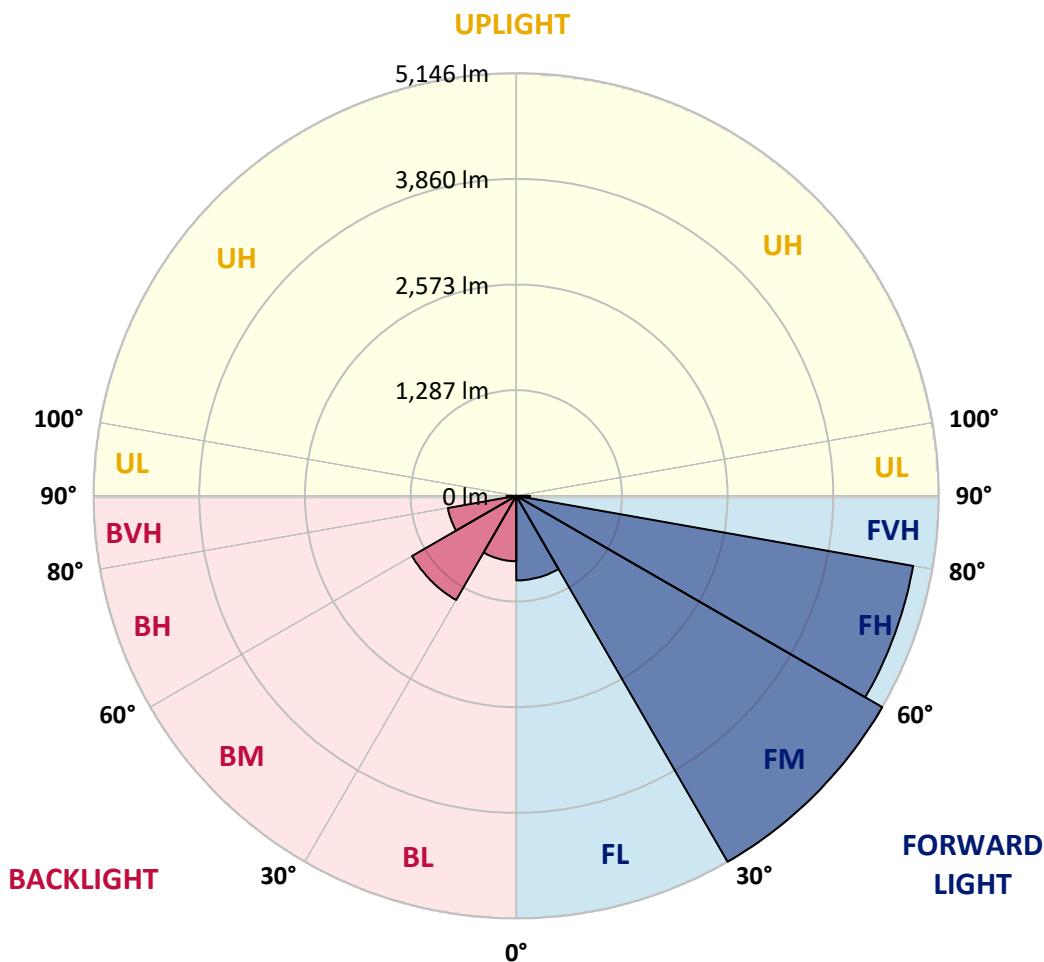


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.1	7.1			
FM (30°-60°)	5146.0	35.6			
FH (60°-80°)	4907.4	33.9			G2/5000
FVH (80°-90°)	167.1	1.2			G2/225
BL (0°-30°)	796.6	5.5	B2/1000		
BM (30°-60°)	1464.9	10.1	B2/2500		
BH (60°-80°)	845.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	116.6	0.8			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°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1904.2	1906.2	1904.7	1908.7	1904.2	1907.2	1904.7	1904.7	1903.2	1898.7	1893.8
5°	1934.1	1938.1	1935.6	1939.6	1934.1	1935.1	1930.7	1930.7	1926.2	1916.7	1906.7
7.5°	1981.0	1985.5	1983.5	1987.5	1980.0	1980.0	1974.0	1973.5	1964.6	1949.1	1937.6
10°	2036.9	2042.8	2040.8	2046.8	2040.8	2042.8	2036.9	2036.9	2024.9	2003.0	1988.5
12.5°	2118.1	2125.6	2120.1	2119.6	2117.1	2121.1	2116.1	2115.1	2104.2	2074.3	2054.3
15°	2226.8	2234.8	2223.3	2222.3	2208.4	2206.9	2206.9	2205.4	2198.4	2162.5	2129.6
17.5°	2352.0	2354.5	2344.5	2328.5	2310.6	2299.1	2297.6	2301.6	2301.6	2259.7	2207.4
20°	2474.6	2479.1	2471.2	2453.2	2430.3	2413.3	2401.3	2409.3	2408.8	2359.0	2284.7
22.5°	2608.3	2618.7	2606.8	2583.8	2556.9	2538.0	2517.0	2524.0	2524.5	2463.2	2360.5
25°	2781.3	2771.8	2764.3	2731.9	2693.5	2674.1	2654.6	2661.6	2659.6	2575.4	2438.7
27.5°	2934.4	2936.4	2926.4	2892.0	2847.6	2804.7	2803.7	2808.2	2800.7	2692.0	2512.5
30°	3112.4	3113.4	3099.4	3068.5	3020.1	2964.8	2951.8	2959.3	2943.3	2802.7	2590.3
32.5°	3289.4	3294.4	3278.9	3241.5	3202.6	3135.3	3109.4	3114.4	3074.5	2915.9	2670.6
35°	3444.5	3451.4	3446.5	3421.5	3379.1	3321.3	3290.4	3287.4	3238.0	3054.5	2776.8
37.5°	3602.5	3609.0	3603.5	3582.6	3565.6	3504.3	3487.8	3487.8	3402.1	3196.1	2911.9
40°	3765.1	3775.0	3768.6	3739.6	3725.2	3697.3	3657.9	3648.4	3555.6	3366.2	3132.3
42.5°	3916.2	3929.1	3955.0	3938.1	3908.7	3912.7	3833.4	3828.4	3760.6	3617.5	3409.1
45°	4130.6	4149.5	4193.4	4180.4	4174.4	4152.5	4058.3	4053.8	4027.8	3955.5	3752.6
47.5°	4364.4	4390.3	4469.6	4472.1	4536.4	4495.0	4366.9	4351.4	4357.4	4360.4	4171.9
50°	4579.8	4608.2	4738.4	4799.7	4951.3	4960.3	4755.3	4741.4	4764.8	4833.6	4660.6
52.5°	4751.8	4787.7	4950.3	5139.8	5399.5	5473.3	5233.5	5223.0	5240.5	5359.2	5213.1
55°	4878.0	4916.9	5093.9	5438.9	5853.8	5983.9	5784.0	5774.0	5785.0	5936.1	5813.9
57.5°	4907.4	4916.9	5173.7	5640.4	6237.2	6549.9	6457.6	6437.7	6383.8	6515.4	6477.1
60°	4769.3	4807.2	5107.8	5711.2	6533.9	7107.8	7161.7	7136.7	6985.6	7093.3	7062.4
62.5°	4489.1	4556.9	4862.0	5603.5	6650.1	7563.5	7852.2	7822.3	7562.0	7631.9	7483.3
65°	4031.3	4060.3	4380.9	5232.0	6502.5	7855.2	8468.0	8453.1	8125.5	8016.3	7561.1
67.5°	3212.6	3266.9	3539.2	4455.7	5898.7	7820.8	8944.2	8942.7	8493.5	8158.9	7285.3
69°	2538.0	2594.3	2853.6	3670.3	5219.5	7506.2	9024.0	9041.5	8597.2	8072.1	6891.4
70°	2023.4	2088.7	2266.7	3091.4	4616.7	7091.4	8957.7	8989.1	8577.2	7929.0	6527.9
72.5°	861.1	914.0	1040.6	1593.6	2813.7	5295.3	8190.3	8309.0	8115.0	7256.9	5395.1
75°	376.0	392.4	449.8	649.7	1249.0	2882.0	6416.2	6635.6	6938.8	6134.0	4018.9
77.5°	275.2	282.2	313.6	381.4	560.4	1088.5	4126.1	4253.7	5004.1	4463.6	2465.2
80°	212.9	217.9	242.3	280.2	366.0	440.3	1881.8	1991.5	2813.7	2292.6	1026.7
82.5°	169.5	173.0	190.0	206.4	252.8	266.8	624.8	693.1	1038.6	633.2	271.7
85°	157.6	161.6	167.5	150.6	162.1	156.6	270.3	282.7	313.6	248.8	113.7
87.5°	71.3	84.3	166.0	117.2	86.3	68.8	110.7	115.7	130.1	130.6	50.4
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°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1896.7	1895.2	1897.7	1891.8	1899.2	1898.7	1896.2	1897.2	1902.2	1901.7	1902.2
5°	1908.2	1907.2	1910.2	1905.7	1914.7	1917.7	1918.2	1922.7	1928.2	1929.7	1929.7
7.5°	1937.1	1937.1	1938.6	1932.6	1938.6	1938.1	1935.6	1940.1	1945.6	1946.1	1945.6
10°	1987.0	1987.5	1985.0	1969.5	1964.6	1951.1	1938.6	1939.1	1946.1	1951.6	1953.1
12.5°	2049.8	2047.8	2036.9	2008.4	1987.5	1960.1	1947.1	1946.6	1953.6	1958.1	1959.6
15°	2121.6	2116.1	2087.7	2041.3	2004.4	1977.5	1956.6	1951.6	1947.6	1942.6	1943.1
17.5°	2189.4	2177.0	2129.6	2065.3	2026.4	1990.5	1950.1	1917.7	1895.2	1882.3	1878.3
20°	2258.2	2233.8	2165.5	2087.7	2038.4	1973.0	1895.2	1829.4	1788.5	1769.6	1766.1
22.5°	2321.1	2281.7	2198.9	2111.2	2028.9	1914.2	1792.0	1696.3	1639.5	1614.0	1616.0
25°	2382.4	2327.6	2233.8	2127.6	1981.0	1810.5	1648.4	1530.8	1464.9	1436.5	1435.5
27.5°	2436.3	2373.9	2271.7	2114.1	1891.8	1662.9	1478.4	1363.7	1308.9	1284.4	1280.5
30°	2498.1	2432.3	2322.1	2062.8	1761.1	1492.4	1312.4	1231.6	1192.7	1168.3	1163.8
32.5°	2573.4	2511.5	2363.5	1969.5	1594.1	1314.4	1182.7	1126.4	1091.0	1063.6	1058.6
35°	2683.1	2616.3	2373.9	1835.9	1410.6	1173.7	1087.5	1029.6	981.8	946.4	942.9
37.5°	2820.7	2747.4	2350.0	1662.9	1232.6	1082.5	1008.2	936.9	874.6	824.7	816.7
40°	3019.1	2908.4	2283.7	1463.4	1101.4	1012.2	930.9	849.6	772.4	714.0	702.6
42.5°	3257.5	3097.4	2182.0	1265.0	1005.2	940.9	854.1	753.4	679.6	638.2	632.2
45°	3560.6	3293.9	2040.8	1091.5	910.5	869.6	771.4	678.6	632.7	602.3	597.3
47.5°	3906.7	3514.3	1892.8	950.4	830.2	802.8	705.0	645.2	608.8	584.9	580.4
50°	4332.0	3763.1	1735.7	834.7	749.4	722.5	673.6	626.8	597.8	579.4	574.9
52.5°	4811.7	4043.8	1622.5	743.4	682.6	663.2	657.2	616.8	593.4	579.4	574.9
55°	5328.2	4329.5	1500.3	666.7	624.8	630.3	646.2	617.8	601.8	584.9	578.4
57.5°	5845.3	4624.7	1364.2	601.8	578.9	605.8	638.7	619.8	606.3	589.9	583.9
60°	6254.2	4811.7	1153.3	547.5	542.5	578.9	620.8	604.8	587.4	587.9	586.9
62.5°	6445.1	4801.7	920.4	499.1	506.1	542.5	591.9	581.4	566.9	586.4	587.9
65°	6337.9	4562.4	716.5	455.2	467.2	504.6	561.9	569.9	574.9	612.3	617.3
67.5°	5888.2	4096.7	555.0	416.8	431.8	478.7	564.9	620.8	627.3	666.7	666.2
69°	5423.0	3659.9	482.2	396.9	414.4	485.2	603.8	653.2	628.8	670.6	664.7
70°	5033.1	3314.3	443.3	383.4	406.4	496.6	629.8	652.7	621.3	657.2	647.2
72.5°	3876.3	2384.4	376.0	358.5	379.4	475.2	637.2	638.2	603.8	610.8	593.9
75°	2658.6	1506.8	328.1	324.6	338.6	428.3	613.3	609.8	558.5	548.5	534.5
77.5°	1465.9	765.4	278.7	292.2	301.7	379.4	557.5	552.5	510.1	489.1	484.2
80°	565.4	335.1	235.3	259.8	265.8	328.6	488.6	484.2	448.8	421.8	414.4
82.5°	213.4	175.5	194.5	224.9	222.9	271.2	413.9	411.4	377.0	337.6	325.6
85°	98.7	105.2	154.1	185.5	171.0	200.9	331.1	335.6	293.7	246.8	246.8
87.5°	41.9	58.8	109.2	140.1	115.2	135.6	242.8	231.9	212.9	147.6	138.6
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)