

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: P476499

Luminaire Tested: **IFLD-M-SA4A-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476499  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

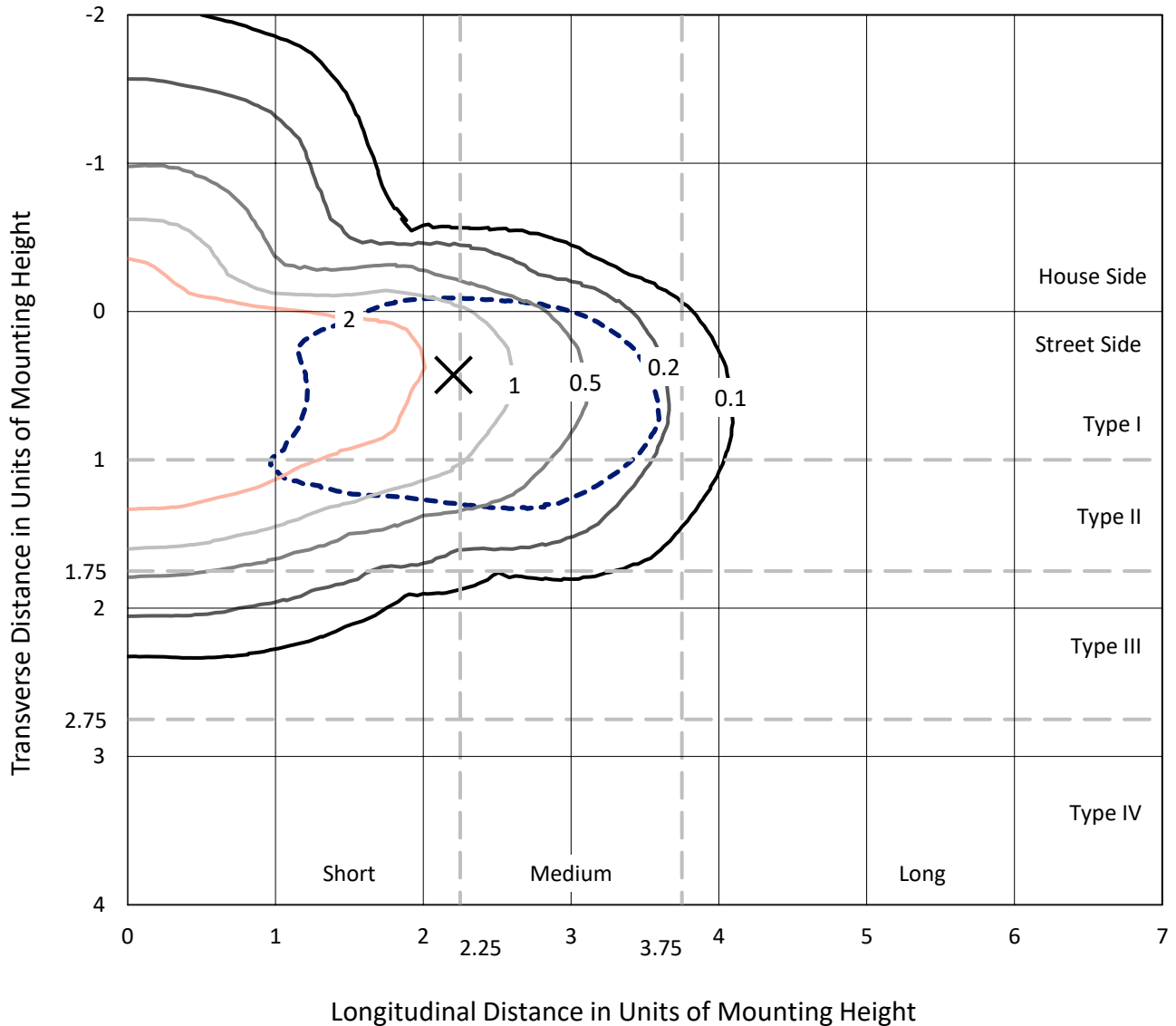
Lumens per Lamp: N/A  
Luminaire Lumens: 15425.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6  
Input Voltage (V): 120  
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

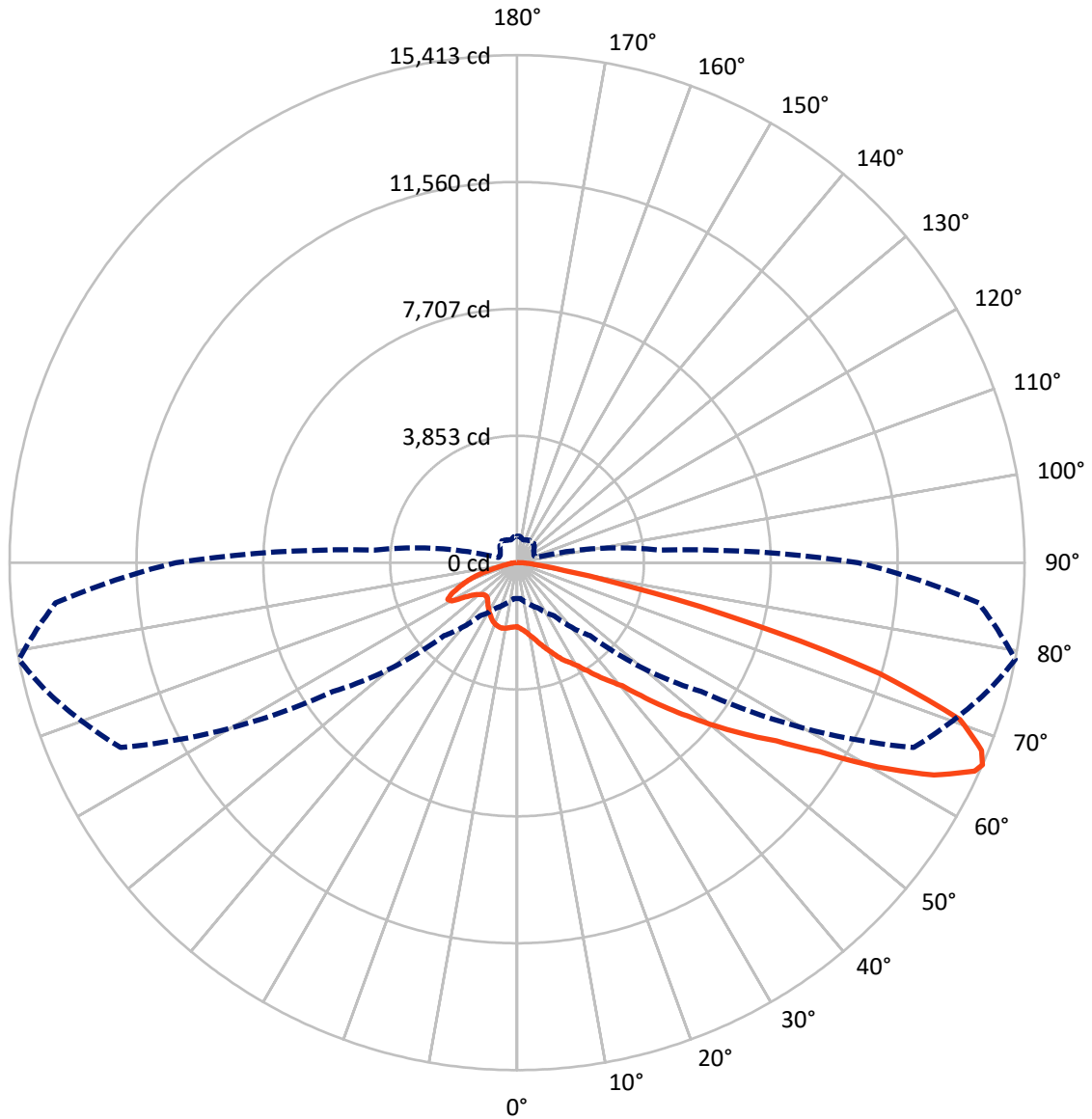
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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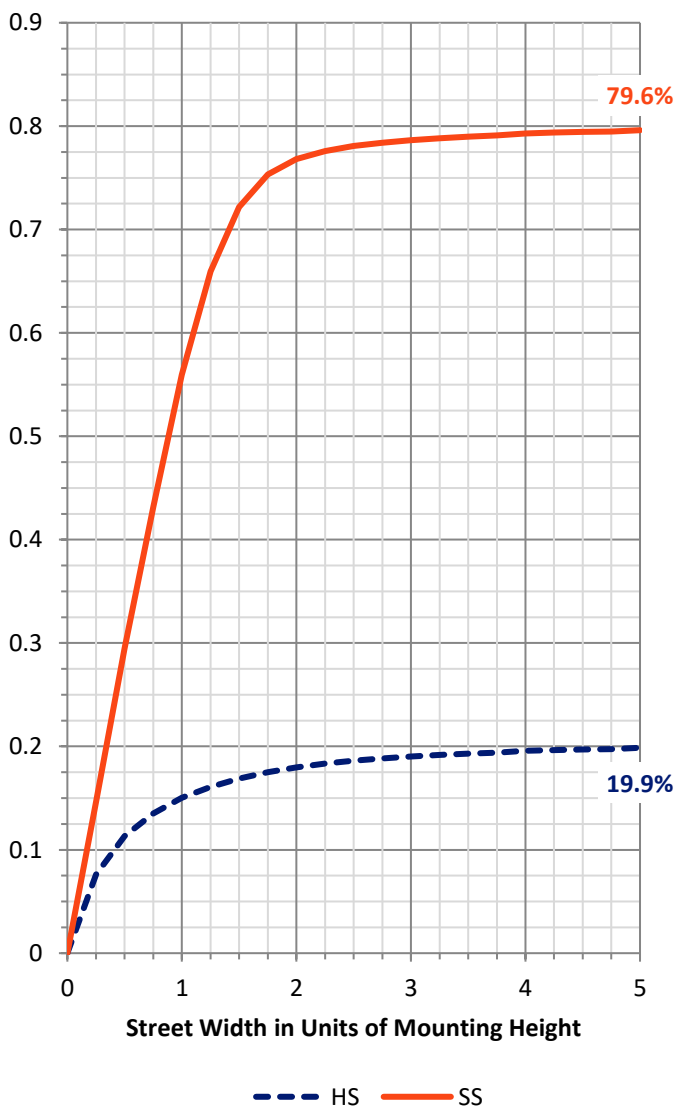
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3115.0	0.0	3115.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	12310.6	0.0	12310.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	15425.6	0.0	15425.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	1.2
10°-20°	591.4	3.8
20°-30°	1015.2	6.6
30°-40°	1568.3	10.2
40°-50°	2512.0	16.3
50°-60°	3750.6	24.3
60°-70°	3853.8	25.0
70°-80°	1708.3	11.1
80°-90°	234.4	1.5
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°	15425.6	100.0
0°-180°	15425.6	100.0

**Coefficient of Utilization**



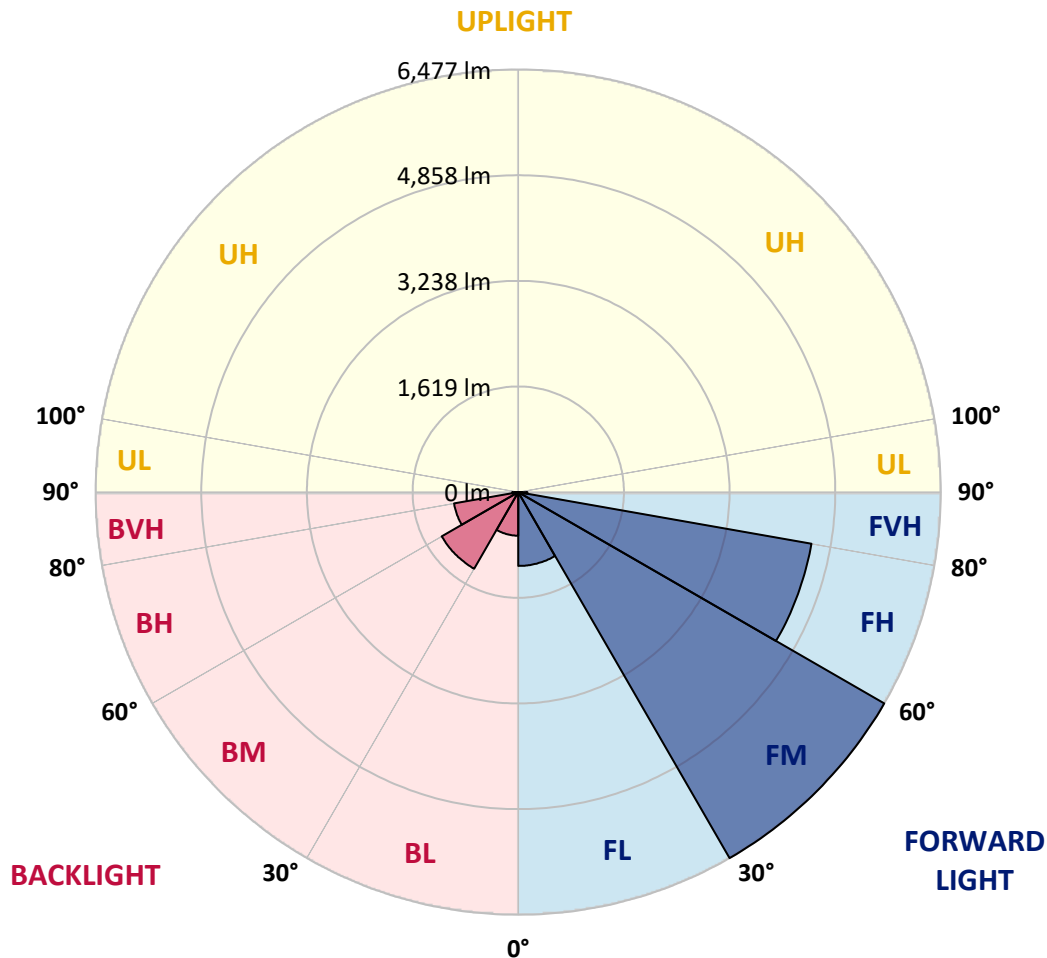
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.8	7.3			
FM (30°-60°)	6476.7	42.0			
FH (60°-80°)	4562.6	29.6			G2/5000
FVH (80°-90°)	140.6	0.9			G2/225
BL (0°-30°)	667.4	4.3	B2/1000		
BM (30°-60°)	1354.3	8.8	B2/2500		
BH (60°-80°)	999.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	93.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	2071.7	2073.4	2073.4	2066.6	2068.3	2073.4	2054.7	2014.0	2014.0	2007.2	1995.3
5°	2198.9	2190.5	2178.6	2180.3	2173.5	2173.5	2153.1	2114.1	2080.2	2066.6	2031.0
7.5°	2215.9	2224.4	2222.7	2243.1	2253.2	2253.2	2263.4	2231.2	2180.3	2148.0	2112.4
10°	2249.8	2227.8	2226.1	2273.6	2288.9	2324.5	2365.2	2348.3	2305.8	2260.0	2212.5
12.5°	2270.2	2283.8	2283.8	2307.5	2343.2	2395.8	2467.0	2499.3	2433.1	2385.6	2312.6
15°	2300.7	2282.1	2336.4	2356.7	2424.6	2461.9	2563.7	2646.9	2602.8	2545.1	2429.7
17.5°	2314.3	2302.4	2333.0	2370.3	2485.7	2541.7	2665.5	2780.9	2743.6	2706.3	2587.5
20°	2383.9	2382.2	2395.8	2426.3	2509.4	2619.7	2774.1	2933.6	2947.2	2879.3	2718.1
22.5°	2553.6	2531.5	2531.5	2519.6	2555.3	2668.9	2877.6	3098.2	3159.3	3079.5	2865.8
25°	2709.7	2740.2	2721.5	2667.2	2653.7	2713.0	2952.3	3273.0	3354.4	3279.7	3066.0
27.5°	2909.9	2920.0	2952.3	2879.3	2786.0	2804.7	3033.7	3371.4	3539.3	3439.2	3179.6
30°	3198.3	3179.6	3172.9	3091.4	2969.2	2943.8	3127.0	3515.6	3782.0	3641.1	3313.7
32.5°	3393.4	3439.2	3437.5	3325.6	3177.9	3122.0	3242.4	3651.3	4041.6	3910.9	3561.4
35°	3780.3	3827.8	3790.5	3625.9	3452.8	3340.8	3408.7	3827.8	4338.5	4236.7	3771.8
37.5°	4274.0	4386.0	4306.3	4002.5	3758.2	3636.1	3639.5	4019.5	4642.2	4559.1	3997.5
40°	4615.1	4766.1	4655.8	4370.7	4111.1	3995.8	3950.0	4246.9	5005.3	4917.1	4350.4
42.5°	5037.5	5163.1	5105.4	4823.8	4520.0	4421.6	4330.0	4626.9	5560.1	5519.4	4803.4
45°	5499.1	5558.4	5539.8	5361.6	5024.0	4990.0	4788.1	5127.5	6213.4	6230.3	5370.1
47.5°	5928.3	5960.6	5996.2	5867.2	5656.8	5685.7	5315.8	5663.6	6847.9	6959.9	6001.3
50°	6038.6	6148.9	6232.0	6318.6	6364.4	6559.5	5897.8	6322.0	7577.5	7794.7	6703.7
52.5°	5926.6	5918.1	6170.9	6442.4	6900.5	7309.4	6690.1	7139.8	8222.3	8651.5	7346.8
55°	5417.6	5400.6	5807.9	6167.6	7061.7	7726.8	7821.9	8229.1	9001.1	9559.3	8217.2
57.5°	4526.8	4421.6	4866.2	5456.6	6712.2	7772.6	8958.7	9846.0	10198.9	10835.2	9545.7
60°	3042.2	2998.1	3424.0	4128.1	5449.8	7122.8	9639.0	11870.2	11887.2	12603.2	11607.2
62.5°	1873.2	1881.7	2154.8	2682.5	3815.9	5646.7	9345.5	13487.2	13490.6	14208.3	13303.9
65°	1225.0	1230.1	1450.7	1742.5	2383.9	3829.5	7728.5	13614.4	14605.3	15272.1	14081.0
66°	1091.0	1092.7	1282.7	1520.3	1975.0	3133.8	6825.9	13283.6	14856.4	15413.0	14070.9
67.5°	919.6	941.7	1094.4	1277.6	1540.6	2251.5	5415.9	12326.6	14727.5	15216.1	13751.9
70°	719.4	731.3	851.8	1038.4	1155.5	1303.1	3218.7	10047.9	13480.4	14272.8	12591.3
72.5°	576.9	587.1	678.7	843.3	938.3	858.5	1752.7	7290.8	10648.6	11493.5	9903.7
75°	487.0	488.7	532.8	663.4	772.0	644.8	933.2	4679.5	6832.7	7226.3	6067.4
77.5°	393.6	400.4	431.0	505.6	621.0	507.3	556.5	2621.4	3430.8	3459.6	2804.7
80°	320.7	324.1	342.7	368.2	473.4	375.0	376.7	1279.3	1471.1	1437.1	1140.2
82.5°	252.8	256.2	278.3	273.2	347.8	268.1	234.1	615.9	677.0	663.4	524.3
85°	142.5	142.5	218.9	218.9	220.6	169.7	142.5	290.1	358.0	334.3	246.0
87.5°	45.8	47.5	66.2	69.6	110.3	76.4	69.6	108.6	169.7	149.3	88.2
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°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1988.5	1961.4	1949.5	1910.5	1900.3	1874.9	1863.0	1847.7	1842.6	1820.6	1840.9
5°	2003.8	1995.3	1947.8	1898.6	1861.3	1844.3	1818.9	1784.9	1781.5	1751.0	1747.6
7.5°	2068.3	2039.5	1956.3	1903.7	1829.1	1786.6	1730.6	1713.7	1691.6	1681.4	1703.5
10°	2168.4	2095.4	1971.6	1839.2	1747.6	1696.7	1656.0	1644.1	1645.8	1639.0	1628.8
12.5°	2239.7	2170.1	1946.1	1784.9	1666.2	1617.0	1613.6	1625.5	1644.1	1635.6	1647.5
15°	2341.5	2210.8	1927.5	1695.0	1600.0	1586.4	1584.7	1620.4	1618.7	1618.7	1617.0
17.5°	2436.5	2251.5	1859.6	1617.0	1530.4	1540.6	1552.5	1550.8	1567.8	1574.6	1586.4
20°	2556.9	2299.0	1764.6	1538.9	1477.8	1474.4	1472.7	1474.4	1491.4	1501.6	1493.1
22.5°	2662.1	2309.2	1684.8	1464.3	1415.1	1401.5	1379.4	1401.5	1393.0	1396.4	1406.6
25°	2753.8	2310.9	1571.2	1408.3	1352.3	1321.7	1304.8	1303.1	1287.8	1286.1	1286.1
27.5°	2830.1	2253.2	1471.1	1330.2	1277.6	1248.8	1247.1	1228.4	1189.4	1163.9	1167.3
30°	2889.5	2209.1	1401.5	1262.4	1211.5	1206.4	1191.1	1148.7	1097.8	1065.5	1065.5
32.5°	2994.7	2120.9	1306.5	1192.8	1167.3	1160.6	1124.9	1087.6	1040.1	1009.5	1004.5
35°	3072.7	2039.5	1243.7	1133.4	1121.5	1108.0	1077.4	1036.7	1023.1	1016.3	1021.4
37.5°	3161.0	1947.8	1167.3	1082.5	1094.4	1068.9	1033.3	1014.6	1062.1	1050.3	1055.4
40°	3301.8	1883.4	1092.7	1052.0	1063.8	1035.0	989.2	982.4	1041.8	999.4	989.2
42.5°	3559.7	1881.7	1046.9	1006.2	1014.6	992.6	951.9	948.5	972.2	921.3	906.0
45°	3880.4	1941.0	1012.9	972.2	965.4	962.0	948.5	933.2	912.8	846.7	829.7
47.5°	4263.8	2037.8	1006.2	921.3	929.8	958.6	941.7	902.7	850.1	807.6	799.2
50°	4728.7	2238.0	989.2	884.0	899.3	945.1	931.5	877.2	829.7	802.5	797.5
52.5°	5242.8	2490.8	967.1	826.3	860.2	933.2	940.0	889.1	819.5	795.8	792.4
55°	5848.6	2864.1	941.7	763.5	814.4	921.3	940.0	855.1	805.9	805.9	802.5
57.5°	7044.8	3536.0	889.1	705.8	773.7	899.3	912.8	856.8	807.6	807.6	800.8
60°	8799.2	4584.5	789.0	661.7	734.7	868.7	892.5	831.4	789.0	799.2	797.5
62.5°	10171.8	4903.5	704.1	619.3	695.7	812.7	865.3	804.2	766.9	804.2	807.6
65°	10465.3	4581.1	617.6	573.5	641.4	758.4	826.3	765.2	734.7	807.6	811.0
66°	10360.1	4330.0	587.1	559.9	617.6	731.3	802.5	751.6	717.7	804.2	805.9
67.5°	9891.8	3953.3	553.1	531.1	585.4	692.3	775.4	733.0	690.6	794.1	778.8
70°	8873.8	3352.7	495.4	480.2	539.6	627.8	712.6	685.5	648.1	731.3	704.1
72.5°	6834.4	2679.1	434.4	436.1	487.0	561.6	649.8	631.2	598.9	641.4	624.4
75°	4162.0	1712.0	378.4	381.8	424.2	498.8	590.5	576.9	537.9	561.6	553.1
77.5°	1844.3	848.4	319.0	325.8	359.7	439.4	514.1	492.0	451.3	456.4	453.0
80°	716.0	402.1	259.6	268.1	290.1	351.2	425.9	405.5	369.9	363.1	359.7
82.5°	344.4	224.0	200.2	203.6	212.1	280.0	366.5	341.0	293.5	263.0	263.0
85°	173.1	139.1	140.8	129.0	140.8	190.0	247.7	207.0	171.4	152.7	156.1
87.5°	69.6	69.6	69.6	59.4	62.8	89.9	115.4	78.0	71.3	42.4	42.4
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)