

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: P478154

Luminaire Tested: **IFLD-S-SA2D-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478154
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

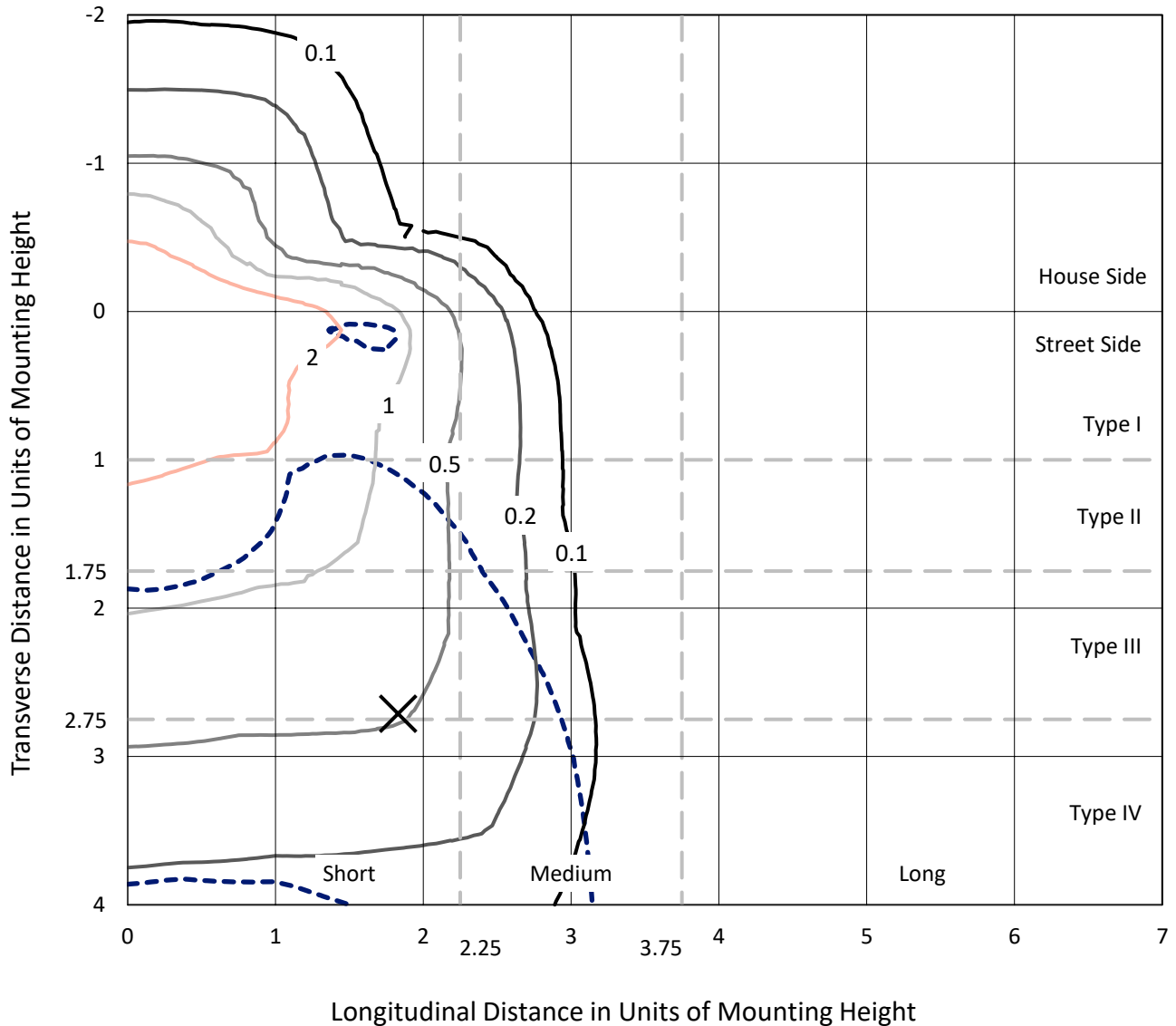
Lumens per Lamp: N/A
Luminaire Lumens: 16022.6 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

REPORT NUMBER: P478154
 CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

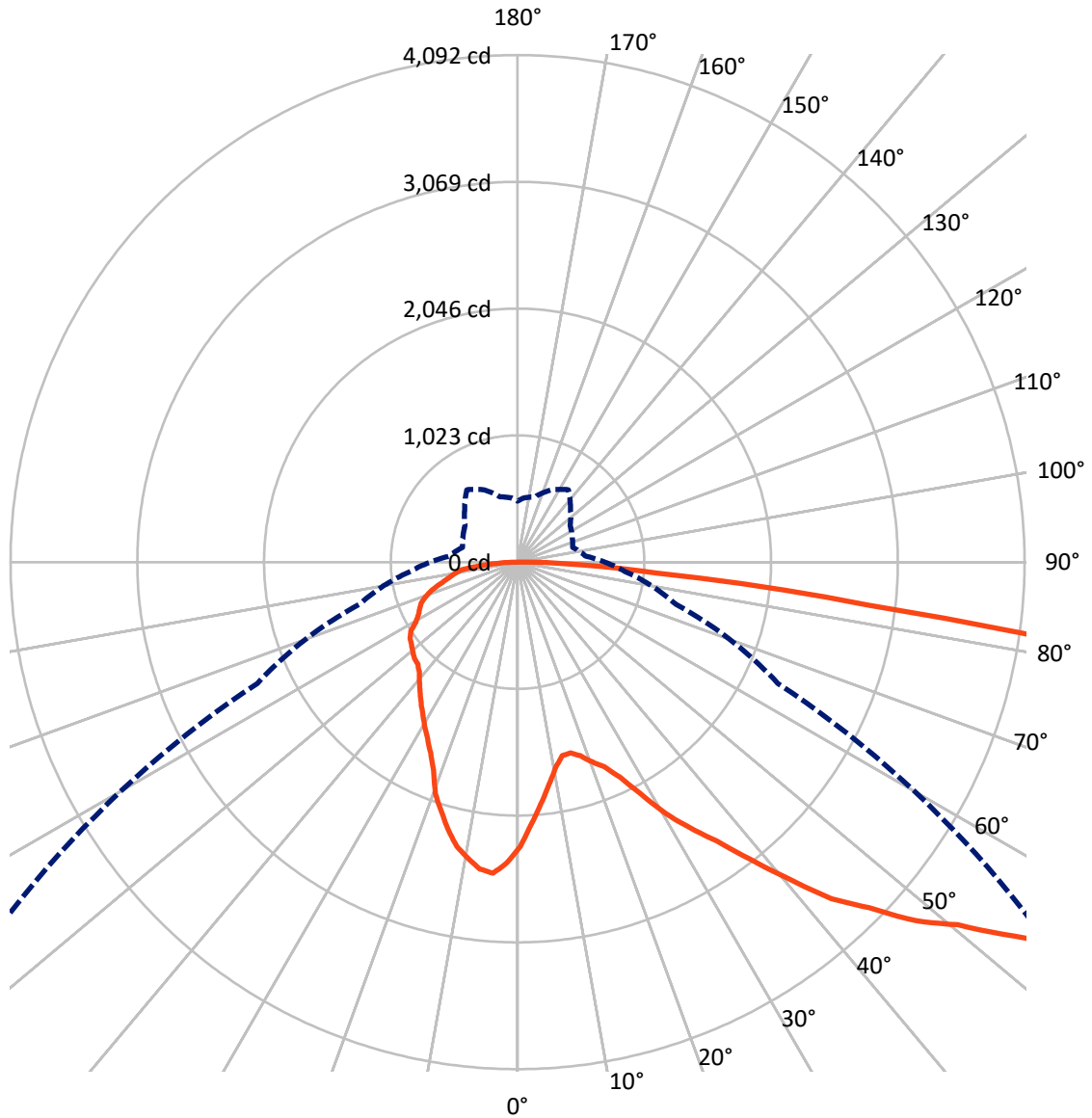
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P478154
CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478154

CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

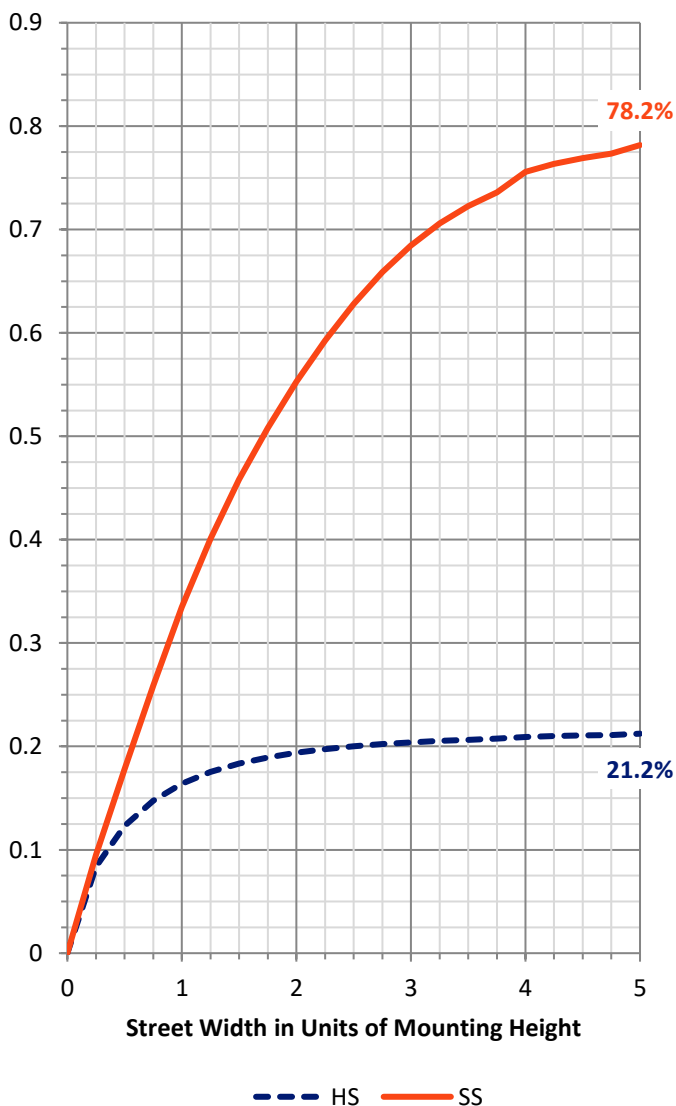
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3461.1	0.0	3461.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12561.5	0.0	12561.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	16022.6	0.0	16022.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.3
10°-20°	593.3	3.7
20°-30°	976.5	6.1
30°-40°	1460.4	9.1
40°-50°	2165.0	13.5
50°-60°	3119.9	19.5
60°-70°	3981.5	24.8
70°-80°	3098.2	19.3
80°-90°	415.7	2.6
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°	16022.6	100.0
0°-180°	16022.6	100.0

Coefficient of Utilization



REPORT NUMBER: P478154

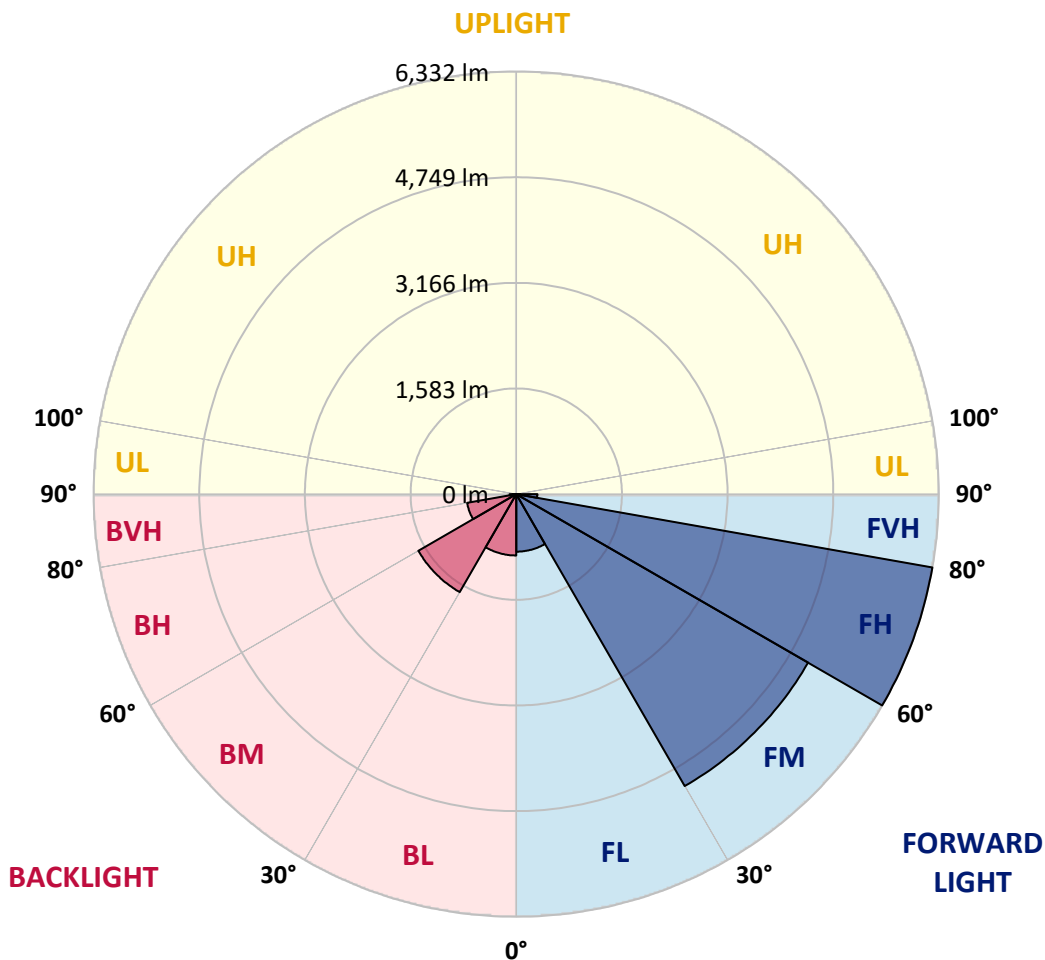
CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.3	5.4			
FM (30°-60°)	5050.4	31.5			
FH (60°-80°)	6332.4	39.5			G3/7500
FVH (80°-90°)	316.4	2.0			G3/500
BL (0°-30°)	919.6	5.7	B2/1000		
BM (30°-60°)	1694.9	10.6	B2/2500		
BH (60°-80°)	747.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	99.3	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-G3

Type IV Short





REPORT NUMBER: P478154

CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
2.5°	2058.2	2065.0	2087.0	2092.1	2115.8	2102.3	2131.1	2181.9	2210.7	2253.0	2303.9
5°	1895.6	1866.8	1880.4	1932.9	1960.0	1966.8	1997.2	2083.6	2137.8	2200.5	2295.4
7.5°	1704.2	1699.1	1726.2	1760.1	1814.3	1819.4	1887.1	1963.4	2075.2	2214.1	2325.9
10°	1573.7	1595.8	1611.0	1646.6	1683.9	1683.9	1770.2	1902.4	2029.4	2163.3	2332.7
12.5°	1567.0	1553.4	1556.8	1575.4	1602.5	1636.4	1717.7	1836.3	1997.2	2153.1	2361.5
15°	1589.0	1594.1	1563.6	1587.3	1597.5	1609.3	1699.1	1832.9	1976.9	2188.7	2410.6
17.5°	1705.9	1677.1	1629.6	1607.6	1643.2	1643.2	1704.2	1809.2	1980.3	2207.3	2481.7
20°	1797.4	1797.4	1719.4	1695.7	1721.1	1716.0	1758.4	1836.3	1997.2	2244.6	2561.4
22.5°	1951.5	1973.5	1844.8	1795.7	1794.0	1807.5	1844.8	1910.8	2044.7	2297.1	2637.6
25°	2173.4	2178.5	2029.4	1978.6	1924.4	1946.4	1953.2	2019.3	2087.0	2358.1	2724.0
27.5°	2420.7	2417.4	2280.1	2153.1	2117.5	2122.6	2085.3	2129.4	2149.7	2376.7	2847.6
30°	2695.2	2664.7	2561.4	2381.8	2353.0	2320.8	2239.5	2237.8	2280.1	2481.7	3018.7
32.5°	2874.7	2835.8	2764.6	2635.9	2556.3	2559.7	2430.9	2429.2	2392.0	2596.9	3167.8
35°	3050.9	2991.6	2973.0	2840.9	2761.2	2769.7	2666.4	2652.8	2585.1	2771.4	3413.4
37.5°	3262.7	3210.2	3239.0	3139.0	3040.8	3000.1	2952.7	2935.7	2847.6	3017.0	3748.9
40°	3496.4	3479.5	3460.9	3411.7	3352.5	3355.8	3305.0	3288.1	3157.6	3313.5	4070.7
42.5°	3811.5	3747.2	3650.6	3682.8	3713.3	3745.5	3728.5	3684.5	3549.0	3615.0	4429.9
45°	4104.6	4019.9	3842.0	3852.2	3977.5	4003.0	4207.9	4202.9	3930.1	3997.9	4838.1
47.5°	4302.8	4263.8	4157.1	4145.3	4324.8	4323.1	4692.4	4692.4	4331.6	4379.0	5276.9
50°	4597.6	4495.9	4450.2	4509.5	4600.9	4663.6	5187.1	5219.3	4726.3	4777.1	5851.1
52.5°	4943.1	4816.1	4700.9	4853.4	5016.0	5056.6	5676.6	5663.1	5029.5	5239.6	6523.7
55°	5229.4	5165.1	5085.4	5173.5	5439.5	5490.3	6167.9	6042.6	5332.8	5622.4	6847.2
57.5°	5563.1	5602.1	5619.0	5597.0	5913.8	5993.4	6728.6	6369.5	5593.6	5879.9	7036.9
60°	6066.3	6090.0	6112.0	6164.5	6499.9	6611.7	7172.5	6779.5	5758.0	6029.0	7052.2
62.5°	6832.0	6740.5	6789.6	6970.9	7240.2	7367.3	7826.4	7067.4	5883.3	6118.8	6554.1
65°	7707.8	7584.1	7533.3	7767.1	8465.0	8363.4	8642.9	7282.6	5702.1	5783.4	5558.1
67.5°	8595.4	8609.0	8478.5	8947.8	9803.3	9803.3	9401.8	7385.9	5210.8	4687.3	3897.9
70°	9300.1	9342.5	9413.6	10323.3	11678.5	11883.5	10342.0	6962.4	4209.6	3120.4	2131.1
72.5°	9290.0	9162.9	9527.1	11202.5	13382.7	13211.6	10538.5	5505.6	2627.4	1528.0	977.4
73°	9081.6	8974.9	9373.0	11194.1	13452.2	13291.2	10394.5	5075.3	2317.4	1324.7	869.0
75°	7416.4	7223.3	7900.9	10138.7	12445.9	12569.6	8830.9	3310.1	1270.5	816.5	611.5
77.5°	3381.3	3466.0	4348.5	6801.5	9591.5	9737.2	5805.4	1431.4	696.2	572.6	450.6
80°	1085.9	1140.1	1692.3	3381.3	6012.1	6274.6	2683.3	650.5	496.3	438.8	337.1
82.5°	415.0	413.3	709.8	1406.0	2849.3	3017.0	980.8	396.4	369.3	323.6	238.9
85°	145.7	152.5	267.7	555.6	1121.4	1174.0	340.5	220.2	255.8	216.8	137.2
87.5°	50.8	52.5	94.9	201.6	386.2	408.3	94.9	88.1	127.1	125.4	69.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478154
 CATALOG NUMBER: IFLD-S-SA2D-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
2.5°	2320.8	2336.0	2341.1	2402.1	2402.1	2402.1	2425.8	2425.8	2419.1	2402.1	2442.8
5°	2331.0	2358.1	2410.6	2463.1	2476.7	2488.5	2520.7	2493.6	2503.8	2486.8	2502.1
7.5°	2359.8	2397.0	2495.3	2527.5	2505.4	2530.9	2497.0	2478.3	2459.7	2466.5	2442.8
10°	2408.9	2456.3	2502.1	2561.4	2519.0	2493.6	2424.1	2407.2	2347.9	2327.6	2346.2
12.5°	2469.9	2527.5	2605.4	2583.4	2502.1	2429.2	2354.7	2283.5	2248.0	2197.1	2210.7
15°	2530.9	2596.9	2608.8	2571.5	2469.9	2378.4	2242.9	2142.9	2107.4	2061.6	2085.3
17.5°	2596.9	2659.6	2639.3	2542.7	2405.5	2266.6	2112.4	2014.2	1939.6	1910.8	1910.8
20°	2695.2	2725.7	2693.5	2495.3	2327.6	2144.6	1995.6	1883.7	1809.2	1797.4	1778.7
22.5°	2771.4	2820.5	2676.5	2425.8	2214.1	1985.4	1814.3	1771.9	1749.9	1731.3	1707.6
25°	2869.7	2868.0	2646.1	2361.5	2019.3	1795.7	1692.3	1688.9	1678.8	1672.0	1704.2
27.5°	2962.8	2923.9	2610.5	2202.2	1817.7	1651.7	1595.8	1633.0	1648.3	1638.1	1651.7
30°	3110.2	3045.8	2559.7	2032.8	1639.8	1506.0	1516.1	1567.0	1592.4	1607.6	1587.3
32.5°	3266.1	3167.8	2454.6	1856.6	1482.3	1414.5	1438.2	1490.7	1521.2	1538.2	1556.8
35°	3491.4	3262.7	2347.9	1626.3	1368.8	1358.6	1372.2	1401.0	1445.0	1456.9	1461.9
37.5°	3769.2	3406.7	2203.9	1441.6	1280.7	1292.5	1306.1	1316.3	1317.9	1340.0	1331.5
40°	4047.0	3528.6	1993.9	1265.4	1189.2	1253.6	1246.8	1228.2	1212.9	1192.6	1187.5
42.5°	4290.9	3635.4	1760.1	1116.4	1107.9	1212.9	1190.9	1143.5	1107.9	1092.6	1067.2
45°	4565.4	3786.1	1524.6	1023.2	1045.2	1163.8	1157.0	1084.2	1038.4	984.2	977.4
47.5°	4921.1	3943.7	1299.3	926.6	985.9	1145.2	1148.5	1055.4	989.3	916.5	906.3
50°	5376.8	4170.7	1128.2	886.0	950.3	1118.1	1123.1	1016.4	930.0	855.5	848.7
52.5°	5813.9	4402.7	985.9	823.3	926.6	1085.9	1097.7	980.8	880.9	787.7	792.8
55°	6034.1	4318.0	863.9	777.6	872.4	1033.3	1077.4	955.4	806.4	742.0	740.3
57.5°	6083.2	4109.7	767.4	730.1	826.7	977.4	1043.5	879.2	772.5	718.3	711.5
60°	5922.3	3745.5	691.2	679.3	769.1	919.9	965.6	838.5	738.6	694.5	684.4
62.5°	5525.9	3367.7	638.6	655.6	720.0	857.2	916.5	809.7	706.4	675.9	653.9
65°	4531.5	2769.7	596.3	609.8	669.1	796.2	886.0	777.6	677.6	648.8	647.1
67.5°	3139.0	1909.2	562.4	587.8	628.5	752.1	855.5	742.0	640.3	630.2	616.6
70°	1607.6	1018.1	518.4	538.7	584.4	696.2	801.3	704.7	601.4	599.7	582.7
72.5°	814.8	596.3	467.5	498.0	530.2	623.4	733.5	655.6	552.2	533.6	506.5
73°	704.7	552.2	459.1	486.2	516.7	603.1	713.2	643.7	545.5	518.4	493.0
75°	513.3	435.4	411.6	438.8	462.5	543.8	645.4	589.5	501.4	472.6	448.9
77.5°	384.5	335.4	342.2	372.7	393.0	469.2	574.3	533.6	454.0	415.0	404.9
80°	282.9	255.8	282.9	311.7	326.9	413.3	523.5	462.5	382.8	338.8	330.3
82.5°	201.6	186.3	218.5	237.2	243.9	342.2	470.9	369.3	289.7	232.1	213.4
85°	115.2	113.5	147.4	145.7	150.8	199.9	310.0	245.6	186.3	142.3	138.9
87.5°	50.8	55.9	74.5	59.3	62.7	94.9	132.1	91.5	76.2	42.4	32.2
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)