

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: P480925

Luminaire Tested: **IFLD-S-SA3A-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480925
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

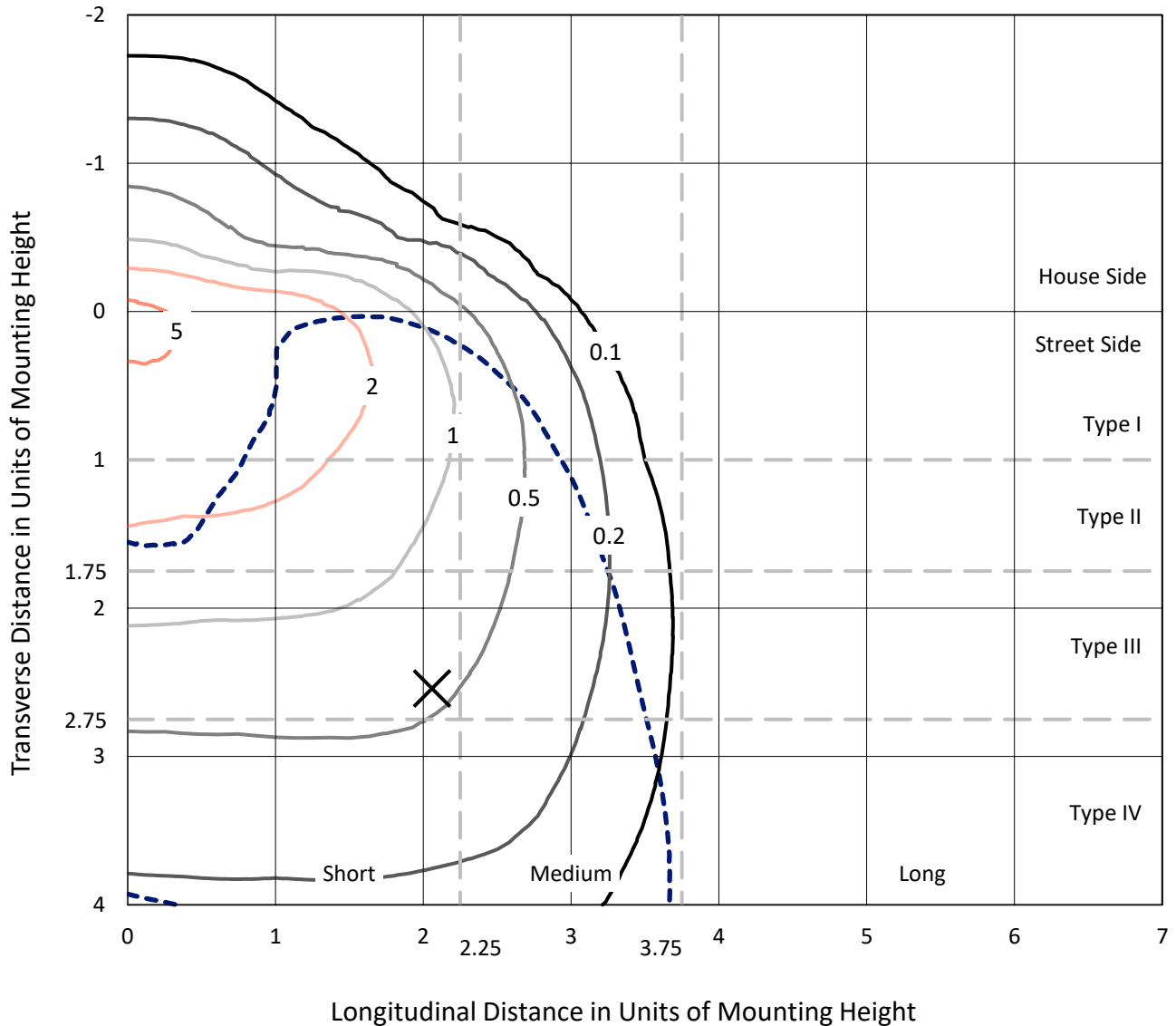
Lumens per Lamp: N/A
Luminaire Lumens: 13613.1 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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: P480925
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

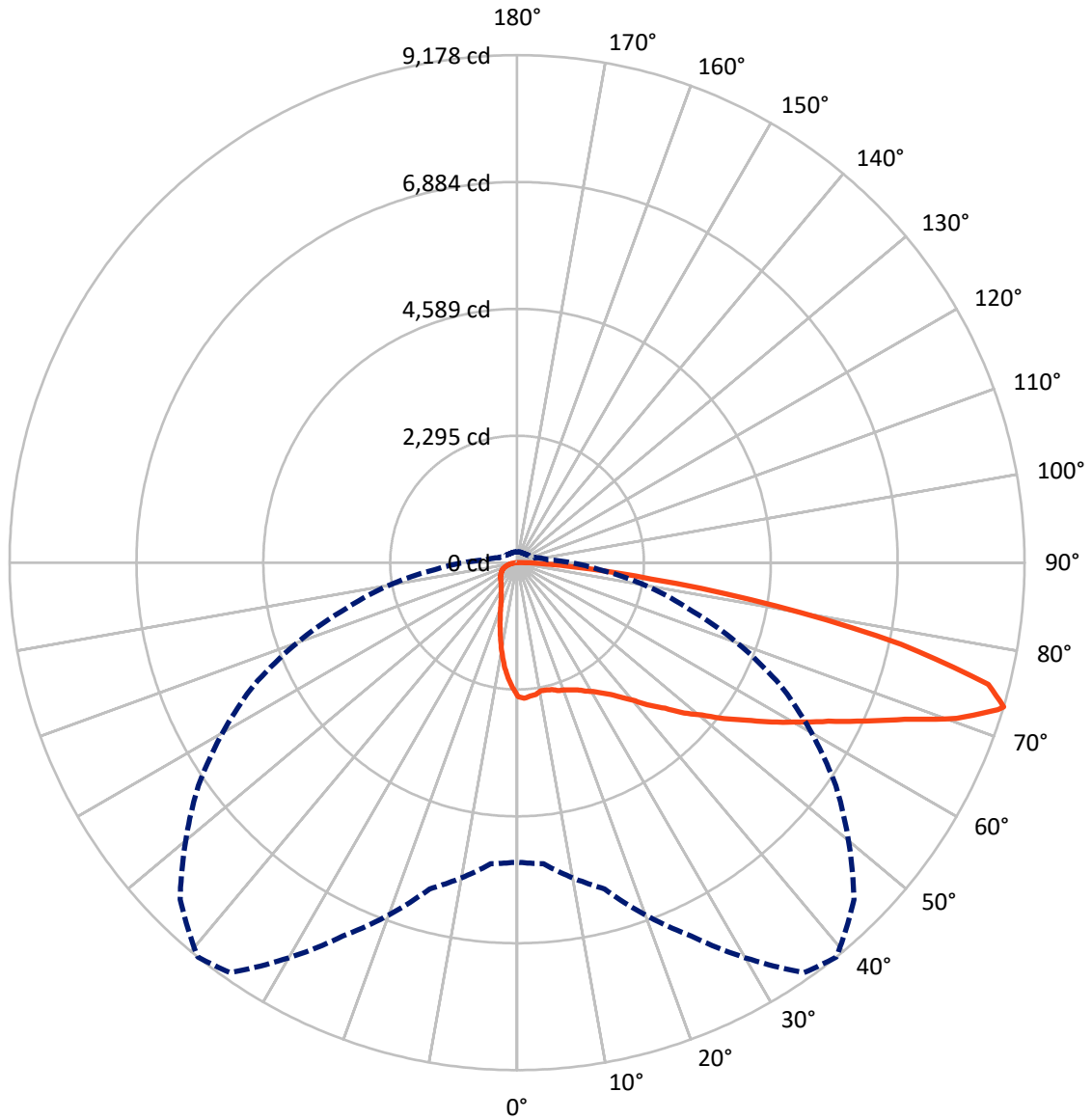
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P480925
CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480925
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

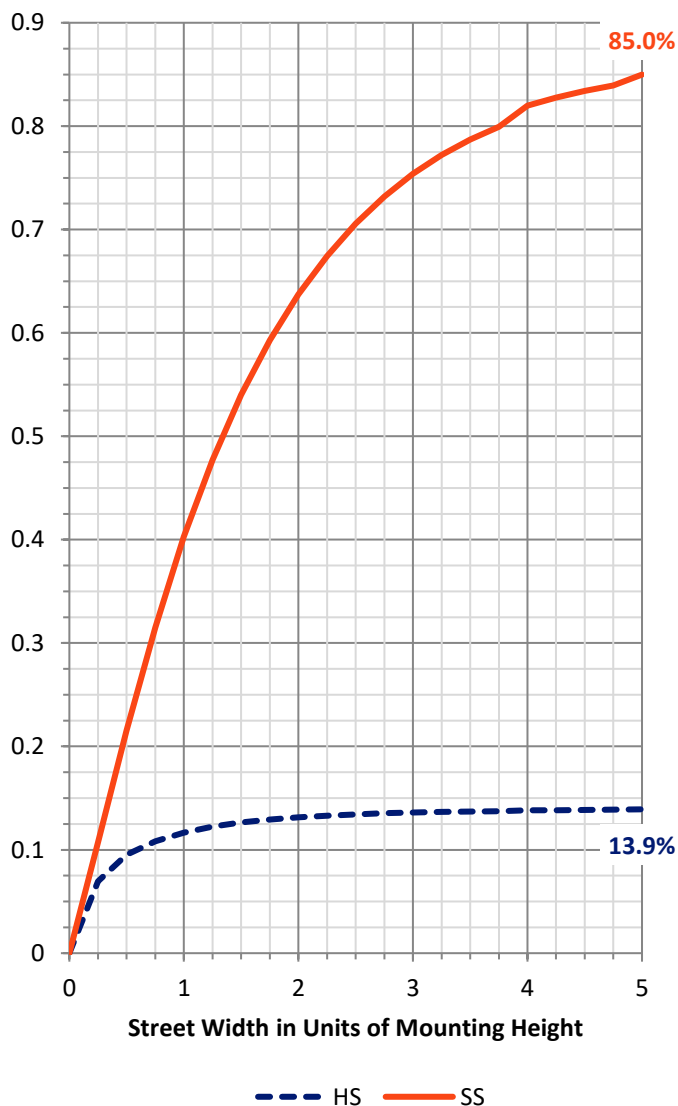
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1913.6	0.0	1913.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11699.5	0.0	11699.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	13613.1	0.0	13613.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.5
10°-20°	534.7	3.9
20°-30°	817.2	6.0
30°-40°	1191.4	8.8
40°-50°	1800.4	13.2
50°-60°	2607.1	19.2
60°-70°	3312.4	24.3
70°-80°	2685.2	19.7
80°-90°	454.3	3.3
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°	13613.1	100.0
0°-180°	13613.1	100.0

Coefficient of Utilization



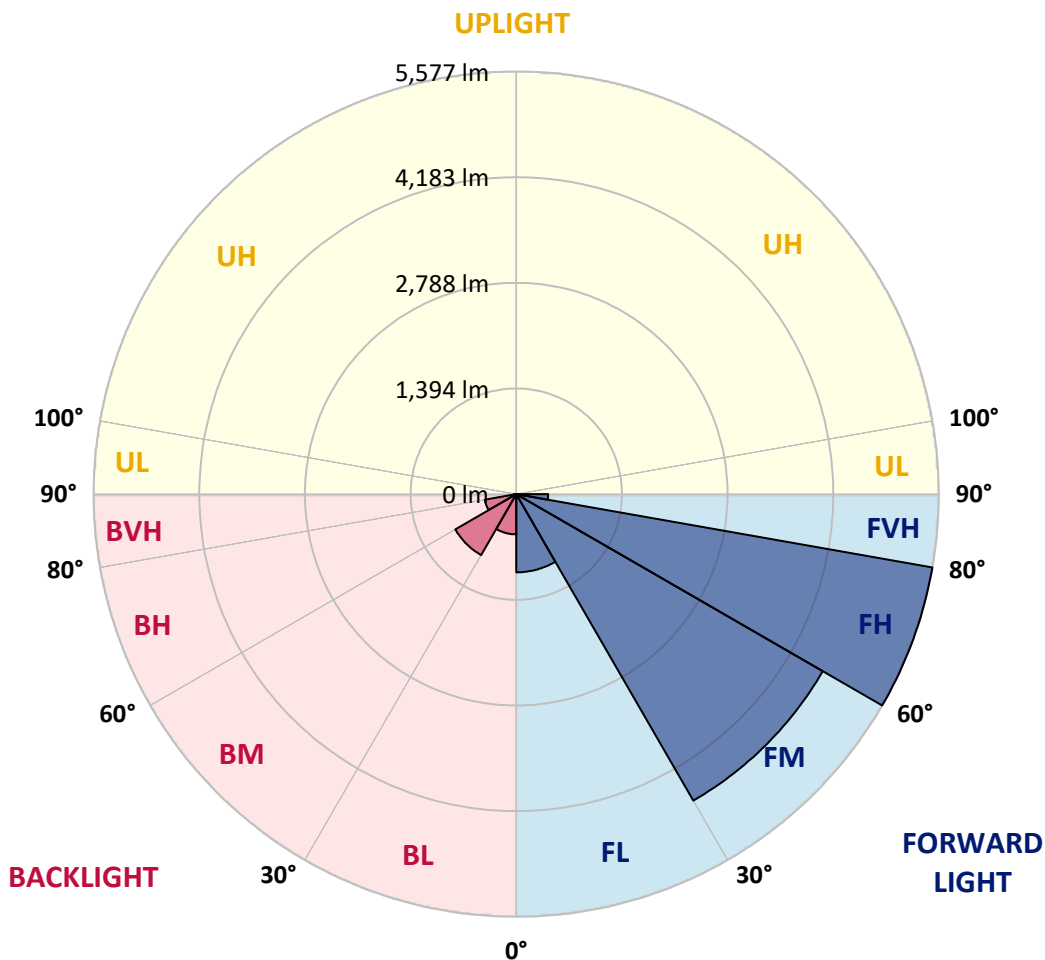
REPORT NUMBER: P480925
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.6	7.6			
FM (30°-60°)	4670.2	34.3			
FH (60°-80°)	5576.7	41.0			G3/7500
FVH (80°-90°)	421.0	3.1			G3/500
BL (0°-30°)	530.7	3.9	B2/1000		
BM (30°-60°)	928.7	6.8	B1/1000		
BH (60°-80°)	420.9	3.1	B1/500		G1/500
BVH (80°-90°)	33.3	0.2			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: P480925
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2
2.5°	2481.1	2455.2	2459.8	2450.6	2459.8	2456.7	2452.2	2429.3	2452.2	2429.3	2423.2
5°	2447.6	2447.6	2462.8	2440.0	2443.0	2427.8	2443.0	2426.3	2411.0	2373.0	2362.3
7.5°	2436.9	2435.4	2436.9	2404.9	2420.2	2411.0	2395.8	2377.5	2347.1	2322.7	2287.7
10°	2363.8	2379.0	2362.3	2371.4	2383.6	2356.2	2354.7	2350.1	2336.4	2304.4	2283.1
12.5°	2324.2	2350.1	2359.2	2351.6	2362.3	2365.3	2356.2	2350.1	2333.4	2312.0	2251.1
15°	2341.0	2310.5	2336.4	2386.7	2376.0	2383.6	2385.1	2379.0	2371.4	2331.8	2292.2
17.5°	2345.5	2327.3	2382.1	2392.8	2406.5	2433.9	2415.6	2414.1	2385.1	2357.7	2299.8
20°	2356.2	2348.6	2392.8	2449.1	2450.6	2455.2	2464.3	2441.5	2426.3	2379.0	2290.7
22.5°	2395.8	2421.7	2462.8	2487.2	2500.9	2503.9	2503.9	2458.2	2441.5	2403.4	2333.4
25°	2514.6	2487.2	2545.1	2574.0	2554.2	2549.6	2539.0	2497.8	2479.6	2446.1	2353.2
27.5°	2601.4	2599.9	2633.4	2673.0	2619.7	2630.4	2592.3	2580.1	2539.0	2520.7	2388.2
30°	2720.2	2753.7	2752.2	2764.4	2694.3	2706.5	2657.8	2634.9	2612.1	2622.7	2491.8
32.5°	2872.5	2860.3	2880.1	2871.0	2800.9	2811.6	2753.7	2718.7	2726.3	2758.3	2633.4
35°	2970.0	2957.8	2965.4	2965.4	2944.1	2931.9	2907.6	2861.9	2898.4	2957.8	2791.8
37.5°	3075.1	3090.3	3134.5	3125.4	3097.9	3097.9	3094.9	3062.9	3110.1	3256.3	3044.6
40°	3168.0	3209.1	3236.5	3254.8	3286.8	3286.8	3312.7	3294.4	3379.7	3614.3	3353.8
42.5°	3265.5	3267.0	3416.3	3430.0	3501.6	3532.0	3551.8	3567.0	3727.0	3988.9	3684.3
45°	3390.4	3398.0	3529.0	3634.1	3745.2	3755.9	3830.5	3880.8	4077.3	4398.6	4043.8
47.5°	3554.9	3545.7	3685.8	3853.4	3992.0	4065.1	4155.0	4209.8	4452.0	4843.4	4436.7
50°	3771.1	3743.7	3824.4	4087.9	4250.9	4331.6	4491.6	4582.9	4866.2	5268.3	4706.3
52.5°	4034.6	3988.9	4052.9	4340.8	4523.5	4686.5	4838.8	4940.9	5236.3	5597.3	4905.8
55°	4313.4	4218.9	4237.2	4608.8	4872.3	5026.2	5234.8	5341.4	5643.0	5892.8	5105.4
57.5°	4589.0	4529.6	4493.1	4866.2	5288.1	5435.9	5627.8	5766.4	6022.2	6154.8	5274.4
60°	4820.5	4805.3	4745.9	5265.3	5728.3	5854.7	6055.8	6141.0	6334.5	6396.9	5277.5
62.5°	5010.9	4959.1	5053.6	5586.6	6176.1	6319.2	6540.1	6547.7	6684.8	6547.7	5122.1
65°	5160.2	5163.2	5314.0	5975.0	6693.9	6905.6	7083.8	7064.0	6975.7	6457.8	4755.0
67.5°	5295.7	5353.6	5574.5	6401.5	7359.5	7559.0	7757.0	7495.1	7054.9	6037.5	4037.7
70°	5402.4	5460.2	5926.3	6920.9	8143.9	8436.3	8480.5	7665.6	6690.9	5114.5	3046.2
72.5°	5390.2	5495.3	6125.8	7335.1	8839.9	9092.8	8736.4	7185.9	5574.5	3565.5	1777.4
73°	5416.1	5467.8	6109.1	7450.9	9051.6	9178.1	8617.6	7035.1	5257.7	3198.5	1503.3
75°	4916.5	5091.6	5806.0	7262.0	8824.7	8801.9	7935.2	5862.3	3737.6	1680.0	728.0
77.5°	3637.1	3748.3	4575.3	5972.0	7243.8	7097.5	5985.7	3746.8	1774.4	622.9	393.0
80°	1777.4	1864.2	2424.7	3448.2	4736.8	4749.0	3714.8	1949.5	760.0	351.8	268.1
82.5°	888.0	939.7	1165.2	1515.5	2330.3	2441.5	1884.0	1108.8	470.6	199.5	152.3
85°	580.3	616.8	717.4	741.7	988.5	1043.3	877.3	865.1	306.1	108.1	123.4
87.5°	385.3	391.4	440.2	374.7	396.0	380.8	423.4	545.3	89.9	45.7	33.5
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: P480925
 CATALOG NUMBER: IFLD-S-SA3A-750-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2	2423.2
2.5°	2415.6	2394.3	2371.4	2339.4	2316.6	2281.6	2249.6	2235.9	2232.8	2234.4	2219.1
5°	2353.2	2322.7	2277.0	2211.5	2173.4	2115.6	2066.8	2040.9	2013.5	2018.1	2005.9
7.5°	2266.3	2232.8	2162.8	2086.6	1992.2	1909.9	1864.2	1800.3	1763.7	1736.3	1751.5
10°	2238.9	2181.0	2076.0	1970.9	1824.6	1716.5	1611.4	1538.3	1488.0	1439.3	1460.6
12.5°	2225.2	2167.3	2021.1	1865.8	1676.9	1512.4	1364.7	1274.8	1203.2	1160.6	1177.3
15°	2213.0	2141.4	1969.3	1750.0	1538.3	1322.0	1156.0	1037.2	968.7	927.6	932.1
17.5°	2229.8	2127.7	1893.2	1637.3	1386.0	1154.5	970.2	846.8	776.8	750.9	744.8
20°	2213.0	2112.5	1818.6	1524.6	1233.7	994.6	817.9	715.8	667.1	645.8	641.2
22.5°	2219.1	2076.0	1740.9	1399.7	1092.0	860.5	715.8	638.2	600.1	589.4	592.5
25°	2248.1	2054.6	1663.2	1262.6	951.9	761.5	650.4	591.0	563.5	552.9	555.9
27.5°	2269.4	2072.9	1593.1	1133.2	833.1	673.2	595.5	555.9	537.6	530.0	528.5
30°	2322.7	2083.6	1524.6	1017.4	735.6	615.3	557.4	525.5	513.3	508.7	507.2
32.5°	2401.9	2103.4	1445.4	910.8	664.1	560.5	527.0	499.6	496.5	492.0	493.5
35°	2531.4	2171.9	1357.1	819.4	595.5	523.9	495.0	476.7	476.7	476.7	481.3
37.5°	2717.2	2267.9	1277.9	732.6	551.4	492.0	467.6	461.5	458.4	463.0	466.1
40°	2956.3	2383.6	1213.9	664.1	513.3	470.6	449.3	446.3	444.7	443.2	446.3
42.5°	3218.3	2531.4	1159.1	610.8	485.9	447.8	432.6	429.5	423.4	426.5	431.0
45°	3478.7	2714.1	1110.3	568.1	467.6	435.6	414.3	412.8	409.7	408.2	415.8
47.5°	3768.1	2893.8	1095.1	542.2	453.9	417.3	402.1	400.6	391.4	389.9	396.0
50°	3993.5	3026.4	1111.8	530.0	434.1	403.6	393.0	385.3	377.7	370.1	370.1
52.5°	4148.9	3117.7	1124.0	520.9	423.4	385.3	371.6	368.6	361.0	353.4	350.3
55°	4289.0	3172.6	1127.1	522.4	412.8	364.0	354.9	353.4	348.8	336.6	333.6
57.5°	4336.2	3149.7	1066.2	508.7	406.7	350.3	338.1	341.2	335.1	324.4	322.9
60°	4331.6	2991.3	927.6	490.4	393.0	335.1	319.8	329.0	329.0	316.8	315.3
62.5°	4068.1	2625.8	758.5	455.4	377.7	319.8	303.1	316.8	321.4	313.8	312.2
65°	3521.4	2138.4	633.6	420.4	354.9	303.1	286.3	301.6	309.2	306.1	304.6
67.5°	2913.6	1635.8	527.0	374.7	325.9	280.2	266.5	277.2	281.8	283.3	284.8
70°	2059.2	1089.0	440.2	324.4	286.3	255.9	240.6	242.2	240.6	245.2	245.2
72.5°	1119.5	627.5	357.9	275.7	246.7	222.4	211.7	204.1	204.1	202.6	202.6
73°	958.0	563.5	341.2	268.1	236.1	216.3	204.1	198.0	198.0	196.5	195.0
75°	537.6	412.8	292.4	230.0	204.1	188.9	179.7	170.6	169.1	169.1	169.1
77.5°	353.4	321.4	233.0	184.3	164.5	150.8	147.7	138.6	138.6	138.6	137.1
80°	265.0	252.8	179.7	140.1	126.4	115.8	112.7	106.6	105.1	99.0	100.5
82.5°	176.7	199.5	131.0	99.0	85.3	79.2	79.2	77.7	73.1	65.5	65.5
85°	140.1	163.0	94.4	60.9	50.3	42.6	44.2	42.6	41.1	33.5	32.0
87.5°	25.9	65.5	27.4	16.8	12.2	7.6	7.6	4.6	3.0	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)