

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: P476462

Luminaire Tested: **IFLD-M-SA4C-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

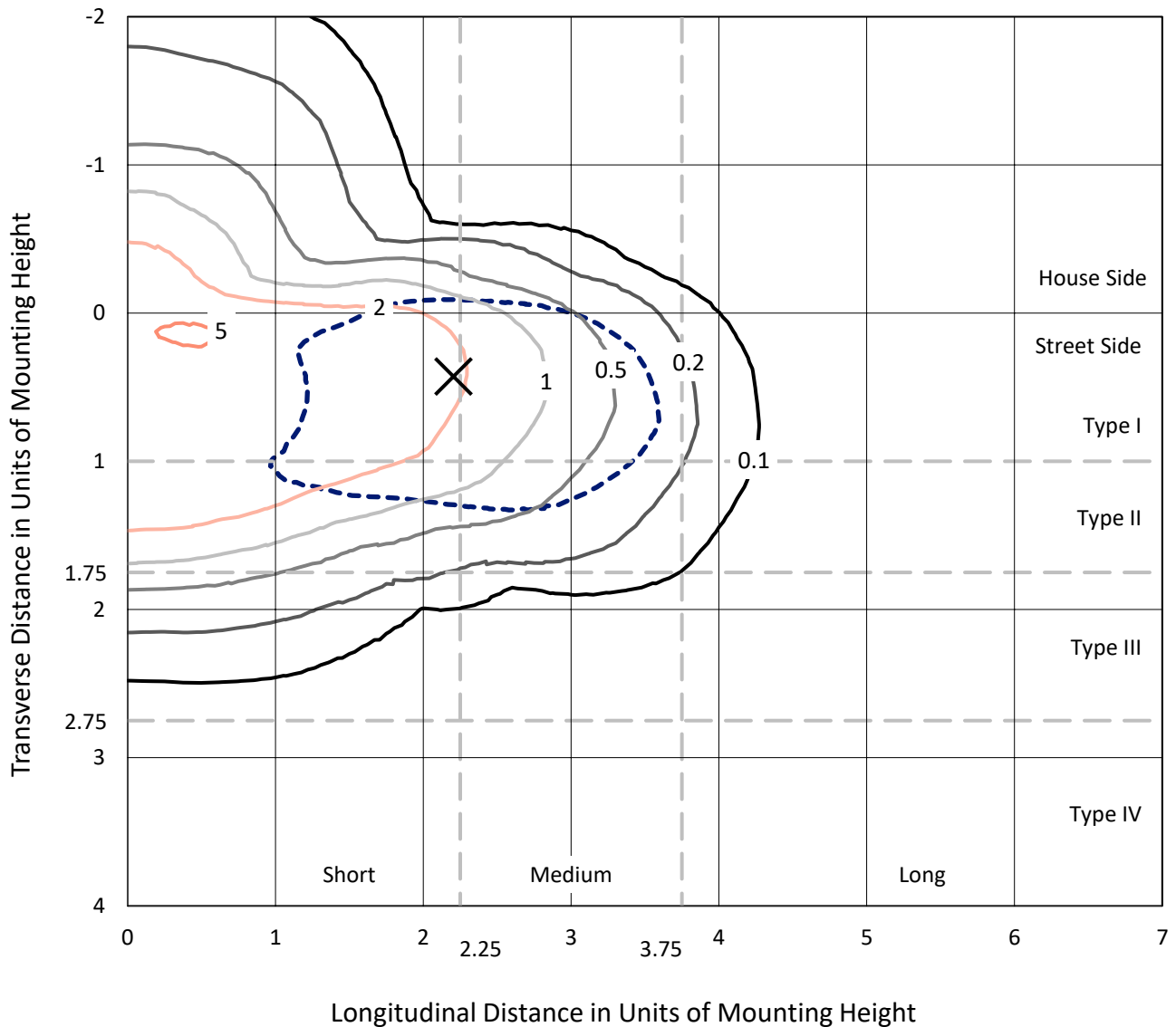
Lumens per Lamp: N/A
Luminaire Lumens: 20917.5 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

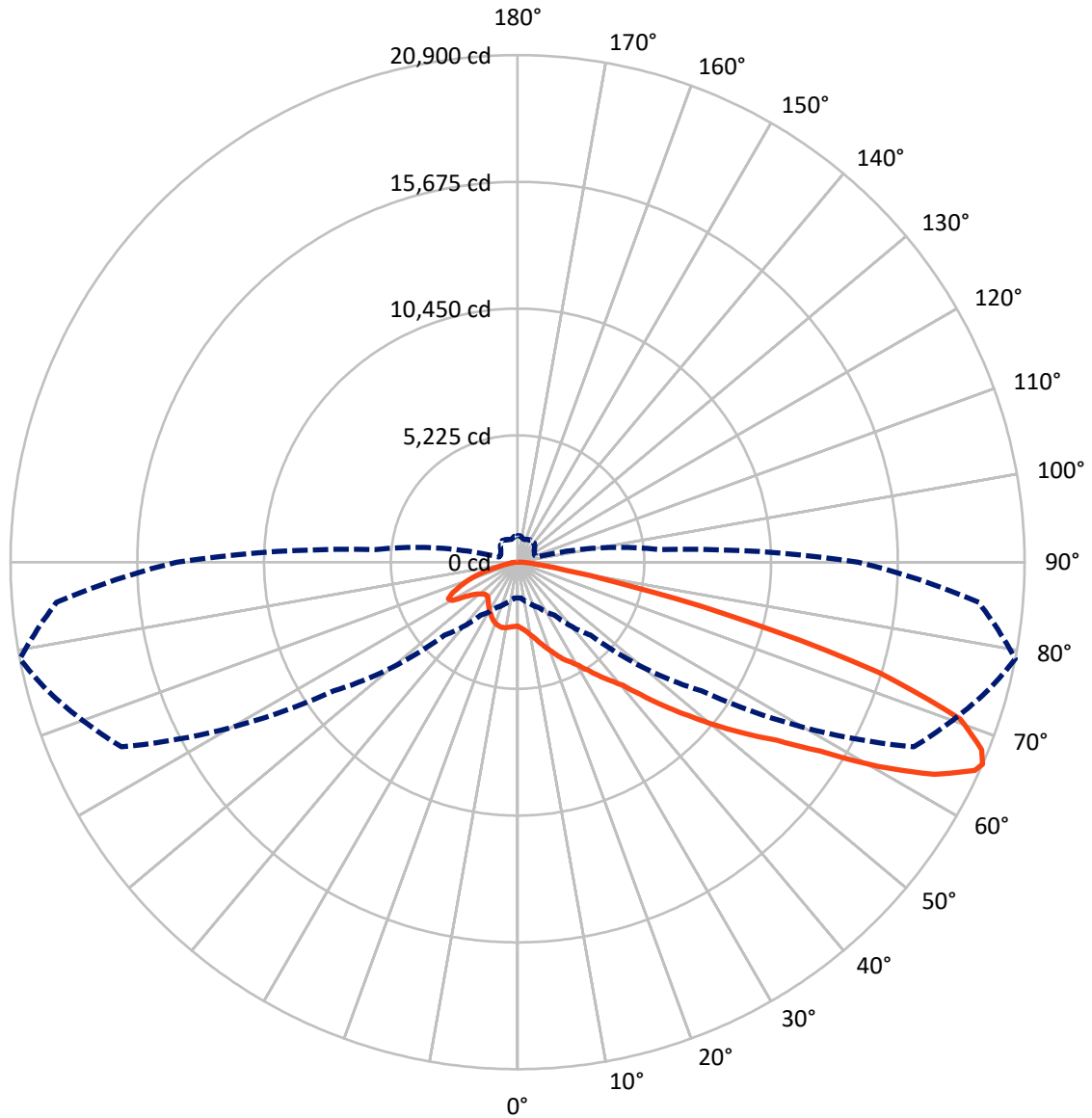
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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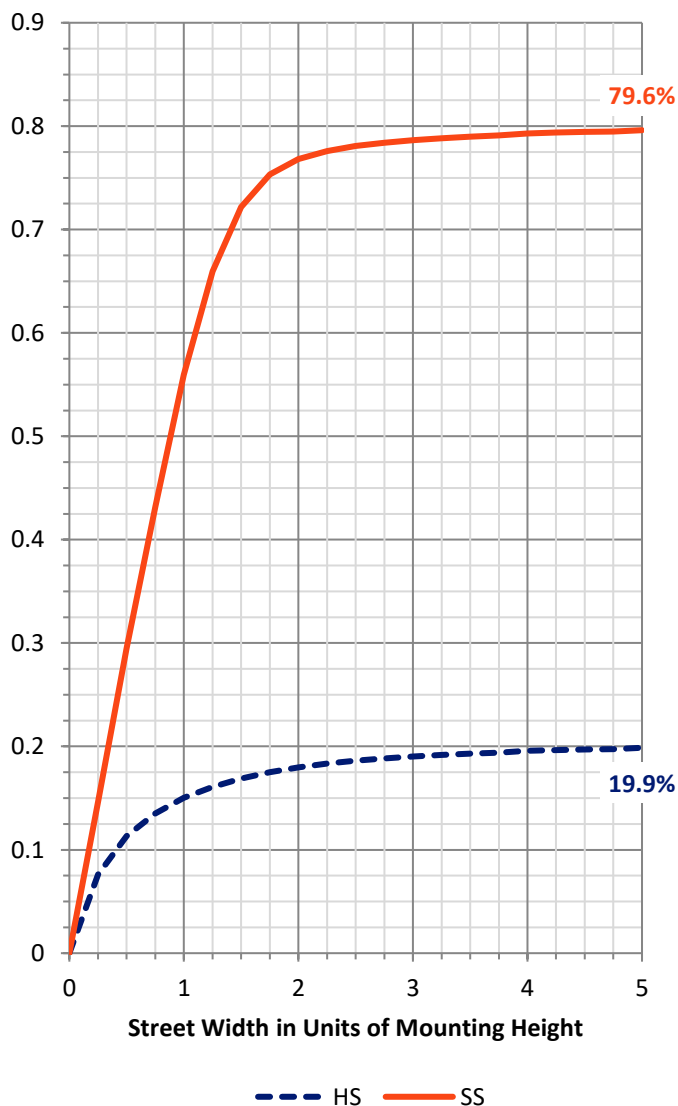
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4224.0	0.0	4224.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16693.5	0.0	16693.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	20917.5	0.0	20917.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	1.2
10°-20°	802.0	3.8
20°-30°	1376.7	6.6
30°-40°	2126.7	10.2
40°-50°	3406.4	16.3
50°-60°	5085.9	24.3
60°-70°	5225.8	25.0
70°-80°	2316.5	11.1
80°-90°	317.8	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°	20917.5	100.0
0°-180°	20917.5	100.0

Coefficient of Utilization

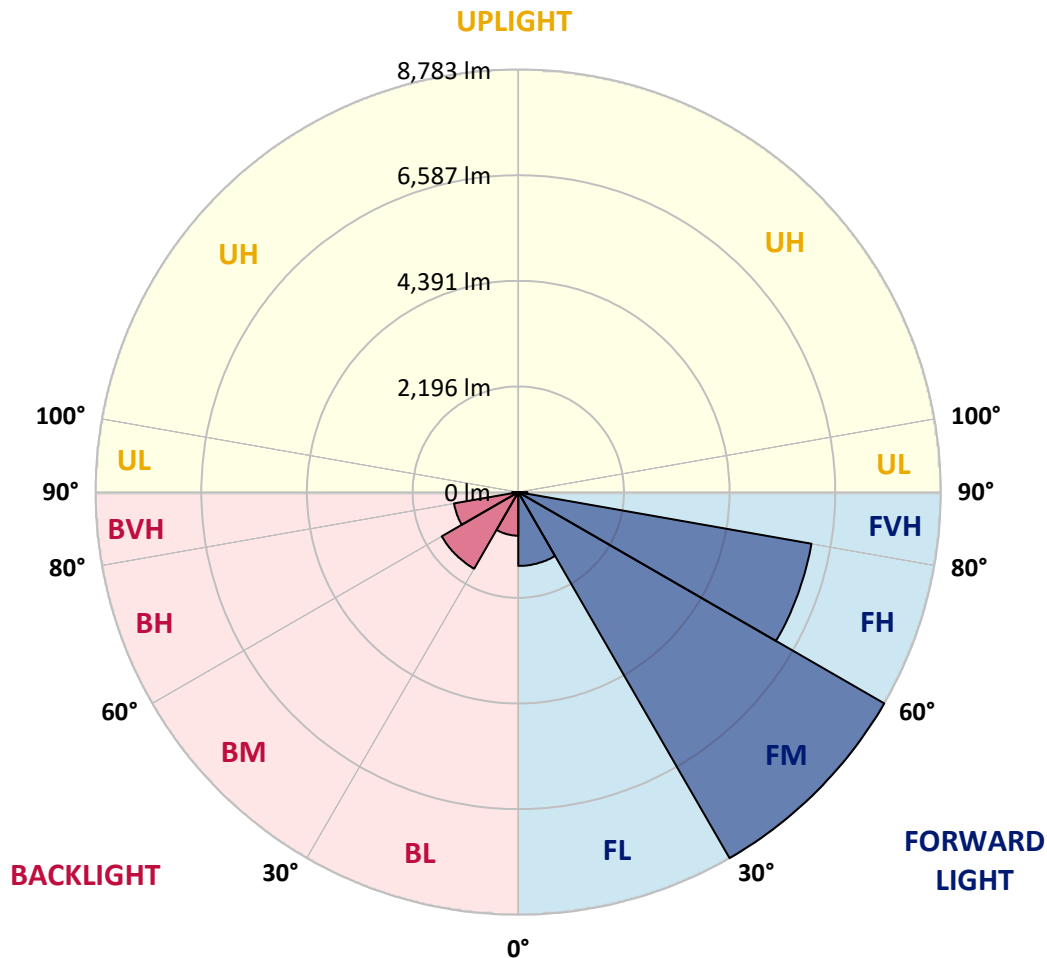


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.4	7.3			
FM (30°-60°)	8782.6	42.0			
FH (60°-80°)	6186.9	29.6			G3/7500
FVH (80°-90°)	190.6	0.9			G2/225
BL (0°-30°)	905.0	4.3	B2/1000		
BM (30°-60°)	1836.4	8.8	B2/2500		
BH (60°-80°)	1355.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	127.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3
2.5°	2809.3	2811.6	2811.6	2802.4	2804.7	2811.6	2786.2	2731.0	2731.0	2721.8	2705.7
5°	2981.8	2970.3	2954.2	2956.5	2947.3	2947.3	2919.7	2866.8	2820.8	2802.4	2754.0
7.5°	3004.8	3016.3	3014.0	3041.6	3055.4	3055.4	3069.2	3025.5	2956.5	2912.8	2864.5
10°	3050.8	3020.9	3018.6	3083.1	3103.8	3152.1	3207.3	3184.3	3126.8	3064.6	3000.2
12.5°	3078.4	3096.9	3096.9	3129.1	3177.4	3248.7	3345.3	3389.1	3299.3	3234.9	3136.0
15°	3119.9	3094.6	3168.2	3195.8	3287.8	3338.4	3476.5	3589.2	3529.4	3451.2	3294.7
17.5°	3138.3	3122.2	3163.6	3214.2	3370.6	3446.6	3614.5	3771.0	3720.4	3669.8	3508.7
20°	3232.6	3230.3	3248.7	3290.1	3402.9	3552.4	3761.8	3978.1	3996.5	3904.4	3685.9
22.5°	3462.7	3432.8	3432.8	3416.7	3465.0	3619.1	3902.1	4201.2	4284.1	4175.9	3886.0
25°	3674.4	3715.8	3690.5	3616.8	3598.4	3679.0	4003.4	4438.2	4548.7	4447.4	4157.5
27.5°	3945.8	3959.6	4003.4	3904.4	3777.9	3803.2	4113.8	4571.7	4799.4	4663.7	4311.7
30°	4337.0	4311.7	4302.5	4192.0	4026.4	3991.9	4240.3	4767.2	5128.4	4937.5	4493.4
32.5°	4601.6	4663.7	4661.4	4509.5	4309.4	4233.4	4396.8	4951.3	5480.5	5303.3	4829.3
35°	5126.1	5190.6	5140.0	4916.8	4682.1	4530.2	4622.3	5190.6	5883.1	5745.1	5114.6
37.5°	5795.7	5947.5	5839.4	5427.5	5096.2	4930.6	4935.2	5450.6	6294.9	6182.2	5420.6
40°	6258.1	6462.9	6313.4	5926.8	5574.8	5418.3	5356.2	5758.9	6787.3	6667.7	5899.2
42.5°	6831.0	7001.3	6923.1	6541.1	6129.3	5995.8	5871.6	6274.2	7539.7	7484.5	6513.5
45°	7456.8	7537.4	7512.1	7270.5	6812.6	6766.6	6492.8	6953.0	8425.5	8448.5	7282.0
47.5°	8038.9	8082.7	8131.0	7956.1	7670.8	7709.9	7208.4	7680.0	9286.0	9437.8	8137.9
50°	8188.5	8338.0	8450.8	8568.1	8630.2	8894.8	7997.5	8572.7	10275.3	10569.8	9090.4
52.5°	8036.6	8025.1	8368.0	8736.1	9357.3	9911.8	9072.0	9681.7	11149.6	11731.7	9962.4
55°	7346.4	7323.4	7875.6	8363.4	9575.9	10477.8	10606.6	11158.8	12205.7	12962.6	11142.7
57.5°	6138.5	5995.8	6598.6	7399.3	9101.9	10539.9	12148.1	13351.5	13830.0	14692.8	12944.2
60°	4125.3	4065.5	4643.0	5597.8	7390.1	9658.7	13070.8	16096.3	16119.3	17090.2	15739.7
62.5°	2540.1	2551.6	2922.0	3637.5	5174.5	7657.0	12672.7	18288.9	18293.5	19266.8	18040.4
65°	1661.2	1668.1	1967.2	2362.9	3232.6	5192.9	10480.1	18461.5	19805.2	20709.4	19094.2
66°	1479.4	1481.7	1739.4	2061.5	2678.1	4249.5	9256.1	18012.8	20145.7	20900.3	19080.4
67.5°	1247.0	1276.9	1484.0	1732.5	2089.1	3053.1	7344.1	16715.2	19970.8	20633.4	18647.9
70°	975.5	991.6	1155.0	1408.1	1566.8	1767.0	4364.6	13625.2	18279.7	19354.2	17074.1
72.5°	782.3	796.1	920.3	1143.5	1272.3	1164.2	2376.7	9886.5	14439.7	15585.5	13429.7
75°	660.3	662.6	722.4	899.6	1046.9	874.3	1265.4	6345.6	9265.3	9799.0	8227.6
77.5°	533.8	543.0	584.4	685.6	842.1	687.9	754.7	3554.7	4652.2	4691.3	3803.2
80°	434.8	439.4	464.8	499.3	641.9	508.5	510.8	1734.8	1994.8	1948.8	1546.1
82.5°	342.8	347.4	377.3	370.4	471.7	363.5	317.5	835.2	918.0	899.6	710.9
85°	193.3	193.3	296.8	296.8	299.1	230.1	193.3	393.4	485.5	453.3	333.6
87.5°	62.1	64.4	89.7	94.3	149.6	103.5	94.3	147.3	230.1	202.5	119.6
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°	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3	2641.3
2.5°	2696.5	2659.7	2643.6	2590.7	2576.9	2542.4	2526.3	2505.6	2498.7	2468.7	2496.4
5°	2717.2	2705.7	2641.3	2574.6	2524.0	2501.0	2466.4	2420.4	2415.8	2374.4	2369.8
7.5°	2804.7	2765.5	2652.8	2581.5	2480.2	2422.7	2346.8	2323.8	2293.9	2280.1	2310.0
10°	2940.4	2841.5	2673.5	2494.1	2369.8	2300.8	2245.6	2229.5	2231.8	2222.6	2208.8
12.5°	3037.0	2942.7	2639.0	2420.4	2259.4	2192.6	2188.0	2204.2	2229.5	2218.0	2234.1
15°	3175.1	2997.9	2613.7	2298.5	2169.6	2151.2	2148.9	2197.2	2194.9	2194.9	2192.6
17.5°	3303.9	3053.1	2521.7	2192.6	2075.3	2089.1	2105.2	2102.9	2125.9	2135.1	2151.2
20°	3467.3	3117.6	2392.8	2086.8	2004.0	1999.4	1997.1	1999.4	2022.4	2036.2	2024.7
22.5°	3609.9	3131.4	2284.7	1985.6	1918.9	1900.4	1870.5	1900.4	1888.9	1893.5	1907.4
25°	3734.2	3133.7	2130.5	1909.7	1833.7	1792.3	1769.3	1767.0	1746.3	1744.0	1744.0
27.5°	3837.7	3055.4	1994.8	1803.8	1732.5	1693.4	1691.1	1665.8	1612.8	1578.3	1582.9
30°	3918.2	2995.6	1900.4	1711.8	1642.8	1635.9	1615.2	1557.6	1488.6	1444.9	1444.9
32.5°	4060.9	2876.0	1771.6	1617.5	1582.9	1573.7	1525.4	1474.8	1410.4	1369.0	1362.1
35°	4166.7	2765.5	1686.5	1536.9	1520.8	1502.4	1461.0	1405.8	1387.4	1378.2	1385.1
37.5°	4286.4	2641.3	1582.9	1467.9	1484.0	1449.5	1401.2	1375.9	1440.3	1424.2	1431.1
40°	4477.3	2553.9	1481.7	1426.5	1442.6	1403.5	1341.4	1332.2	1412.7	1355.2	1341.4
42.5°	4827.0	2551.6	1419.6	1364.4	1375.9	1346.0	1290.7	1286.1	1318.3	1249.3	1228.6
45°	5261.9	2632.1	1373.6	1318.3	1309.1	1304.5	1286.1	1265.4	1237.8	1148.1	1125.1
47.5°	5781.9	2763.2	1364.4	1249.3	1260.8	1299.9	1276.9	1224.0	1152.7	1095.2	1083.7
50°	6412.3	3034.7	1341.4	1198.7	1219.4	1281.5	1263.1	1189.5	1125.1	1088.3	1081.4
52.5°	7109.4	3377.6	1311.4	1120.5	1166.5	1265.4	1274.6	1205.6	1111.3	1079.1	1074.5
55°	7930.8	3883.7	1276.9	1035.4	1104.4	1249.3	1274.6	1159.6	1092.9	1092.9	1088.3
57.5°	9552.9	4794.8	1205.6	957.1	1049.2	1219.4	1237.8	1161.9	1095.2	1095.2	1086.0
60°	11931.9	6216.7	1069.9	897.3	996.2	1178.0	1210.2	1127.4	1069.9	1083.7	1081.4
62.5°	13793.2	6649.3	954.8	839.8	943.3	1102.1	1173.4	1090.6	1040.0	1090.6	1095.2
65°	14191.2	6212.1	837.5	777.7	869.7	1028.5	1120.5	1037.7	996.2	1095.2	1099.8
66°	14048.6	5871.6	796.1	759.3	837.5	991.6	1088.3	1019.2	973.2	1090.6	1092.9
67.5°	13413.6	5360.8	750.1	720.1	793.8	938.7	1051.5	993.9	936.4	1076.8	1056.1
70°	12033.1	4546.3	671.8	651.1	731.6	851.3	966.3	929.5	878.9	991.6	954.8
72.5°	9267.6	3632.9	589.0	591.3	660.3	761.6	881.2	855.9	812.2	869.7	846.7
75°	5643.8	2321.5	513.1	517.7	575.2	676.4	800.7	782.3	729.3	761.6	750.1
77.5°	2501.0	1150.4	432.5	441.8	487.8	595.9	697.1	667.2	612.0	618.9	614.3
80°	970.9	545.3	352.0	363.5	393.4	476.3	577.5	549.9	501.6	492.4	487.8
82.5°	467.1	303.7	271.5	276.1	287.6	379.6	497.0	462.5	398.0	356.6	356.6
85°	234.7	188.7	191.0	174.9	191.0	257.7	335.9	280.7	232.4	207.1	211.7
87.5°	94.3	94.3	94.3	80.5	85.1	121.9	156.5	105.8	96.6	57.5	57.5
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)