

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: P479987

Luminaire Tested: **IFLD-S-SA2D-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479987
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

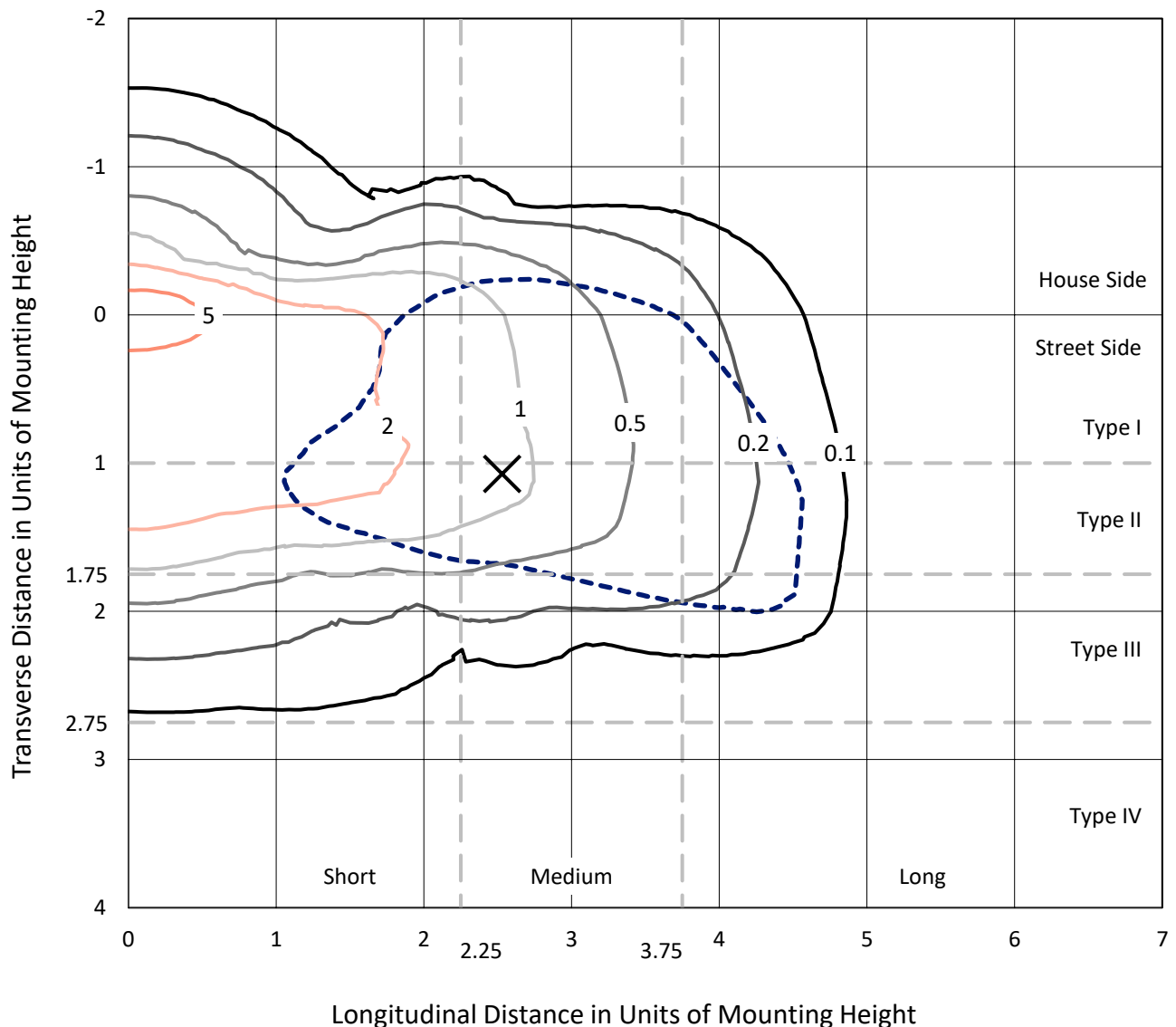
Lumens per Lamp: N/A
Luminaire Lumens: 13040.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

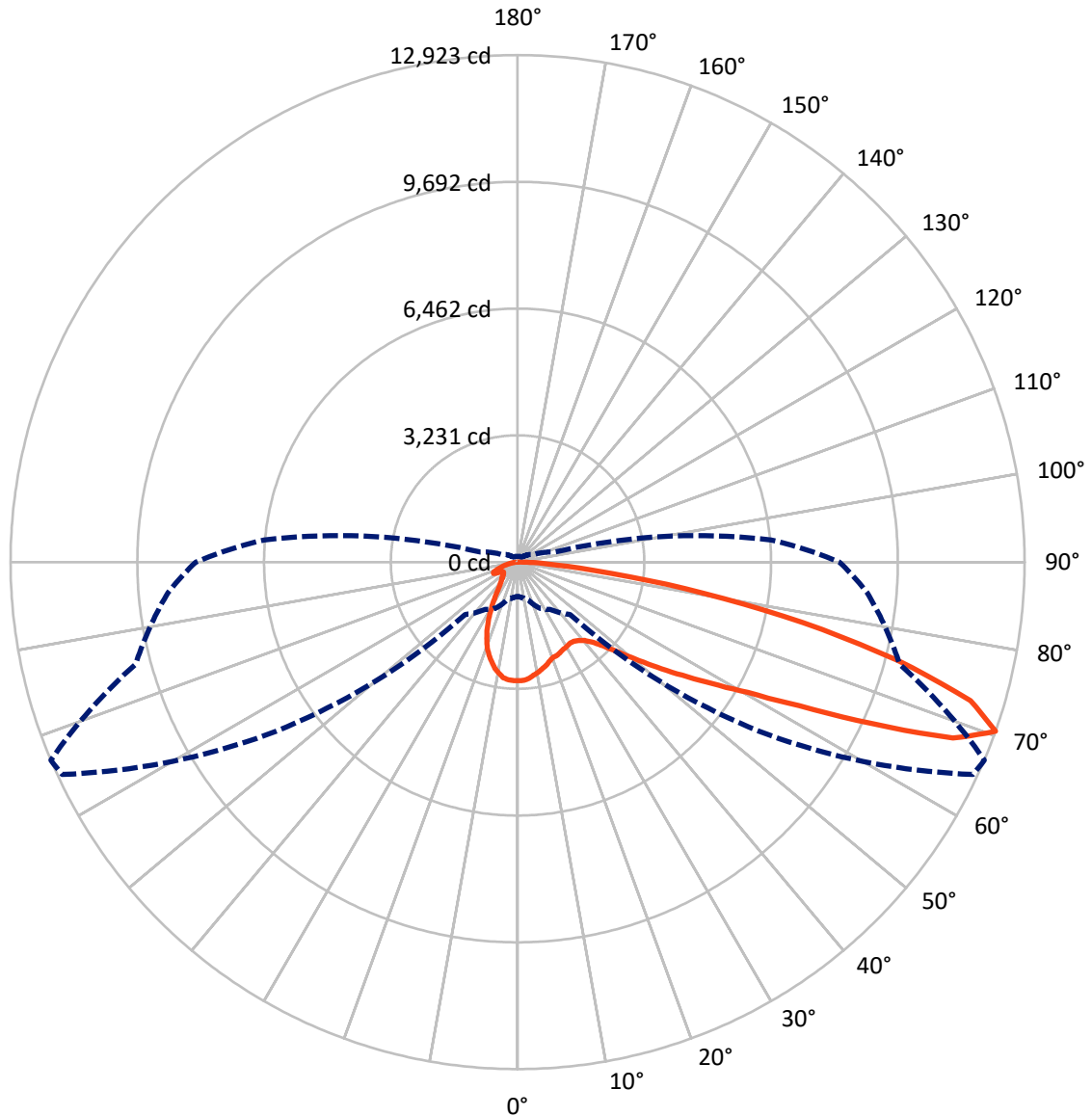
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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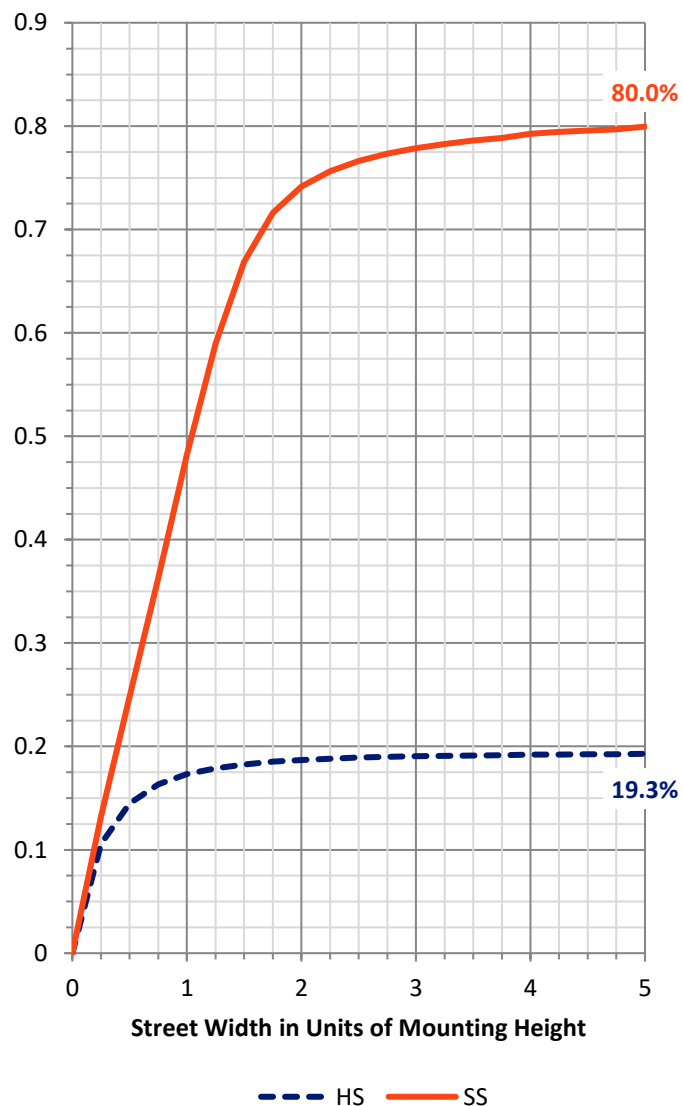
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.8	0.0	2539.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10501.0	0.0	10501.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	13040.8	0.0	13040.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	2.0
10°-20°	630.9	4.8
20°-30°	851.9	6.5
30°-40°	1139.9	8.7
40°-50°	1676.3	12.9
50°-60°	2612.9	20.0
60°-70°	3218.6	24.7
70°-80°	2274.2	17.4
80°-90°	372.8	2.9
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°	13040.8	100.0
0°-180°	13040.8	100.0

Coefficient of Utilization



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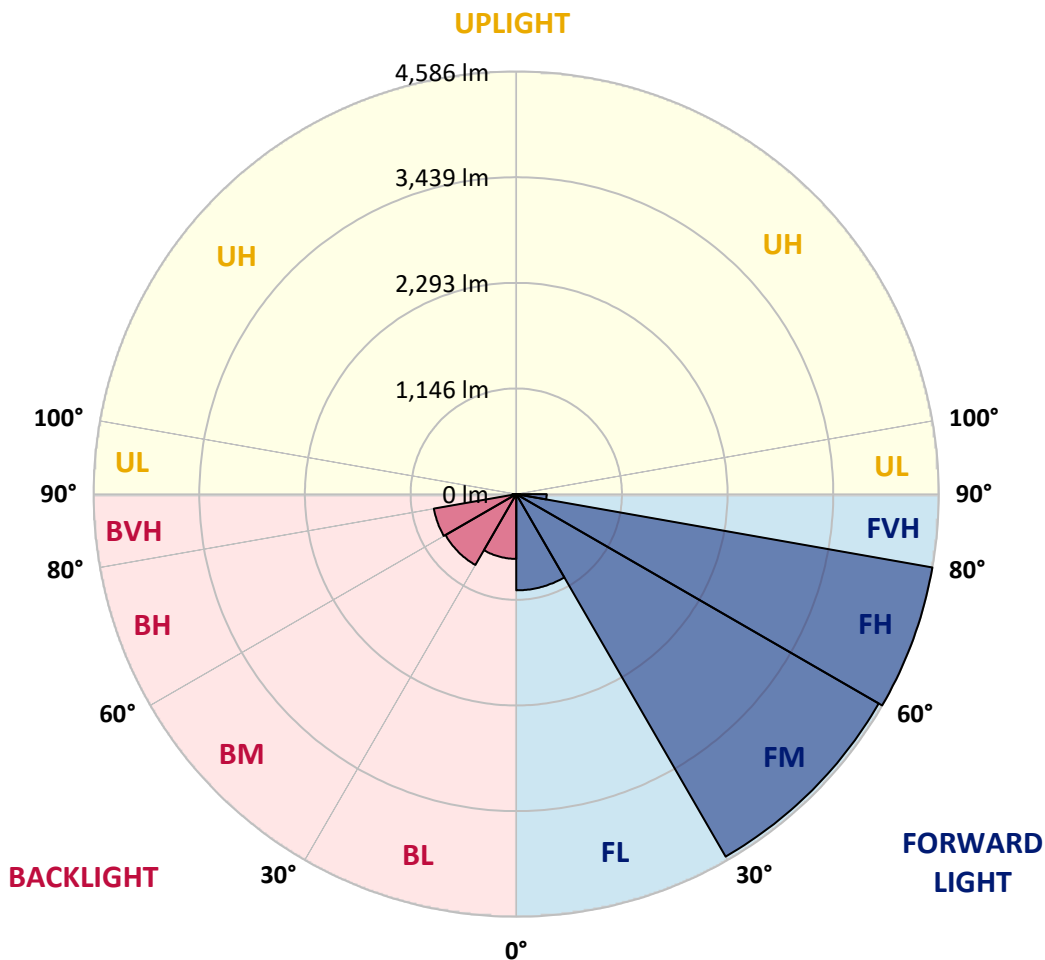
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.8	8.0			
FM (30°-60°)	4541.8	34.8			
FH (60°-80°)	4585.6	35.2			G2/5000
FVH (80°-90°)	329.8	2.5			G3/500
BL (0°-30°)	702.3	5.4	B2/1000		
BM (30°-60°)	887.2	6.8	B1/1000		
BH (60°-80°)	907.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	43.0	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9
2.5°	2811.0	2842.8	2854.3	2871.7	2916.4	2949.6	2969.8	2992.9	3020.4	3043.5	3057.9
5°	2614.7	2632.0	2659.4	2678.2	2734.5	2824.0	2884.6	2982.8	2979.9	3016.0	3070.9
7.5°	2424.1	2441.4	2454.4	2491.9	2572.8	2653.6	2764.8	2923.6	2912.1	2995.8	3081.0
10°	2305.7	2292.7	2297.0	2360.6	2424.1	2515.0	2655.1	2816.8	2858.7	2988.6	3109.9
12.5°	2194.5	2180.1	2214.7	2255.2	2333.1	2415.4	2582.9	2728.7	2792.2	2962.6	3122.9
15°	2125.2	2115.1	2158.4	2175.8	2268.2	2366.3	2484.7	2662.3	2731.6	2930.8	3102.7
17.5°	2086.2	2094.9	2110.8	2148.3	2207.5	2291.3	2421.2	2617.5	2647.9	2891.9	3098.3
20°	2093.5	2103.6	2105.0	2120.9	2161.3	2226.3	2359.1	2569.9	2590.1	2884.6	3109.9
22.5°	2151.2	2136.8	2142.5	2132.4	2144.0	2194.5	2311.5	2506.4	2584.3	2824.0	3085.3
25°	2237.8	2217.6	2214.7	2180.1	2158.4	2172.9	2302.8	2490.5	2541.0	2805.2	3083.9
27.5°	2390.9	2360.6	2360.6	2308.6	2220.5	2197.4	2278.3	2464.5	2509.3	2787.9	3050.7
30°	2538.1	2538.1	2539.6	2466.0	2367.8	2253.7	2288.4	2454.4	2483.3	2735.9	3005.9
32.5°	2717.2	2712.8	2705.6	2669.5	2517.9	2347.6	2337.5	2441.4	2455.8	2718.6	2992.9
35°	2891.9	2880.3	2936.6	2904.9	2750.4	2530.9	2388.0	2447.2	2478.9	2692.6	2952.5
37.5°	3023.2	3030.5	3147.4	3167.6	3034.8	2738.8	2530.9	2504.9	2535.3	2730.2	2952.5
40°	3193.6	3222.5	3332.2	3400.1	3319.2	3013.1	2757.6	2601.7	2623.3	2813.9	3016.0
42.5°	3417.4	3441.9	3582.0	3670.1	3647.0	3362.5	2981.4	2803.8	2786.5	2953.9	3111.3
45°	3713.4	3717.7	3859.2	3980.5	4028.1	3727.8	3336.5	3059.3	3044.9	3195.1	3286.0
47.5°	4065.6	4061.3	4149.4	4279.3	4407.8	4163.8	3745.1	3447.7	3395.7	3540.1	3576.2
50°	4406.4	4387.6	4407.8	4573.9	4820.7	4709.6	4241.8	3922.7	3870.7	3950.1	4012.2
52.5°	4594.1	4617.2	4562.3	4781.8	5259.6	5354.9	4900.1	4490.1	4445.4	4484.3	4592.6
55°	4462.7	4510.3	4474.2	4682.1	5451.7	6141.8	5752.0	5147.0	5089.3	5074.8	5252.4
57.5°	3903.9	3990.6	3997.8	4327.0	5385.2	6751.1	6950.3	5922.3	5835.7	5688.4	5871.8
60°	2997.3	3083.9	3150.3	3540.1	4816.4	7114.9	8339.2	7025.4	6739.5	6358.3	6468.1
62.5°	2100.7	2159.9	2226.3	2466.0	3713.4	6901.2	9540.4	8578.9	8051.9	7064.4	7201.5
65°	1530.4	1576.6	1644.5	1785.9	2281.2	5710.1	10097.7	10424.0	9924.5	7962.4	7945.0
67.5°	1152.1	1181.0	1270.5	1497.2	1580.9	3527.1	9520.2	12373.1	11968.8	8960.0	8542.8
70°	872.0	896.6	980.3	1290.7	1477.0	1891.3	7510.5	12807.7	12923.2	10078.9	8944.1
72.5°	600.6	628.0	721.9	1075.6	1406.2	1500.1	4713.9	11635.3	12072.8	10539.5	8513.9
75°	368.2	386.9	441.8	815.7	1396.1	1466.9	2594.4	9534.6	9998.1	9738.2	7448.4
77.5°	259.9	258.4	268.5	477.9	1209.9	1475.5	1599.7	6986.4	7436.8	7177.0	5054.6
80°	189.1	190.6	200.7	285.9	821.5	1500.1	1260.4	4679.2	4813.5	3742.2	1993.8
82.5°	114.1	119.8	144.4	193.5	493.8	1354.3	1165.1	2600.2	2432.7	1201.2	548.6
85°	60.6	60.6	85.2	122.7	262.8	1010.6	1121.8	1237.3	1036.6	372.5	203.6
87.5°	14.4	14.4	24.5	49.1	105.4	483.7	765.2	492.3	394.1	125.6	83.7
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°	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9	3018.9
2.5°	3052.1	3034.8	3056.5	3013.1	2978.5	2979.9	2926.5	2923.6	2916.4	2878.9	2891.9
5°	3086.8	3072.3	3047.8	3000.1	2923.6	2847.1	2800.9	2741.7	2717.2	2704.2	2709.9
7.5°	3120.0	3094.0	3023.2	2956.8	2838.4	2694.1	2610.3	2530.9	2429.9	2418.3	2398.1
10°	3128.6	3073.8	2982.8	2841.3	2684.0	2523.7	2333.1	2185.9	2107.9	2047.3	2024.2
12.5°	3115.6	3092.5	2917.9	2735.9	2497.7	2246.5	2024.2	1816.3	1671.9	1596.8	1576.6
15°	3114.2	3073.8	2845.7	2575.7	2271.0	1943.3	1627.1	1377.4	1225.8	1163.7	1163.7
17.5°	3115.6	3018.9	2760.5	2414.0	2003.9	1560.7	1212.8	1007.7	924.0	915.3	922.6
20°	3086.8	2978.5	2671.0	2223.4	1669.0	1172.3	880.7	797.0	797.0	808.5	812.8
22.5°	3060.8	2917.9	2529.5	1988.1	1328.3	848.9	716.1	691.6	719.0	739.2	747.9
25°	3024.7	2867.3	2385.1	1744.1	1010.6	684.3	622.3	628.0	654.0	690.1	687.2
27.5°	2972.7	2779.3	2213.3	1461.1	752.2	590.5	574.6	577.5	604.9	620.8	617.9
30°	2913.5	2689.7	2054.5	1179.6	596.3	541.4	540.0	547.2	551.5	560.2	558.7
32.5°	2838.4	2571.3	1885.6	916.8	537.1	514.0	508.2	503.9	508.2	506.8	502.4
35°	2785.0	2507.8	1713.8	698.8	503.9	489.4	485.1	477.9	472.1	463.4	462.0
37.5°	2770.6	2444.3	1533.3	570.3	477.9	470.7	456.2	443.2	436.0	431.7	428.8
40°	2761.9	2402.4	1357.1	501.0	456.2	449.0	431.7	414.4	407.1	402.8	404.3
42.5°	2792.2	2379.3	1178.1	466.3	437.5	424.5	405.7	385.5	384.0	381.2	385.5
45°	2899.1	2408.2	1012.1	441.8	418.7	397.0	372.5	362.4	360.9	358.1	360.9
47.5°	3141.6	2480.4	870.6	425.9	398.5	379.7	353.7	339.3	337.8	336.4	336.4
50°	3476.6	2702.7	752.2	407.1	385.5	359.5	335.0	319.1	316.2	310.4	310.4
52.5°	4002.1	3076.7	681.5	397.0	362.4	340.7	314.7	297.4	290.2	284.4	284.4
55°	4594.1	3540.1	668.5	379.7	337.8	317.6	294.5	277.2	270.0	262.8	259.9
57.5°	5268.3	4153.7	760.9	368.2	320.5	294.5	268.5	252.7	246.9	239.7	236.8
60°	5896.3	4765.9	1048.2	350.8	304.6	272.9	246.9	231.0	223.8	216.6	216.6
62.5°	6622.6	5523.9	1534.7	350.8	290.2	249.8	223.8	212.2	207.9	200.7	199.2
65°	7481.6	6307.8	1889.9	372.5	285.9	229.6	202.1	190.6	186.2	181.9	180.5
67.5°	8135.6	6758.3	1625.7	430.2	304.6	212.2	180.5	173.3	170.4	166.0	163.1
70°	8204.9	6484.0	980.3	464.9	323.4	194.9	161.7	154.5	154.5	150.2	147.3
72.5°	7582.7	5753.4	659.8	414.4	293.1	174.7	142.9	137.2	134.3	131.4	129.9
75°	6345.4	4879.9	521.2	330.6	225.2	144.4	124.2	118.4	114.1	112.6	109.7
77.5°	4262.0	3172.0	385.5	258.4	166.0	116.9	104.0	98.2	93.8	92.4	88.1
80°	1637.2	1208.4	248.3	187.7	116.9	92.4	82.3	76.5	73.6	69.3	66.4
82.5°	482.2	391.3	138.6	115.5	75.1	63.5	59.2	54.9	50.5	46.2	44.8
85°	199.2	179.0	85.2	60.6	46.2	37.5	34.7	30.3	26.0	23.1	20.2
87.5°	92.4	76.5	39.0	23.1	15.9	8.7	4.3	1.4	0.0	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)