

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: P484431

Luminaire Tested: **IFLD-S-SA2B-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

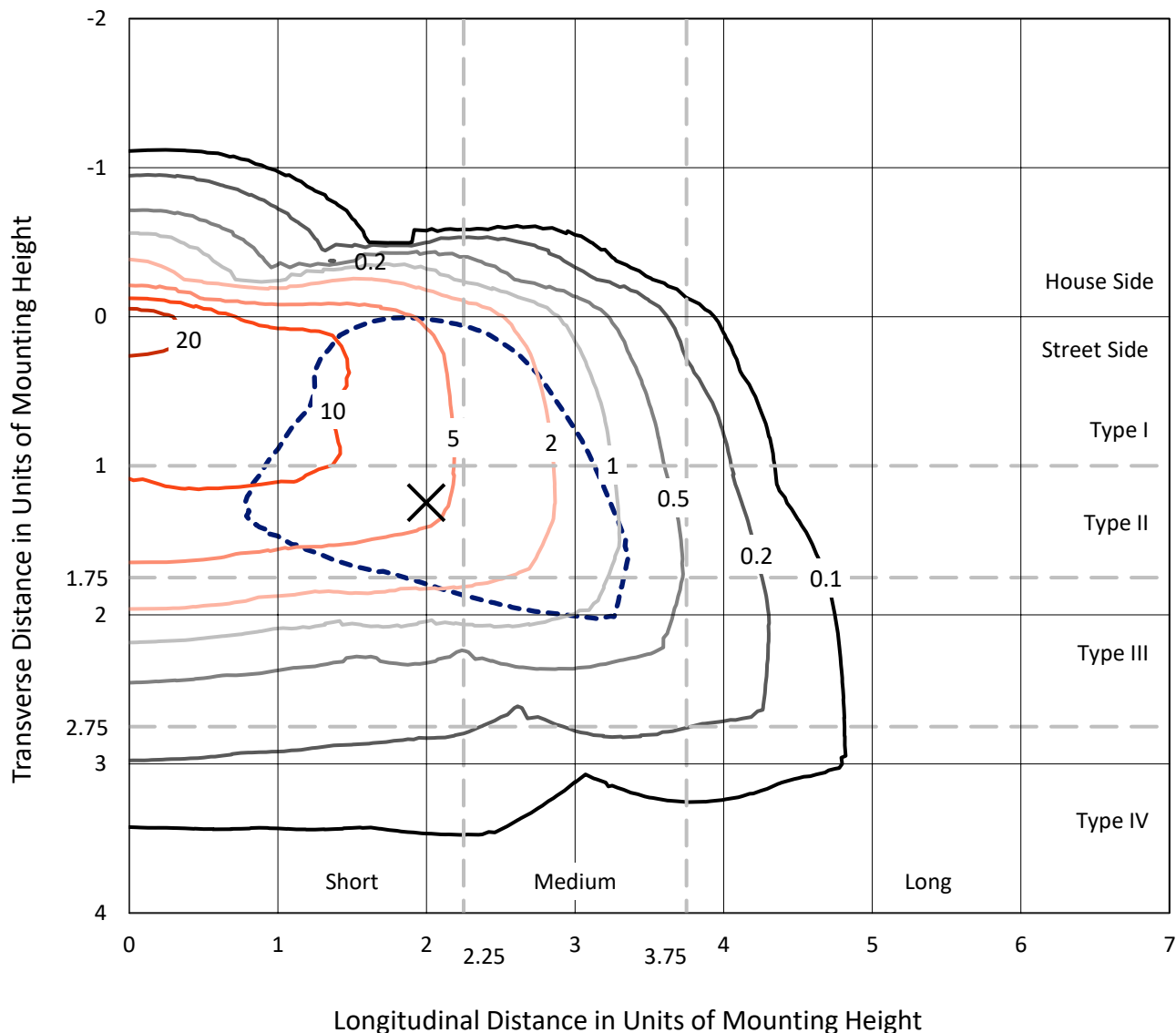
Lumens per Lamp: N/A
Luminaire Lumens: 9767.3 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

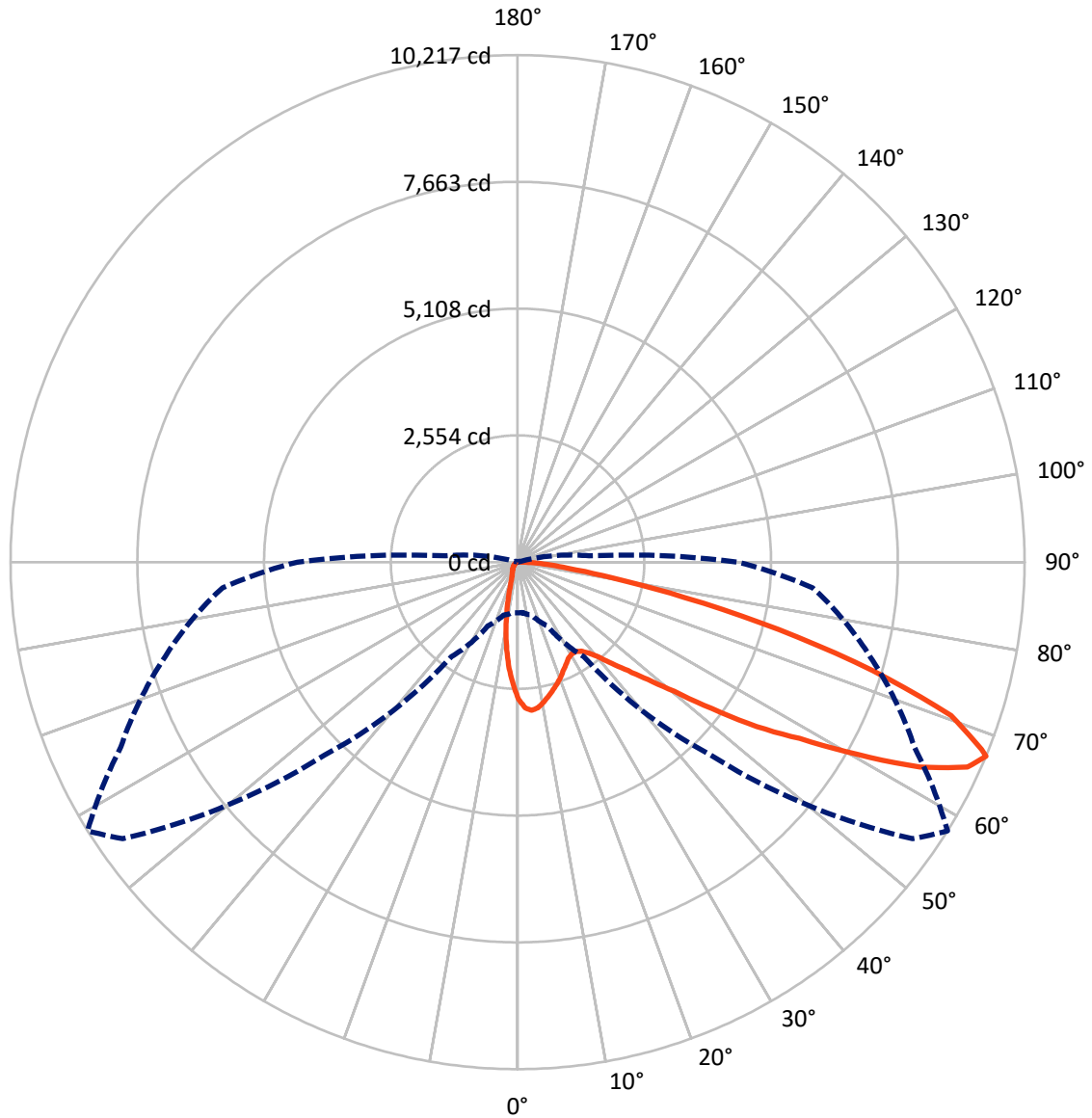
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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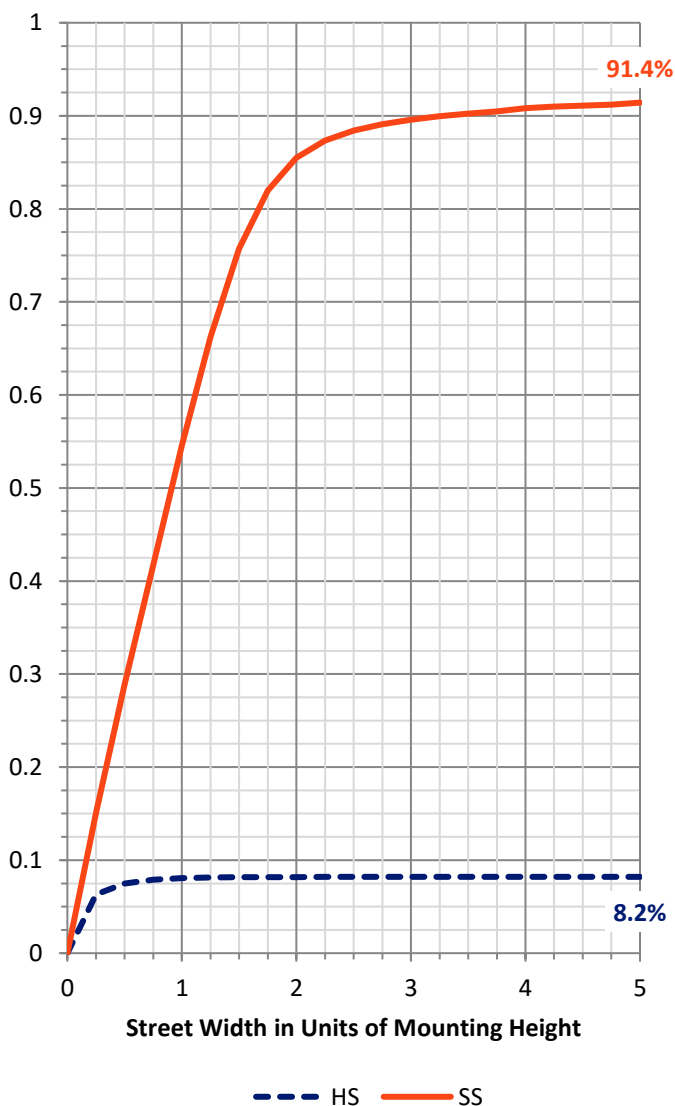
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.3	0.0	807.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	8959.9	0.0	8959.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	9767.3	0.0	9767.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	2.2
10°-20°	455.4	4.7
20°-30°	604.2	6.2
30°-40°	837.3	8.6
40°-50°	1366.2	14.0
50°-60°	2401.4	24.6
60°-70°	2659.7	27.2
70°-80°	1102.2	11.3
80°-90°	121.3	1.2
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°	9767.3	100.0
0°-180°	9767.3	100.0

Coefficient of Utilization



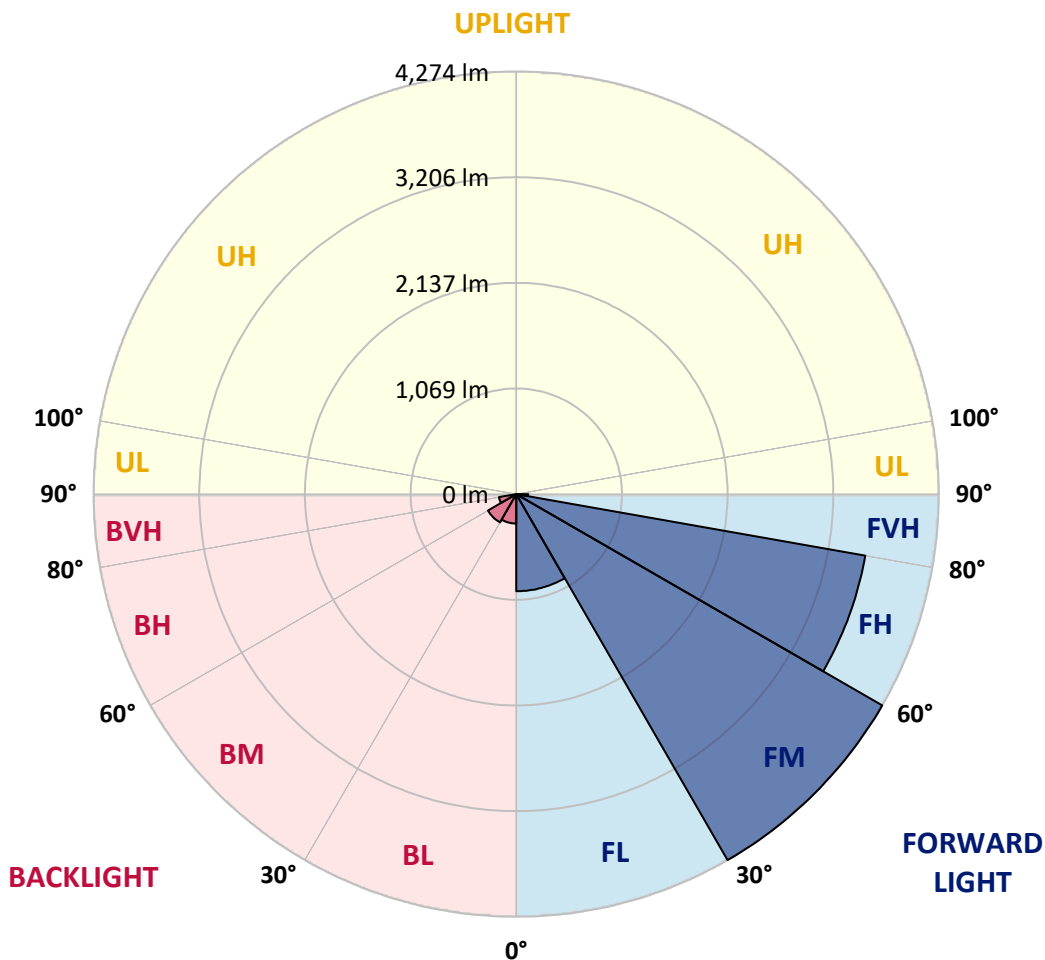
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.9	10.1			
FM (30°-60°)	4274.4	43.8			
FH (60°-80°)	3584.4	36.7			G2/5000
FVH (80°-90°)	119.3	1.2			G2/225
BL (0°-30°)	297.3	3.0	B1/500		
BM (30°-60°)	330.5	3.4	B1/1000		
BH (60°-80°)	177.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	3011.0	3021.4	3030.4	3013.6	3027.8	3007.1	2953.9	2942.3	2933.2	2854.1	2808.7
5°	3009.7	2998.0	3007.1	3014.9	2995.4	3011.0	2998.0	2999.3	2964.3	2893.0	2765.9
7.5°	2808.7	2803.5	2808.7	2846.3	2889.1	2922.8	2942.3	2961.7	2938.4	2832.0	2708.9
10°	2537.7	2563.6	2577.9	2645.3	2711.4	2773.7	2834.6	2870.9	2864.5	2821.7	2646.6
12.5°	2348.4	2340.6	2392.5	2436.5	2502.7	2628.5	2734.8	2768.5	2807.4	2747.8	2564.9
15°	2173.3	2152.6	2183.7	2260.2	2373.0	2472.9	2622.0	2672.5	2721.8	2737.4	2520.8
17.5°	2006.0	2016.4	2048.8	2117.5	2223.9	2363.9	2504.0	2576.6	2694.6	2673.8	2454.7
20°	1925.6	1947.7	1959.3	1994.4	2068.3	2208.3	2417.1	2475.4	2601.2	2672.5	2389.9
22.5°	1929.5	1929.5	1902.3	1923.0	1990.5	2099.4	2299.1	2363.9	2563.6	2605.1	2331.5
25°	1971.0	1945.1	1946.4	1921.7	1950.3	2009.9	2192.8	2271.9	2487.1	2611.6	2300.4
27.5°	2002.1	1997.0	1989.2	1982.7	1946.4	1955.5	2122.7	2187.6	2457.3	2603.8	2252.4
30°	2115.0	2091.6	2083.8	2069.6	2021.6	1977.5	2067.0	2148.7	2433.9	2622.0	2225.2
32.5°	2209.6	2213.5	2220.0	2178.5	2137.0	2028.1	2082.5	2147.4	2417.1	2663.5	2252.4
35°	2328.9	2345.8	2348.4	2335.4	2291.3	2183.7	2147.4	2203.1	2445.6	2737.4	2255.0
37.5°	2510.5	2492.3	2541.6	2546.8	2515.6	2373.0	2297.8	2319.8	2529.9	2855.4	2353.6
40°	2628.5	2650.5	2742.6	2799.6	2746.5	2616.8	2515.6	2511.8	2651.8	3040.8	2475.4
42.5°	2759.4	2808.7	2909.8	3033.0	3026.6	2906.0	2803.5	2786.7	2868.4	3309.2	2668.7
45°	2938.4	2982.5	3123.8	3309.2	3410.4	3307.9	3153.6	3119.9	3131.6	3674.9	2998.0
47.5°	3235.3	3223.7	3427.2	3610.1	3776.1	3697.0	3630.8	3532.3	3523.2	4105.4	3453.2
50°	3571.2	3568.6	3750.1	3957.6	4149.5	4303.8	4193.6	4086.0	4088.6	4690.2	3988.7
52.5°	3890.2	3940.7	4136.5	4342.7	4672.1	4838.1	4944.4	4901.6	4695.4	5212.8	4561.9
55°	4058.7	4102.8	4297.3	4652.6	5172.6	5599.2	5887.1	5850.8	5452.7	5801.5	5127.2
57.5°	3899.2	3929.1	4192.3	4657.8	5522.7	6474.5	6750.7	6705.4	6235.9	6251.5	5810.6
60°	3231.4	3278.1	3669.7	4215.6	5386.6	7148.8	7939.8	7871.1	6949.1	6820.8	6250.2
62.5°	2238.1	2269.3	2590.9	3270.3	4740.8	7383.5	9062.8	9100.4	7701.2	7264.2	6381.2
65°	1449.7	1447.1	1631.3	2091.6	3359.8	6672.9	9726.7	9960.1	8427.4	7331.7	6341.0
67°	1024.4	1020.5	1107.4	1418.6	2326.3	5498.1	9715.0	10216.9	8821.6	7351.1	5968.8
67.5°	945.3	941.4	1024.4	1304.5	2099.4	5113.0	9569.8	10084.6	8960.4	7323.9	5805.4
70°	733.9	723.6	754.7	898.6	1222.8	3306.6	8190.1	9263.8	8672.5	6644.4	4635.8
72.5°	530.4	542.0	591.3	737.8	959.6	1779.1	6242.4	7491.2	7243.5	5007.9	2946.2
75°	369.6	379.9	459.0	601.7	880.5	1078.9	4220.8	5433.3	5045.5	2764.6	1255.2
77.5°	193.2	206.2	293.1	481.1	800.1	835.1	2522.1	3445.4	2673.8	984.2	346.2
80°	89.5	96.0	146.5	341.0	669.1	733.9	1470.5	1916.6	1069.8	220.4	119.3
82.5°	38.9	42.8	67.4	195.8	474.6	641.9	910.3	1005.0	387.7	71.3	73.9
85°	7.8	9.1	25.9	103.7	229.5	389.0	639.3	596.5	194.5	35.0	58.4
87.5°	0.0	0.0	6.5	29.8	62.2	115.4	271.0	271.0	59.6	18.2	22.0
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°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2768.5	2721.8	2619.4	2524.7	2457.3	2380.8	2279.6	2234.3	2217.4	2194.1	2159.0
5°	2695.9	2638.8	2463.8	2287.4	2094.2	1947.7	1792.1	1701.3	1632.6	1589.8	1575.5
7.5°	2593.4	2476.7	2240.7	1958.1	1707.8	1489.9	1253.9	1094.4	992.0	950.5	911.6
10°	2511.8	2360.0	2000.8	1649.4	1316.2	997.2	731.4	591.3	485.0	444.8	439.6
12.5°	2405.4	2223.9	1776.5	1334.3	915.5	593.9	404.6	351.4	321.6	316.4	312.5
15°	2317.2	2100.7	1563.8	1033.5	592.6	370.9	315.1	302.1	294.4	291.8	293.1
17.5°	2257.6	1968.4	1346.0	752.1	390.3	303.4	290.5	282.7	278.8	277.5	273.6
20°	2139.6	1856.9	1130.7	526.5	304.7	280.1	269.7	263.2	259.3	258.0	256.8
22.5°	2072.2	1715.6	915.5	367.0	271.0	254.2	246.4	241.2	234.7	230.8	229.5
25°	2004.7	1611.8	723.6	285.3	246.4	234.7	223.0	216.6	206.2	201.0	199.7
27.5°	1925.6	1509.4	557.6	247.7	221.7	210.1	198.4	188.0	175.1	169.9	167.3
30°	1880.2	1409.5	420.1	221.7	203.6	188.0	173.8	160.8	146.5	137.5	134.9
32.5°	1856.9	1318.8	315.1	202.3	184.1	167.3	149.1	133.6	120.6	112.8	111.5
35°	1828.4	1230.6	247.7	184.1	166.0	147.8	129.7	114.1	101.1	94.7	92.1
37.5°	1858.2	1178.7	206.2	169.9	151.7	131.0	111.5	96.0	85.6	79.1	77.8
40°	1939.9	1135.9	178.9	156.9	137.5	115.4	97.3	81.7	72.6	67.4	64.8
42.5°	2065.7	1135.9	162.1	143.9	124.5	101.1	83.0	71.3	62.2	57.1	55.8
45°	2293.9	1170.9	147.8	131.0	108.9	86.9	71.3	59.6	50.6	45.4	44.1
47.5°	2614.2	1251.3	136.2	119.3	97.3	76.5	62.2	50.6	41.5	36.3	35.0
50°	3044.7	1434.2	124.5	105.0	86.9	66.1	51.9	40.2	32.4	27.2	25.9
52.5°	3581.5	1693.5	112.8	97.3	73.9	55.8	41.5	32.4	24.6	20.7	19.5
55°	4149.5	2011.2	98.6	86.9	63.5	46.7	33.7	24.6	18.2	15.6	14.3
57.5°	4721.4	2256.3	86.9	75.2	51.9	37.6	27.2	19.5	13.0	10.4	9.1
60°	5024.8	2279.6	75.2	62.2	41.5	29.8	20.7	14.3	9.1	6.5	5.2
62.5°	5071.5	2072.2	64.8	50.6	33.7	23.3	14.3	10.4	5.2	2.6	2.6
65°	4831.6	1727.2	55.8	40.2	25.9	16.9	10.4	6.5	2.6	1.3	0.0
67°	4442.6	1447.1	48.0	33.7	20.7	13.0	7.8	3.9	1.3	0.0	0.0
67.5°	4292.2	1369.3	45.4	31.1	19.5	11.7	6.5	3.9	1.3	0.0	0.0
70°	3331.3	977.7	33.7	22.0	14.3	9.1	5.2	2.6	0.0	0.0	0.0
72.5°	2041.0	571.9	25.9	15.6	10.4	6.5	3.9	1.3	0.0	0.0	0.0
75°	855.8	197.1	22.0	11.7	7.8	3.9	2.6	1.3	0.0	0.0	0.0
77.5°	223.0	73.9	15.6	7.8	5.2	3.9	2.6	1.3	0.0	0.0	0.0
80°	90.8	33.7	10.4	5.2	5.2	3.9	2.6	1.3	0.0	0.0	0.0
82.5°	59.6	15.6	6.5	5.2	3.9	2.6	1.3	0.0	0.0	0.0	0.0
85°	45.4	9.1	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	5.2	3.9	2.6	2.6	0.0	0.0	0.0	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)