

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: P477669

Luminaire Tested: **IFLD-M-SA4A-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477669
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

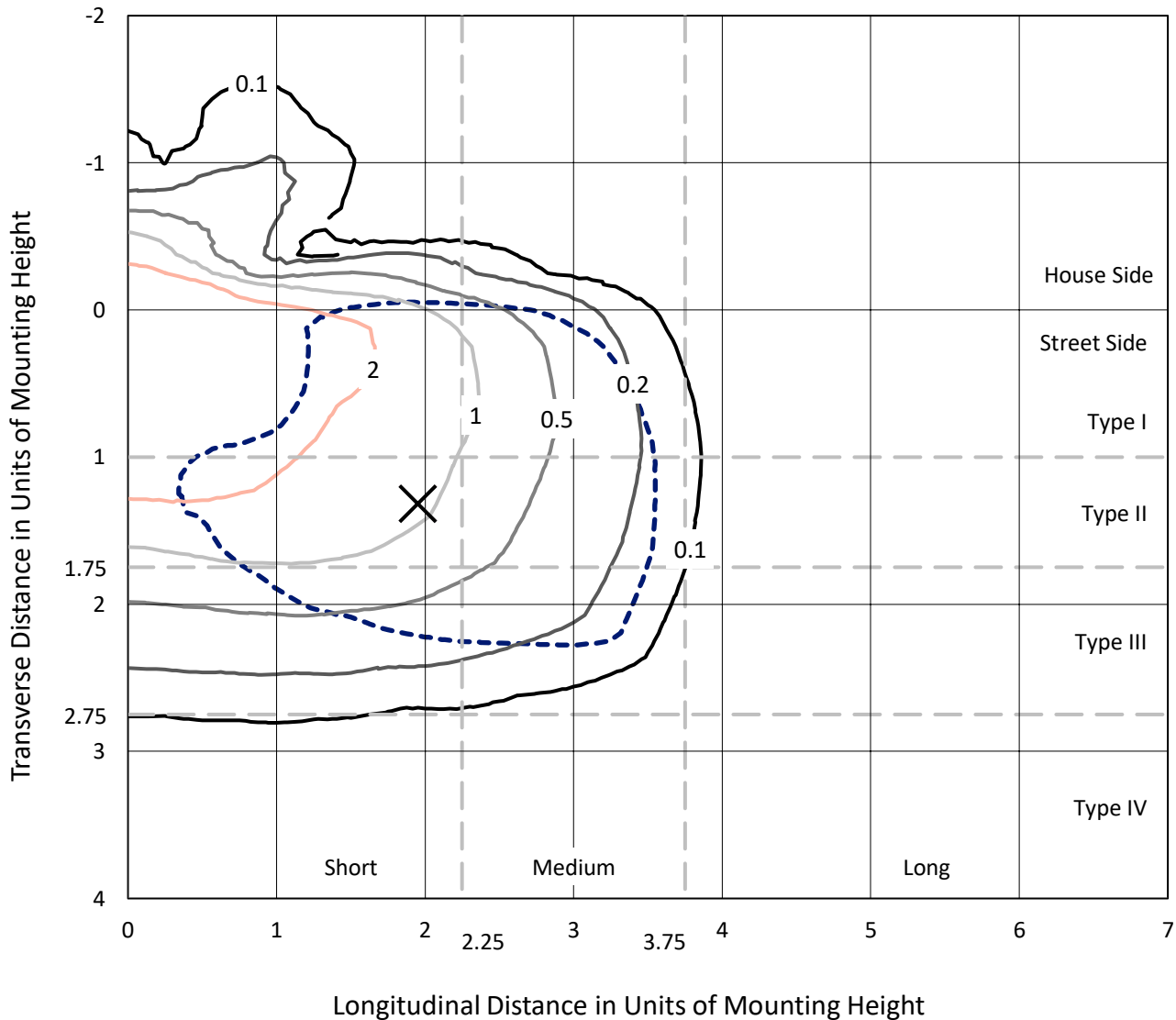
Lumens per Lamp: N/A
Luminaire Lumens: 15170.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

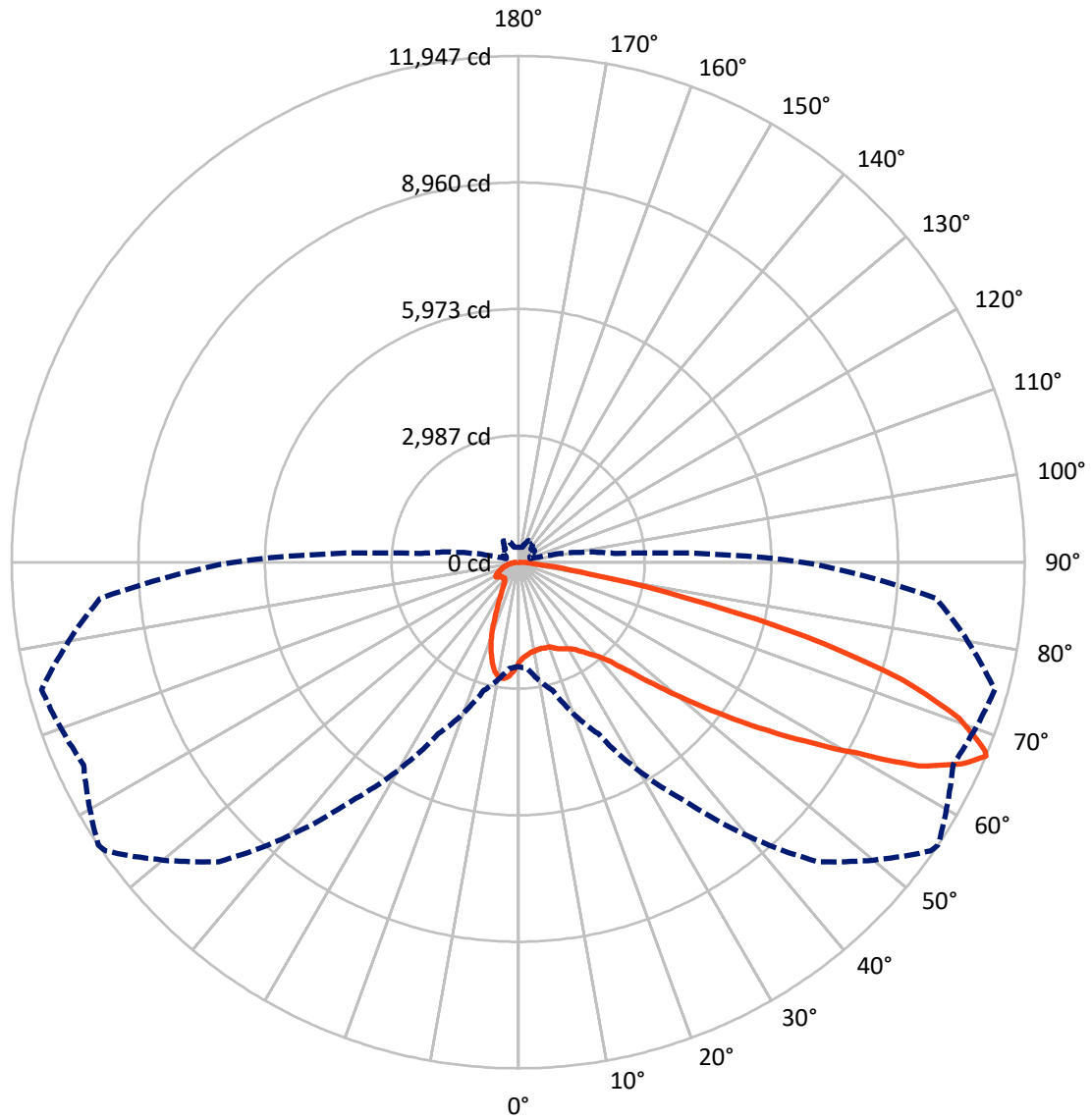
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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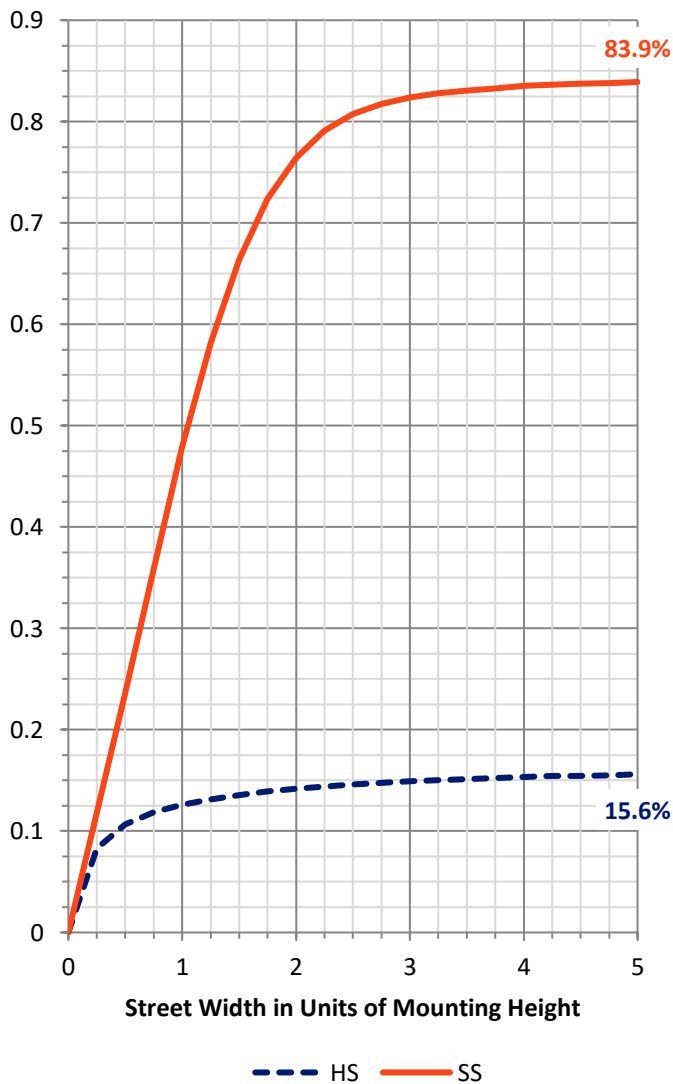
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2401.7	0.0	2401.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12769.2	0.0	12769.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	15170.9	0.0	15170.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.5
10°-20°	620.4	4.1
20°-30°	973.0	6.4
30°-40°	1388.9	9.2
40°-50°	2096.3	13.8
50°-60°	3336.9	22.0
60°-70°	4266.0	28.1
70°-80°	2080.0	13.7
80°-90°	182.0	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°	15170.9	100.0
0°-180°	15170.9	100.0

Coefficient of Utilization

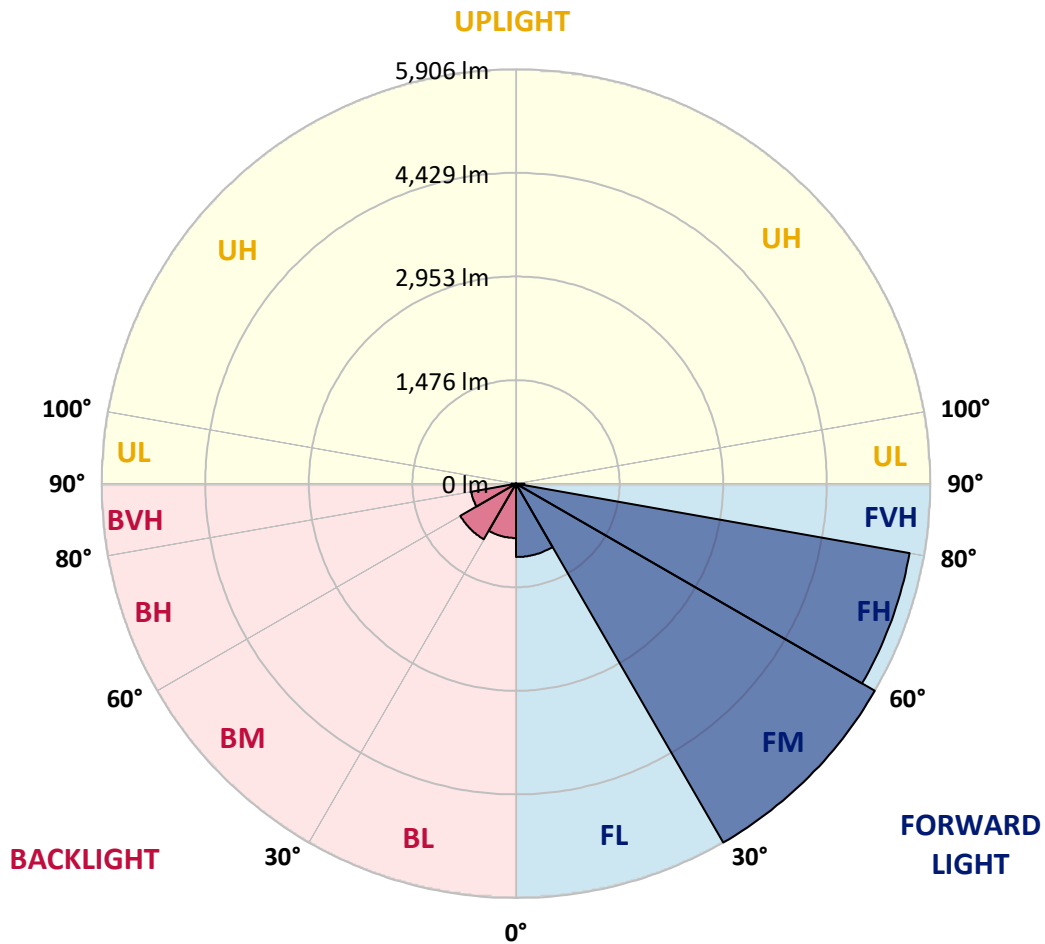


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.4	6.9			
FM (30°-60°)	5905.9	38.9			
FH (60°-80°)	5697.0	37.6			G3/7500
FVH (80°-90°)	120.8	0.8			G2/225
BL (0°-30°)	775.3	5.1	B2/1000		
BM (30°-60°)	916.3	6.0	B1/1000		
BH (60°-80°)	649.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	61.1	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5
2.5°	2168.4	2159.5	2170.2	2159.5	2207.6	2236.0	2244.9	2257.4	2301.8	2344.5
5°	2077.7	2038.6	2081.3	2095.5	2099.1	2147.1	2196.9	2205.8	2228.9	2298.3
7.5°	1926.5	1971.0	1955.0	1997.7	2042.1	2090.2	2172.0	2148.9	2234.2	2300.1
10°	1894.5	1898.0	1915.8	1931.8	1971.0	2033.2	2147.1	2132.8	2220.0	2360.5
12.5°	1926.5	1926.5	1921.2	1908.7	1953.2	2013.7	2104.4	2111.5	2248.5	2378.3
15°	2038.6	2059.9	2003.0	2011.9	1994.1	2013.7	2093.7	2109.7	2259.1	2392.6
17.5°	2312.5	2305.4	2237.8	2143.5	2065.3	2052.8	2107.9	2125.7	2248.5	2433.5
20°	2579.3	2565.1	2447.7	2349.9	2195.1	2122.2	2131.1	2132.8	2266.3	2460.2
22.5°	2876.4	2913.8	2785.7	2586.5	2394.3	2212.9	2177.3	2205.8	2307.2	2474.4
25°	3342.5	3262.4	3152.1	2890.6	2581.1	2353.4	2253.8	2268.0	2346.3	2510.0
27.5°	3678.7	3646.7	3474.1	3262.4	2842.6	2463.7	2294.7	2321.4	2417.5	2508.2
30°	4002.4	4002.4	3897.5	3580.8	3118.3	2648.7	2381.9	2369.4	2383.7	2504.6
32.5°	4381.3	4329.7	4178.5	3968.6	3465.2	2817.7	2451.3	2454.8	2454.8	2570.4
35°	4580.6	4664.2	4562.8	4221.2	3730.3	3098.8	2618.5	2591.8	2572.2	2643.4
37.5°	4872.3	4922.1	4815.4	4614.4	4059.4	3326.5	2766.1	2744.8	2630.9	2700.3
40°	5048.4	5039.5	5035.9	4943.4	4495.2	3595.1	2983.1	2928.0	2775.0	2901.3
42.5°	5148.0	5130.2	5349.0	5292.1	4906.1	3990.0	3255.3	3225.1	3056.1	3258.9
45°	5260.1	5391.7	5571.4	5731.5	5384.6	4545.0	3716.0	3673.3	3522.1	3780.1
47.5°	5357.9	5519.8	5749.3	5920.0	5816.9	5148.0	4285.3	4295.9	4196.3	4461.4
50°	5521.6	5537.6	5848.9	6194.0	6274.0	5704.8	5050.2	5032.4	4987.9	5359.7
52.5°	5471.8	5519.8	5912.9	6354.1	6485.7	6293.6	5872.0	5925.4	5866.7	6334.5
55°	4660.6	4804.7	5873.8	6523.1	6987.4	6958.9	6928.6	6893.1	6889.5	7430.3
57.5°	4292.4	4409.8	5174.7	6709.8	7524.6	7734.5	7930.1	7969.3	7967.5	8620.3
60°	4050.5	4171.4	4891.9	6608.5	7981.7	8750.2	9125.5	9130.9	9120.2	9892.2
62.5°	3577.3	3694.7	4402.7	6053.5	8108.0	9687.7	10523.7	10593.1	10103.9	10988.0
65°	3008.0	3104.1	3728.5	5204.9	7771.8	10283.6	11575.0	11493.2	10932.9	11614.2
67°	2460.2	2524.2	3132.6	4468.5	6893.1	9997.2	11879.2	11946.8	11315.3	11640.8
67.5°	2303.6	2362.3	2936.9	4217.7	6558.6	9780.2	11889.9	11879.2	11322.4	11646.2
70°	1599.2	1624.1	2001.2	2901.3	4831.4	8262.8	11021.8	11046.7	10847.5	11014.7
72.5°	1060.2	1097.6	1337.7	1828.7	2848.0	6012.5	9212.7	9479.5	9353.2	9031.3
75°	683.1	704.4	875.2	1088.7	1401.7	3424.3	6805.9	6983.8	6693.8	5585.6
77.5°	382.5	405.6	528.3	661.7	683.1	1424.9	3822.8	4043.3	3426.1	2373.0
80°	238.4	268.6	398.5	393.1	325.5	523.0	1576.1	1688.1	1369.7	816.5
82.5°	179.7	202.8	307.7	275.7	183.2	233.0	590.6	633.3	501.6	314.9
85°	122.7	154.8	222.4	170.8	96.1	112.1	234.8	252.6	229.5	153.0
87.5°	44.5	65.8	115.6	85.4	42.7	33.8	76.5	85.4	81.8	69.4
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2360.5	0°	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5
2381.9	2.5°	2415.7	2440.6	2453.0	2526.0	2556.2	2550.9	2558.0	2568.7	2579.3	2593.6
2412.1	5°	2435.3	2511.7	2552.7	2638.0	2695.0	2670.1	2702.1	2693.2	2680.7	2679.0
2467.3	7.5°	2499.3	2597.1	2719.9	2743.0	2767.9	2705.6	2652.3	2579.3	2561.6	2499.3
2513.5	10°	2613.1	2693.2	2842.6	2851.5	2741.2	2581.1	2461.9	2310.7	2309.0	2218.2
2584.7	12.5°	2721.7	2812.4	2933.3	2881.7	2618.5	2399.7	2205.8	2040.3	1971.0	1924.7
2627.4	15°	2789.2	2938.7	3002.7	2780.4	2403.2	2107.9	1857.1	1679.2	1608.1	1574.3
2680.7	17.5°	2851.5	3059.6	3031.2	2602.5	2138.2	1807.3	1508.5	1353.7	1334.1	1309.2
2766.1	20°	2936.9	3104.1	2929.8	2371.2	1837.6	1419.5	1229.2	1154.5	1172.3	1182.9
2775.0	22.5°	3016.9	3127.2	2801.7	2118.6	1451.5	1124.2	1030.0	1046.0	1072.7	1108.2
2796.4	25°	3052.5	3164.6	2629.2	1770.0	1104.7	946.4	925.0	951.7	996.2	997.9
2826.6	27.5°	3075.6	3137.9	2421.0	1430.2	873.4	827.2	859.2	878.8	884.1	905.4
2890.6	30°	3116.6	3082.8	2157.8	1022.8	732.9	734.7	775.6	775.6	775.6	791.6
2954.7	32.5°	3187.7	3045.4	1850.0	747.1	631.5	688.4	677.7	674.2	667.1	647.5
3036.5	35°	3232.2	2944.0	1460.4	553.2	567.5	631.5	627.9	572.8	480.3	434.0
3244.6	37.5°	3324.7	2892.4	1074.4	426.9	530.1	603.0	583.5	450.1	348.7	304.2
3502.6	40°	3523.9	2858.6	743.6	373.6	505.2	588.8	521.2	384.2	266.8	188.6
3901.0	42.5°	3767.6	2860.4	505.2	352.2	507.0	619.0	501.6	329.1	188.6	151.2
4432.9	45°	4094.9	2833.7	346.9	352.2	539.0	668.9	514.1	298.8	183.2	192.1
5100.0	47.5°	4447.1	2856.8	257.9	320.2	544.3	670.6	469.6	293.5	176.1	222.4
5825.8	50°	4858.1	2880.0	213.5	295.3	546.1	649.3	432.3	286.4	183.2	234.8
6658.3	52.5°	5281.4	2952.9	181.4	279.3	567.5	640.4	432.3	297.1	183.2	204.6
7718.5	55°	5912.9	3139.7	261.5	348.7	645.7	699.1	531.9	416.3	256.2	263.3
8734.2	57.5°	6610.2	3331.8	291.7	366.4	663.5	629.7	572.8	458.9	270.4	272.2
9524.0	60°	7069.2	3338.9	290.0	357.6	620.8	544.3	560.3	483.8	275.7	233.0
10013.2	62.5°	7252.4	3121.9	302.4	357.6	578.1	508.8	574.6	521.2	284.6	291.7
10151.9	65°	7044.3	2673.6	291.7	320.2	508.8	455.4	578.1	528.3	311.3	293.5
9902.9	67°	6718.7	2303.6	297.1	304.2	473.2	432.3	608.4	555.0	361.1	352.2
9773.0	67.5°	6626.2	2205.8	295.3	295.3	460.7	425.1	615.5	555.0	368.2	364.7
8625.7	70°	5840.0	1787.8	302.4	291.7	407.4	403.8	654.6	585.2	423.4	426.9
6336.3	72.5°	4445.4	1355.5	300.6	291.7	354.0	386.0	660.0	604.8	460.7	426.9
3548.8	75°	2526.0	811.2	265.0	254.4	279.3	336.2	617.3	576.3	448.3	382.5
1417.7	77.5°	1044.2	418.0	243.7	229.5	231.3	273.9	514.1	537.2	426.9	325.5
473.2	80°	389.6	250.8	195.7	183.2	177.9	201.0	366.4	428.7	364.7	266.8
208.1	82.5°	202.8	156.5	133.4	133.4	121.0	128.1	197.5	284.6	275.7	183.2
83.6	85°	103.2	88.9	76.5	74.7	67.6	60.5	99.6	169.0	158.3	101.4
37.4	87.5°	55.1	49.8	32.0	30.2	24.9	16.0	17.8	33.8	55.1	44.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
2360.5
2607.8
2695.0
2520.6
2214.7
1914.1
1567.2
1321.7
1170.5
1088.7
1015.7
925.0
809.4
636.8
455.4
302.4
183.2
147.6
195.7
247.3
272.2
209.9
277.5
263.3
240.1
295.3
288.2
346.9
357.6
394.9
378.9
341.5
307.7
243.7
144.1
83.6
32.0
0.0

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