

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: P477336

Luminaire Tested: **IFLD-S-SA2E-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477336
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

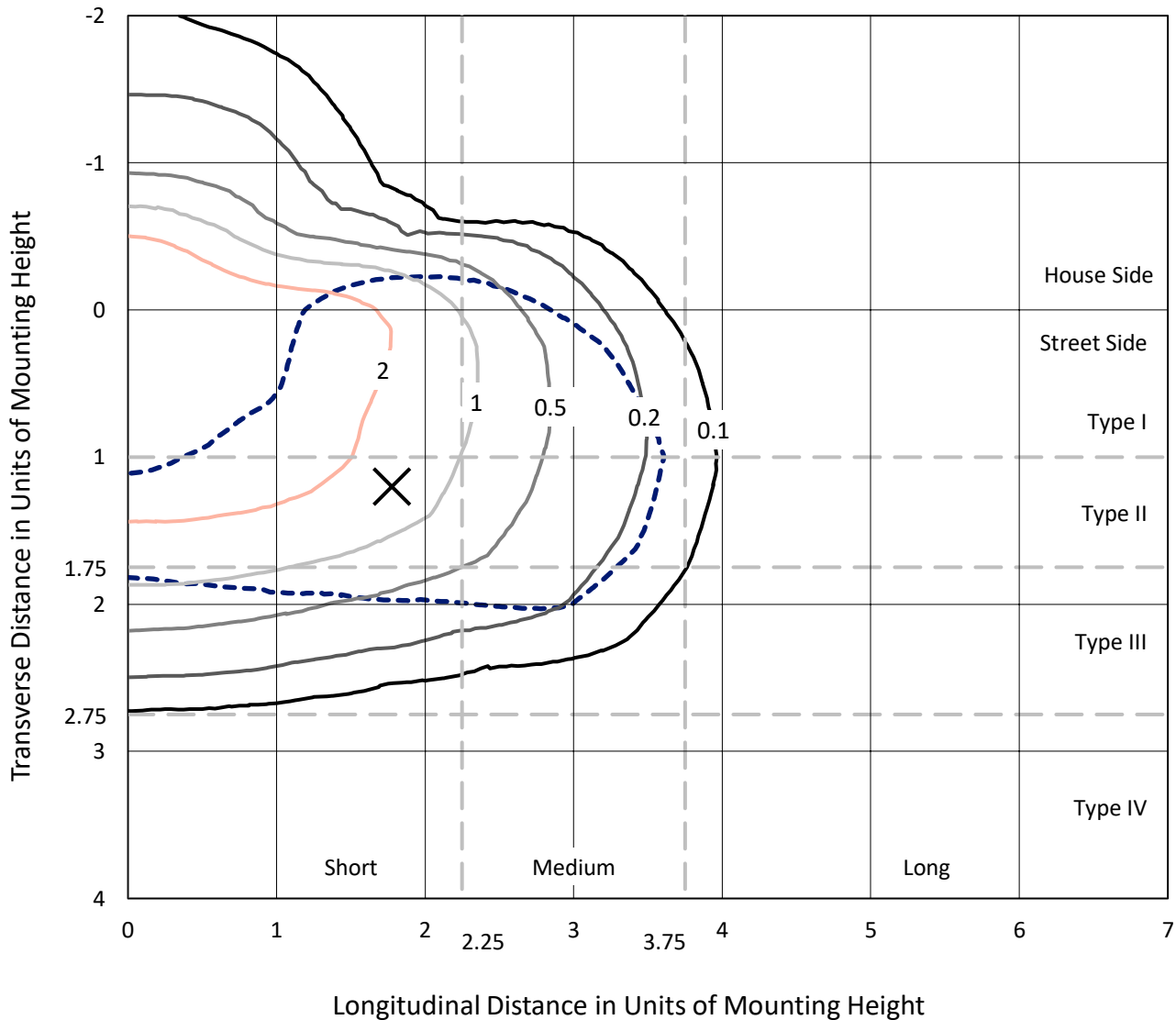
Lumens per Lamp: N/A
Luminaire Lumens: 18182 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (A_{in}): 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

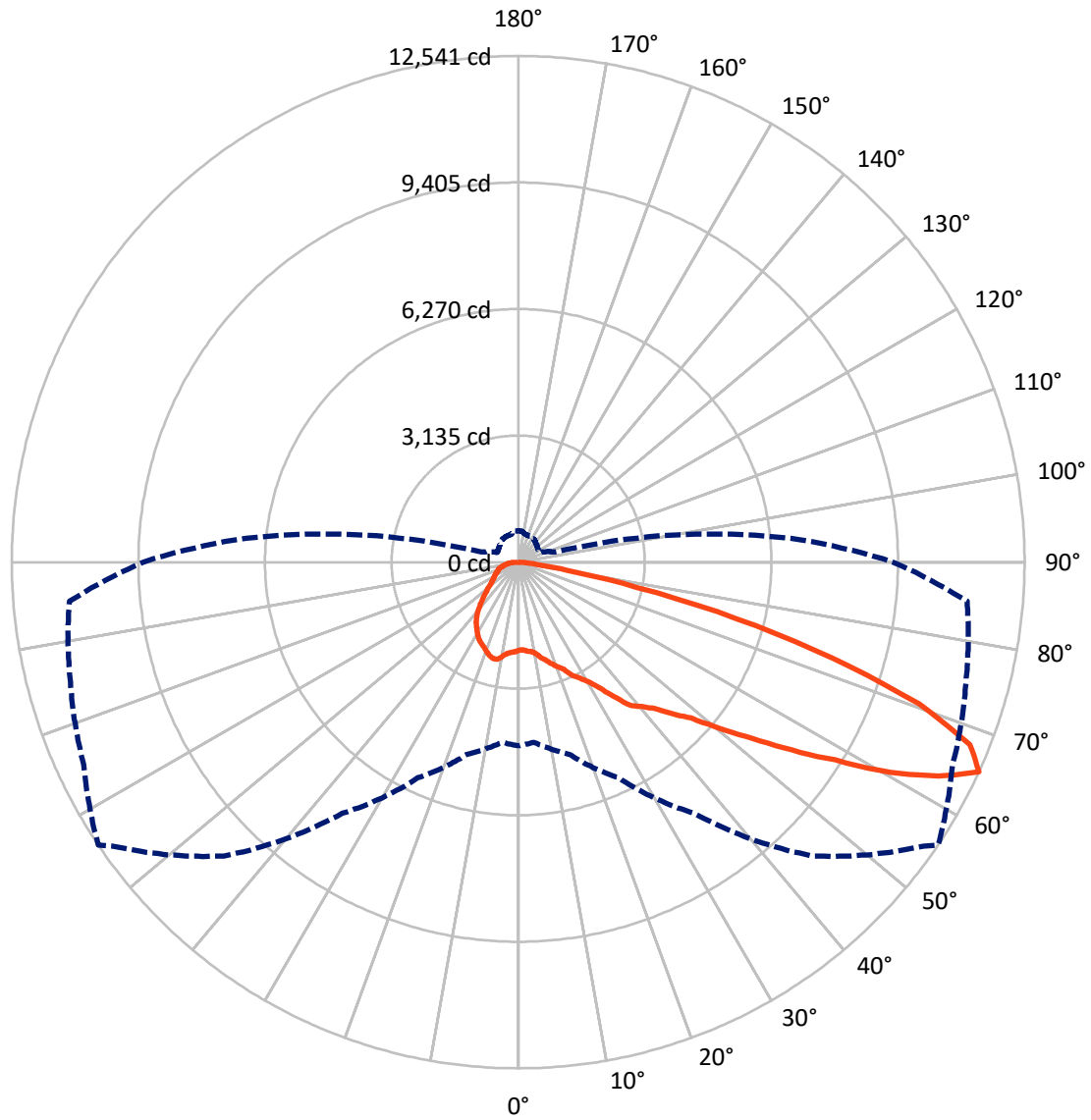
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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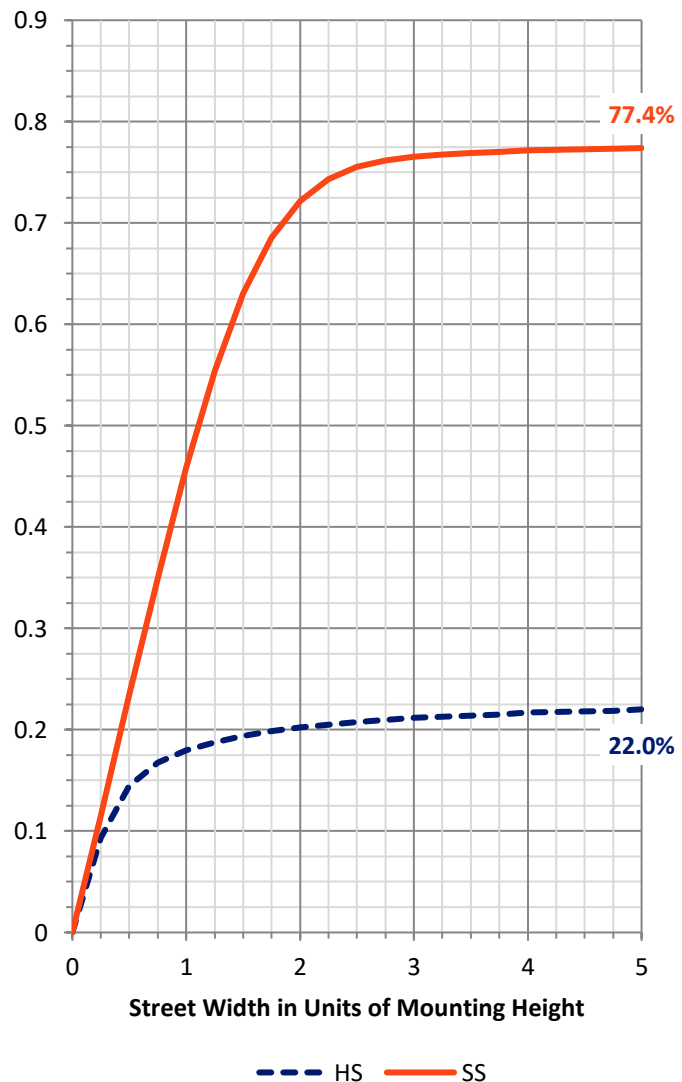
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4077.6	0.0	4077.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14104.4	0.0	14104.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	18182.0	0.0	18182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.2
10°-20°	702.2	3.9
20°-30°	1250.4	6.9
30°-40°	1872.4	10.3
40°-50°	2774.2	15.3
50°-60°	4274.7	23.5
60°-70°	4839.4	26.6
70°-80°	2008.4	11.0
80°-90°	244.0	1.3
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°	18182.0	100.0
0°-180°	18182.0	100.0

Coefficient of Utilization

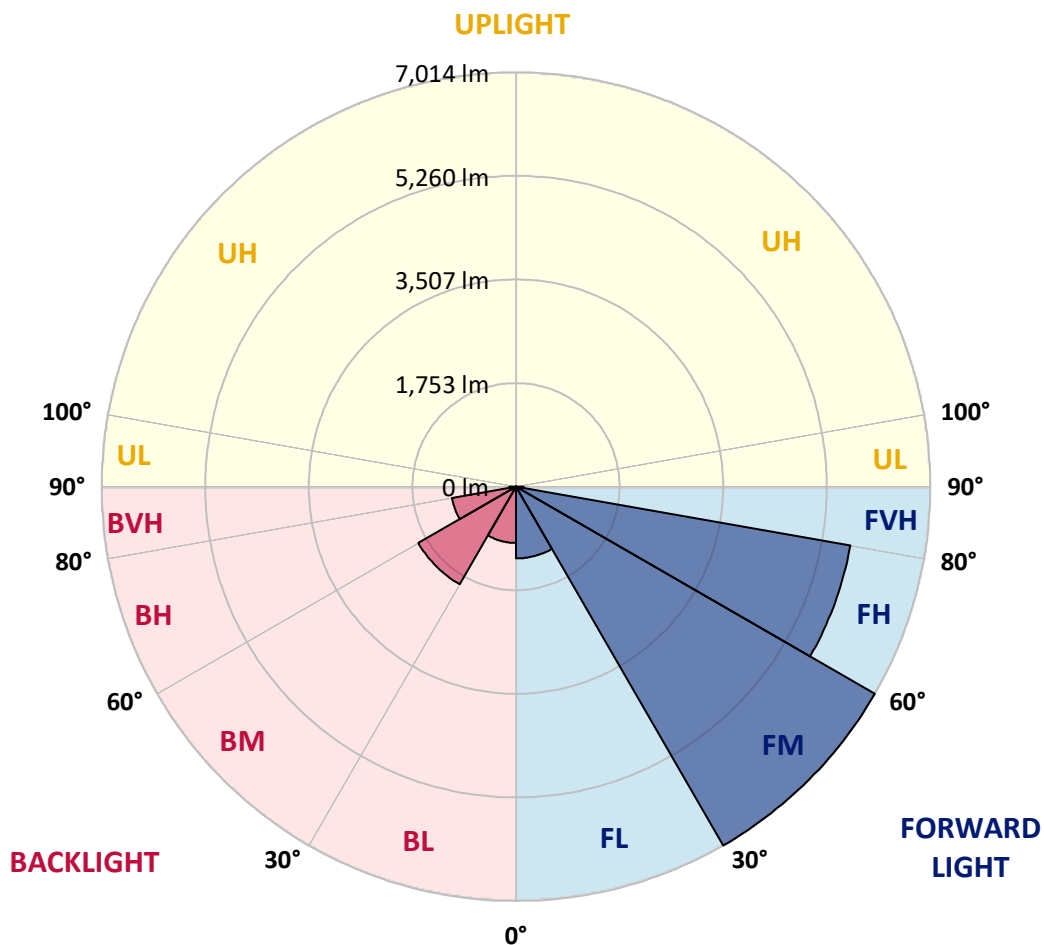


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.1	6.7			
FM (30°-60°)	7013.8	38.6			
FH (60°-80°)	5746.8	31.6			G3/7500
FVH (80°-90°)	128.7	0.7			G2/225
BL (0°-30°)	953.8	5.2	B2/1000		
BM (30°-60°)	1907.5	10.5	B2/2500		
BH (60°-80°)	1101.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	115.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4
2.5°	2125.3	2136.7	2129.1	2151.9	2170.9	2170.9	2186.2	2174.8	2190.0	2210.9
5°	2195.7	2150.0	2174.8	2186.2	2180.5	2190.0	2174.8	2212.8	2188.1	2228.0
7.5°	2212.8	2229.9	2250.9	2231.8	2249.0	2239.4	2241.3	2235.6	2222.3	2254.7
10°	2338.4	2313.6	2361.2	2332.7	2328.9	2325.1	2317.5	2288.9	2321.3	2323.2
12.5°	2483.0	2460.2	2458.2	2435.4	2465.9	2410.7	2422.1	2406.9	2412.6	2420.2
15°	2587.6	2578.1	2621.9	2595.2	2555.3	2530.5	2557.2	2515.3	2536.3	2532.5
17.5°	2795.0	2793.1	2760.8	2717.0	2694.2	2658.0	2652.3	2635.2	2650.4	2642.8
20°	2939.6	2960.6	2966.3	2914.9	2827.4	2787.4	2777.9	2764.6	2781.7	2776.0
22.5°	3160.3	3128.0	3152.7	3063.3	3031.0	2935.8	2901.6	2882.5	2964.4	2943.4
25°	3301.1	3335.4	3310.6	3280.2	3207.9	3089.9	3065.2	3107.1	3139.4	3116.6
27.5°	3618.9	3584.6	3561.8	3470.5	3422.9	3299.2	3270.7	3255.5	3263.1	3276.4
30°	3860.5	3879.5	3828.2	3763.5	3643.6	3518.0	3451.4	3438.1	3411.5	3388.7
32.5°	4204.9	4176.4	4145.9	4104.1	4001.3	3835.8	3771.1	3721.6	3641.7	3535.2
35°	4370.4	4452.2	4429.4	4317.2	4239.1	4176.4	4157.3	4081.2	4014.6	3847.2
37.5°	4646.3	4680.6	4648.2	4612.1	4575.9	4509.3	4486.5	4507.4	4376.1	4100.3
40°	4825.2	4897.5	4964.1	4863.2	4855.6	4868.9	4728.1	4703.4	4433.2	4288.6
42.5°	5190.5	5220.9	5234.2	5230.4	5274.2	5274.2	5005.9	4952.6	4760.5	4642.5
45°	5673.8	5698.5	5746.1	5780.3	5730.8	5755.6	5373.1	5352.2	5181.0	5158.1
47.5°	6092.3	6151.3	6257.9	6358.7	6423.4	6339.7	5921.1	5772.7	5728.9	5865.9
50°	6457.7	6387.3	6636.5	6739.3	7022.8	7161.6	6526.2	6467.2	6396.8	6659.3
52.5°	6493.8	6588.9	6940.9	7146.4	7730.5	7987.4	7268.2	7243.5	7157.8	7460.4
55°	6752.6	6741.2	7095.1	7540.3	8234.8	8666.7	8234.8	8219.5	8033.1	8320.4
57.5°	6708.8	6824.9	7104.6	7726.7	8689.5	9395.4	9355.4	9250.8	8990.1	9224.1
60°	6560.4	6590.8	6931.4	7721.0	8954.0	10143.1	10565.5	10586.4	10053.7	10240.2
62.5°	5719.4	5789.8	6221.7	7114.1	8765.6	10658.8	11747.1	11672.9	11246.7	11033.6
65°	4549.3	4478.9	4927.9	5892.6	7593.6	10293.4	12264.6	12540.5	11870.8	11480.7
67.5°	2789.3	2772.2	3204.1	4054.6	5681.4	8759.9	11851.7	12066.7	11697.6	11385.6
70°	1436.5	1392.8	1662.9	2262.3	3571.3	6427.2	10314.4	10525.6	10877.6	10211.6
72.5°	669.7	660.2	804.8	1113.1	1819.0	3778.7	7987.4	8139.6	8881.7	8609.6
75°	393.9	399.6	481.4	582.2	886.6	1780.9	5300.8	5595.7	6400.6	6204.6
77.5°	294.9	294.9	342.5	405.3	517.5	688.8	2616.2	3006.2	3742.5	3365.8
80°	216.9	220.7	262.6	304.4	359.6	355.8	1038.9	1217.7	1716.2	1467.0
82.5°	169.3	175.0	203.6	226.4	253.1	215.0	426.2	458.5	705.9	561.3
85°	118.0	121.8	159.8	154.1	154.1	119.9	176.9	186.5	279.7	266.4
87.5°	28.5	32.3	78.0	85.6	64.7	36.2	55.2	62.8	100.8	116.1
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°
2182.4	0°	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4
2220.4	2.5°	2191.9	2199.5	2231.8	2214.7	2224.2	2184.3	2216.6	2190.0	2212.8	2201.4
2237.5	5°	2252.8	2235.6	2254.7	2241.3	2241.3	2256.6	2279.4	2262.3	2296.5	2281.3
2250.9	7.5°	2277.5	2279.4	2290.8	2292.7	2283.2	2330.8	2332.7	2327.0	2359.3	2351.7
2342.2	10°	2338.4	2340.3	2361.2	2372.6	2363.1	2380.2	2361.2	2346.0	2344.1	2336.5
2414.5	12.5°	2435.4	2454.4	2450.6	2460.2	2462.1	2389.8	2346.0	2271.8	2262.3	2271.8
2521.0	15°	2524.8	2517.2	2521.0	2540.1	2460.2	2344.1	2266.1	2203.3	2207.1	2209.0
2659.9	17.5°	2631.4	2637.1	2642.8	2555.3	2408.8	2271.8	2203.3	2203.3	2184.3	2191.9
2757.0	20°	2753.2	2730.3	2680.9	2557.2	2319.4	2188.1	2167.1	2167.1	2144.3	2129.1
2861.6	22.5°	2848.3	2802.6	2728.4	2498.2	2239.4	2155.7	2104.4	2068.2	2041.6	2011.1
2977.7	25°	2909.2	2884.4	2739.8	2437.3	2180.5	2070.1	1994.0	1938.8	1904.6	1864.6
3069.0	27.5°	3002.4	2954.8	2772.2	2366.9	2115.8	1984.5	1866.5	1780.9	1716.2	1674.3
3207.9	30°	3128.0	3059.5	2749.4	2266.1	2016.8	1836.1	1697.2	1586.8	1512.6	1478.4
3339.2	32.5°	3230.7	3141.3	2730.3	2174.8	1906.5	1685.8	1501.2	1388.9	1347.1	1303.3
3559.9	35°	3426.7	3249.8	2717.0	2123.4	1807.5	1535.5	1341.4	1244.3	1191.1	1126.4
3691.2	37.5°	3577.0	3438.1	2684.7	2016.8	1680.1	1388.9	1219.6	1132.1	1052.2	983.7
3995.6	40°	3812.9	3700.7	2686.6	1866.5	1529.7	1263.4	1124.5	1033.1	932.3	873.3
4446.5	42.5°	4256.3	3959.5	2698.0	1746.7	1360.4	1160.6	1038.9	930.4	829.6	780.1
4960.3	45°	4800.4	4315.3	2627.6	1638.2	1187.3	1063.6	936.1	827.7	763.0	726.8
5658.5	47.5°	5426.4	4663.4	2532.5	1434.6	1042.7	960.8	841.0	778.2	730.6	709.7
6558.5	50°	6126.6	5161.9	2505.8	1248.2	930.4	873.3	795.3	747.7	715.4	690.7
7572.6	52.5°	7028.5	5742.3	2452.5	1056.0	833.4	802.9	778.2	745.8	717.3	696.4
8518.2	55°	7890.4	6385.4	2395.5	898.1	764.9	768.7	782.0	753.5	728.7	696.4
9578.0	57.5°	8860.7	7041.8	2184.3	782.0	713.5	751.6	778.2	745.8	721.1	696.4
10662.6	60°	9460.1	7410.9	1771.4	681.2	667.8	719.2	755.4	721.1	694.5	704.0
11161.1	62.5°	9703.6	7216.8	1335.7	618.4	635.5	675.4	719.2	705.9	686.9	723.0
11155.3	65°	9288.8	6769.7	955.1	565.1	591.7	631.7	686.9	702.1	707.8	778.2
10245.9	67.5°	8265.2	5894.5	702.1	521.3	546.1	605.0	709.7	734.4	730.6	818.1
8598.2	70°	6613.7	4610.2	548.0	485.2	528.9	626.0	742.0	742.0	715.4	818.1
6558.5	72.5°	4811.8	3249.8	471.9	443.3	485.2	574.6	738.2	736.3	702.1	747.7
4176.4	75°	2913.0	1891.3	416.7	401.5	416.7	492.8	705.9	694.5	646.9	643.1
2009.2	77.5°	1451.7	951.3	340.6	355.8	363.4	412.9	620.3	637.4	572.7	557.5
793.4	80°	612.7	414.8	283.5	306.3	306.3	348.2	515.6	527.0	475.7	447.1
313.9	82.5°	279.7	237.8	241.6	266.4	249.2	270.2	409.1	422.4	386.2	338.7
133.2	85°	118.0	135.1	184.6	209.3	184.6	175.0	281.6	296.8	251.2	209.3
57.1	87.5°	53.3	74.2	116.1	152.2	93.2	81.8	150.3	156.0	125.6	93.2
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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<u>180°</u>
2182.4
2180.5
2260.4
2340.3
2336.5
2275.6
2235.6
2193.8
2106.3
1994.0
1872.2
1693.4
1497.4
1301.4
1120.7
985.6
879.0
783.9
734.4
705.9
694.5
694.5
694.5
694.5
696.4
713.5
778.2
823.9
801.0
721.1
635.5
548.0
437.6
331.1
211.2
87.5
0.0

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