

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: P477515

Luminaire Tested: **IFLD-M-SA4C-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

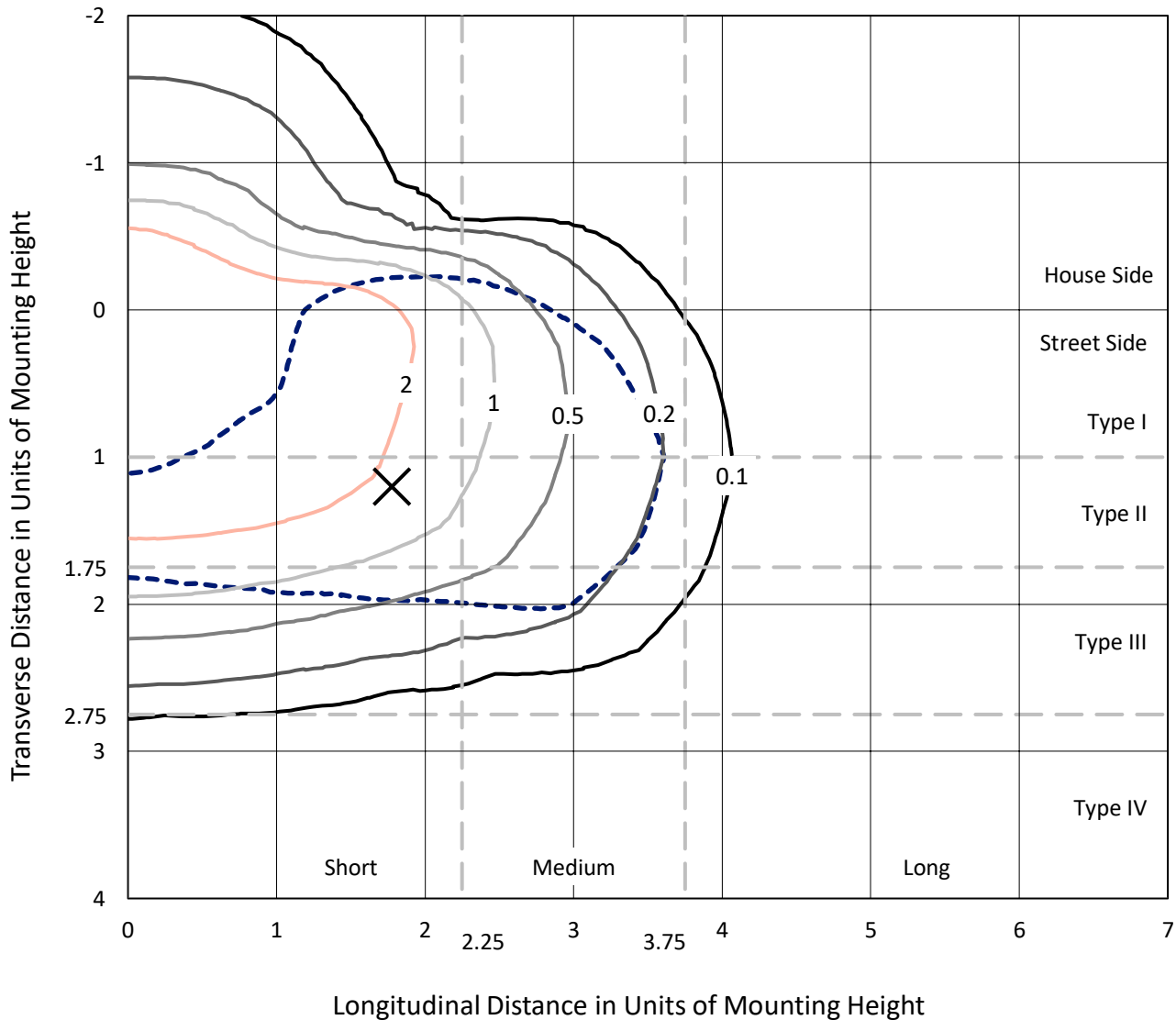
Lumens per Lamp: N/A
Luminaire Lumens: 21287.2 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

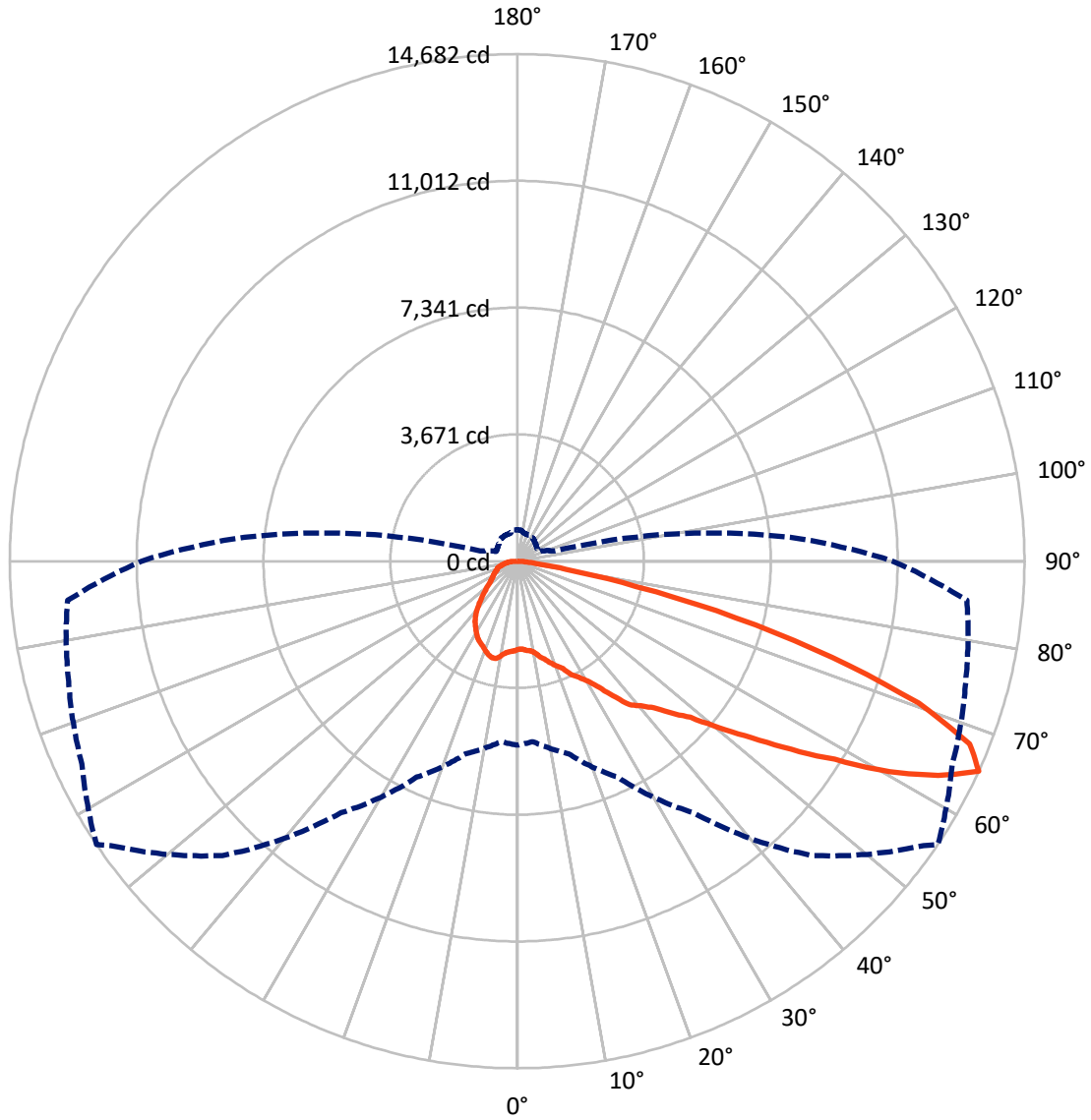
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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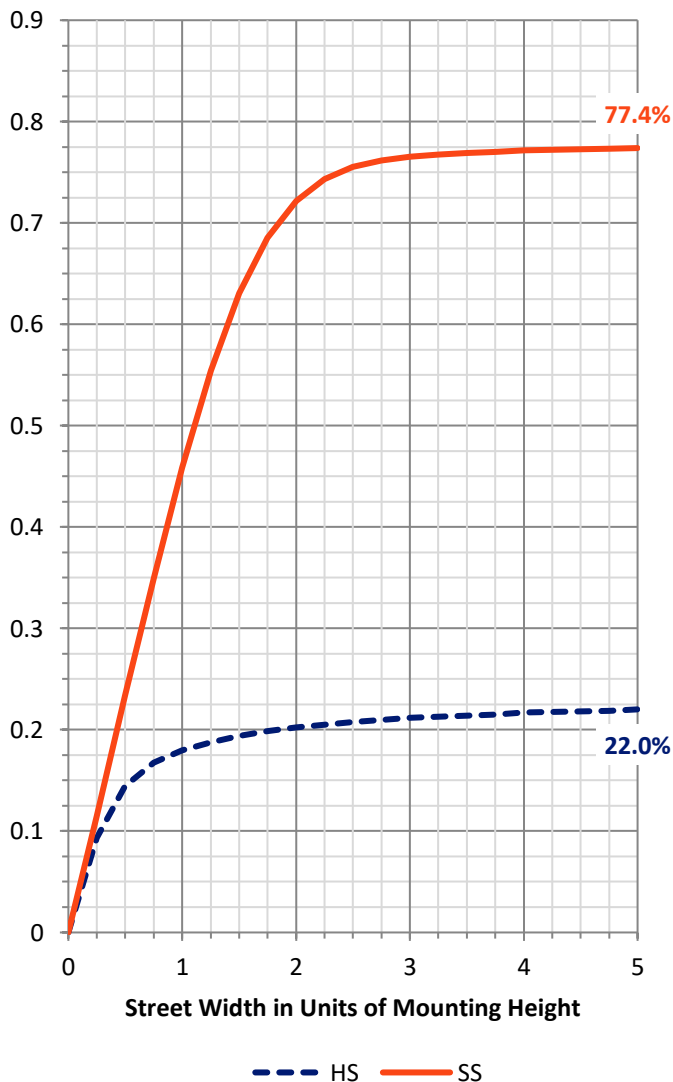
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4774.0	0.0	4774.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	16513.2	0.0	16513.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	21287.2	0.0	21287.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	1.2
10°-20°	822.2	3.9
20°-30°	1463.9	6.9
30°-40°	2192.2	10.3
40°-50°	3248.0	15.3
50°-60°	5004.7	23.5
60°-70°	5665.9	26.6
70°-80°	2351.4	11.0
80°-90°	285.7	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°	21287.2	100.0
0°-180°	21287.2	100.0

Coefficient of Utilization

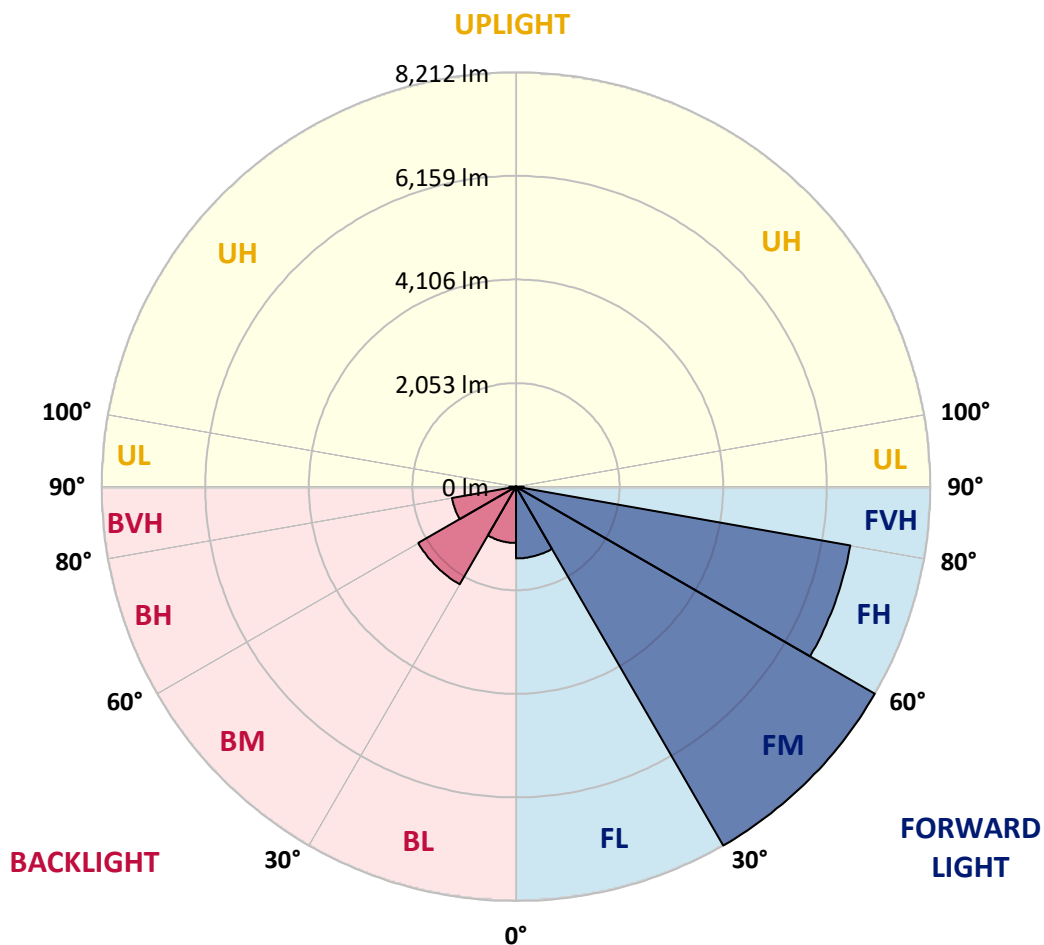


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.6	6.7			
FM (30°-60°)	8211.7	38.6			
FH (60°-80°)	6728.2	31.6			G3/7500
FVH (80°-90°)	150.7	0.7			G2/225
BL (0°-30°)	1116.7	5.2	B3/2500		
BM (30°-60°)	2233.2	10.5	B2/2500		
BH (60°-80°)	1289.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	135.0	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°	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1
2.5°	2488.2	2501.6	2492.7	2519.4	2541.7	2541.7	2559.5	2546.2	2564.0	2588.5
5°	2570.7	2517.2	2546.2	2559.5	2552.8	2564.0	2546.2	2590.7	2561.8	2608.5
7.5°	2590.7	2610.8	2635.3	2613.0	2633.0	2621.9	2624.1	2617.4	2601.9	2639.7
10°	2737.7	2708.8	2764.5	2731.1	2726.6	2722.1	2713.2	2679.8	2717.7	2719.9
12.5°	2907.0	2880.3	2878.1	2851.3	2887.0	2822.4	2835.8	2817.9	2824.6	2833.5
15°	3029.6	3018.4	3069.7	3038.5	2991.7	2962.7	2993.9	2944.9	2969.4	2965.0
17.5°	3272.4	3270.1	3232.3	3181.0	3154.3	3112.0	3105.3	3085.2	3103.1	3094.2
20°	3441.7	3466.2	3472.8	3412.7	3310.2	3263.5	3252.3	3236.7	3256.8	3250.1
22.5°	3700.1	3662.2	3691.2	3586.5	3548.6	3437.2	3397.1	3374.8	3470.6	3446.1
25°	3864.9	3905.0	3876.0	3840.4	3755.8	3617.6	3588.7	3637.7	3675.6	3648.8
27.5°	4236.9	4196.8	4170.1	4063.2	4007.5	3862.7	3829.3	3811.4	3820.4	3836.0
30°	4519.8	4542.1	4482.0	4406.2	4265.9	4118.9	4040.9	4025.3	3994.1	3967.4
32.5°	4923.0	4889.6	4854.0	4805.0	4684.7	4490.9	4415.1	4357.2	4263.7	4138.9
35°	5116.8	5212.6	5185.9	5054.5	4963.1	4889.6	4867.3	4778.2	4700.3	4504.2
37.5°	5439.8	5479.9	5442.1	5399.7	5357.4	5279.4	5252.7	5277.2	5123.5	4800.5
40°	5649.2	5733.9	5811.8	5693.8	5684.9	5700.5	5535.6	5506.7	5190.3	5021.0
42.5°	6076.9	6112.6	6128.2	6123.7	6174.9	6174.9	5860.9	5798.5	5573.5	5435.4
45°	6642.7	6671.7	6727.4	6767.5	6709.6	6738.5	6290.8	6266.3	6065.8	6039.1
47.5°	7132.8	7201.9	7326.6	7444.7	7520.4	7422.4	6932.3	6758.6	6707.3	6867.7
50°	7560.5	7478.1	7769.9	7890.2	8222.1	8384.7	7640.7	7571.7	7489.2	7796.6
52.5°	7602.8	7714.2	8126.3	8366.9	9050.8	9351.5	8509.5	8480.5	8380.3	8734.5
55°	7905.8	7892.4	8306.8	8828.0	9641.1	10146.8	9641.1	9623.3	9405.0	9741.4
57.5°	7854.6	7990.4	8317.9	9046.3	10173.5	11000.0	10953.2	10830.7	10525.5	10799.5
60°	7680.8	7716.5	8115.2	9039.7	10483.1	11875.4	12369.9	12394.4	11770.7	11989.0
62.5°	6696.2	6778.6	7284.3	8329.0	10262.6	12479.1	13753.3	13666.4	13167.4	12917.9
65°	5326.2	5243.8	5769.5	6898.9	8890.4	12051.4	14359.2	14682.2	13898.1	13441.4
67.5°	3265.7	3245.6	3751.3	4747.0	6651.7	10255.9	13875.8	14127.5	13695.4	13330.0
70°	1681.8	1630.6	1946.9	2648.6	4181.2	7524.9	12075.9	12323.2	12735.3	11955.6
72.5°	784.1	773.0	942.3	1303.2	2129.6	4424.0	9351.5	9529.7	10398.5	10080.0
75°	461.1	467.8	563.6	681.6	1038.1	2085.0	6206.1	6551.4	7493.7	7264.2
77.5°	345.3	345.3	401.0	474.5	605.9	806.4	3063.0	3519.6	4381.7	3940.6
80°	253.9	258.4	307.4	356.4	421.0	416.6	1216.3	1425.7	2009.3	1717.5
82.5°	198.3	204.9	238.4	265.1	296.3	251.7	499.0	536.9	826.4	657.1
85°	138.1	142.6	187.1	180.4	180.4	140.3	207.2	218.3	327.5	311.9
87.5°	33.4	37.9	91.3	100.2	75.7	42.3	64.6	73.5	118.1	135.9
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°
2555.1	0°	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1
2599.6	2.5°	2566.2	2575.1	2613.0	2592.9	2604.1	2557.3	2595.2	2564.0	2590.7	2577.3
2619.7	5°	2637.5	2617.4	2639.7	2624.1	2624.1	2641.9	2668.7	2648.6	2688.7	2670.9
2635.3	7.5°	2666.5	2668.7	2682.0	2684.3	2673.1	2728.8	2731.1	2724.4	2762.2	2753.3
2742.2	10°	2737.7	2740.0	2764.5	2777.8	2766.7	2786.7	2764.5	2746.6	2744.4	2735.5
2826.8	12.5°	2851.3	2873.6	2869.2	2880.3	2882.5	2797.9	2746.6	2659.8	2648.6	2659.8
2951.6	15°	2956.0	2947.1	2951.6	2973.9	2880.3	2744.4	2653.1	2579.6	2584.0	2586.3
3114.2	17.5°	3080.8	3087.5	3094.2	2991.7	2820.2	2659.8	2579.6	2579.6	2557.3	2566.2
3227.8	20°	3223.4	3196.6	3138.7	2993.9	2715.5	2561.8	2537.3	2537.3	2510.5	2492.7
3350.3	22.5°	3334.7	3281.3	3194.4	2924.9	2621.9	2523.9	2463.7	2421.4	2390.2	2354.6
3486.2	25°	3406.0	3377.1	3207.8	2853.6	2552.8	2423.6	2334.5	2269.9	2229.8	2183.1
3593.1	27.5°	3515.2	3459.5	3245.6	2771.2	2477.1	2323.4	2185.3	2085.0	2009.3	1960.3
3755.8	30°	3662.2	3582.0	3218.9	2653.1	2361.3	2149.6	1987.0	1857.8	1771.0	1730.9
3909.5	32.5°	3782.5	3677.8	3196.6	2546.2	2232.1	1973.7	1757.6	1626.2	1577.2	1525.9
4167.9	35°	4011.9	3804.8	3181.0	2486.0	2116.2	1797.7	1570.5	1456.9	1394.5	1318.7
4321.6	37.5°	4187.9	4025.3	3143.2	2361.3	1967.0	1626.2	1427.9	1325.4	1231.9	1151.7
4678.0	40°	4464.1	4332.7	3145.4	2185.3	1791.0	1479.1	1316.5	1209.6	1091.5	1022.5
5205.9	42.5°	4983.2	4635.7	3158.8	2044.9	1592.7	1358.8	1216.3	1089.3	971.2	913.3
5807.4	45°	5620.3	5052.2	3076.3	1918.0	1390.0	1245.2	1096.0	969.0	893.3	850.9
6624.9	47.5°	6353.2	5459.9	2965.0	1679.6	1220.7	1124.9	984.6	911.1	855.4	830.9
7678.6	50°	7172.9	6043.5	2933.8	1461.3	1089.3	1022.5	931.1	875.5	837.6	808.6
8865.9	52.5°	8228.8	6722.9	2871.4	1236.3	975.7	940.1	911.1	873.2	839.8	815.3
9973.0	55°	9237.9	7475.9	2804.6	1051.4	895.5	900.0	915.5	882.1	853.2	815.3
11213.8	57.5°	10374.0	8244.4	2557.3	915.5	835.4	879.9	911.1	873.2	844.3	815.3
12483.5	60°	11075.7	8676.6	2073.9	797.5	781.9	842.0	884.4	844.3	813.1	824.2
13067.2	62.5°	11360.8	8449.3	1563.8	724.0	744.0	790.8	842.0	826.4	804.2	846.5
13060.5	65°	10875.2	7925.8	1118.3	661.6	692.8	739.6	804.2	822.0	828.7	911.1
11995.7	67.5°	9676.8	6901.1	822.0	610.4	639.3	708.4	830.9	859.9	855.4	957.9
10066.6	70°	7743.2	5397.5	641.6	568.0	619.3	732.9	868.8	868.8	837.6	957.9
7678.6	72.5°	5633.6	3804.8	552.4	519.0	568.0	672.7	864.3	862.1	822.0	875.5
4889.6	75°	3410.5	2214.2	487.8	470.0	487.8	577.0	826.4	813.1	757.4	752.9
2352.4	77.5°	1699.7	1113.8	398.7	416.6	425.5	483.4	726.2	746.3	670.5	652.7
928.9	80°	717.3	485.6	331.9	358.6	358.6	407.7	603.7	617.0	556.9	523.5
367.6	82.5°	327.5	278.5	282.9	311.9	291.8	316.3	478.9	494.5	452.2	396.5
155.9	85°	138.1	158.2	216.1	245.0	216.1	204.9	329.7	347.5	294.0	245.0
66.8	87.5°	62.4	86.9	135.9	178.2	109.2	95.8	176.0	182.7	147.0	109.2
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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180°
2555.1
2552.8
2646.4
2740.0
2735.5
2664.2
2617.4
2568.4
2466.0
2334.5
2192.0
1982.6
1753.1
1523.7
1312.1
1153.9
1029.2
917.8
859.9
826.4
813.1
813.1
813.1
813.1
815.3
835.4
911.1
964.6
937.8
844.3
744.0
641.6
512.4
387.6
247.3
102.5
0.0

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