

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: P477282

Luminaire Tested: **IFLD-M-SA4D-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

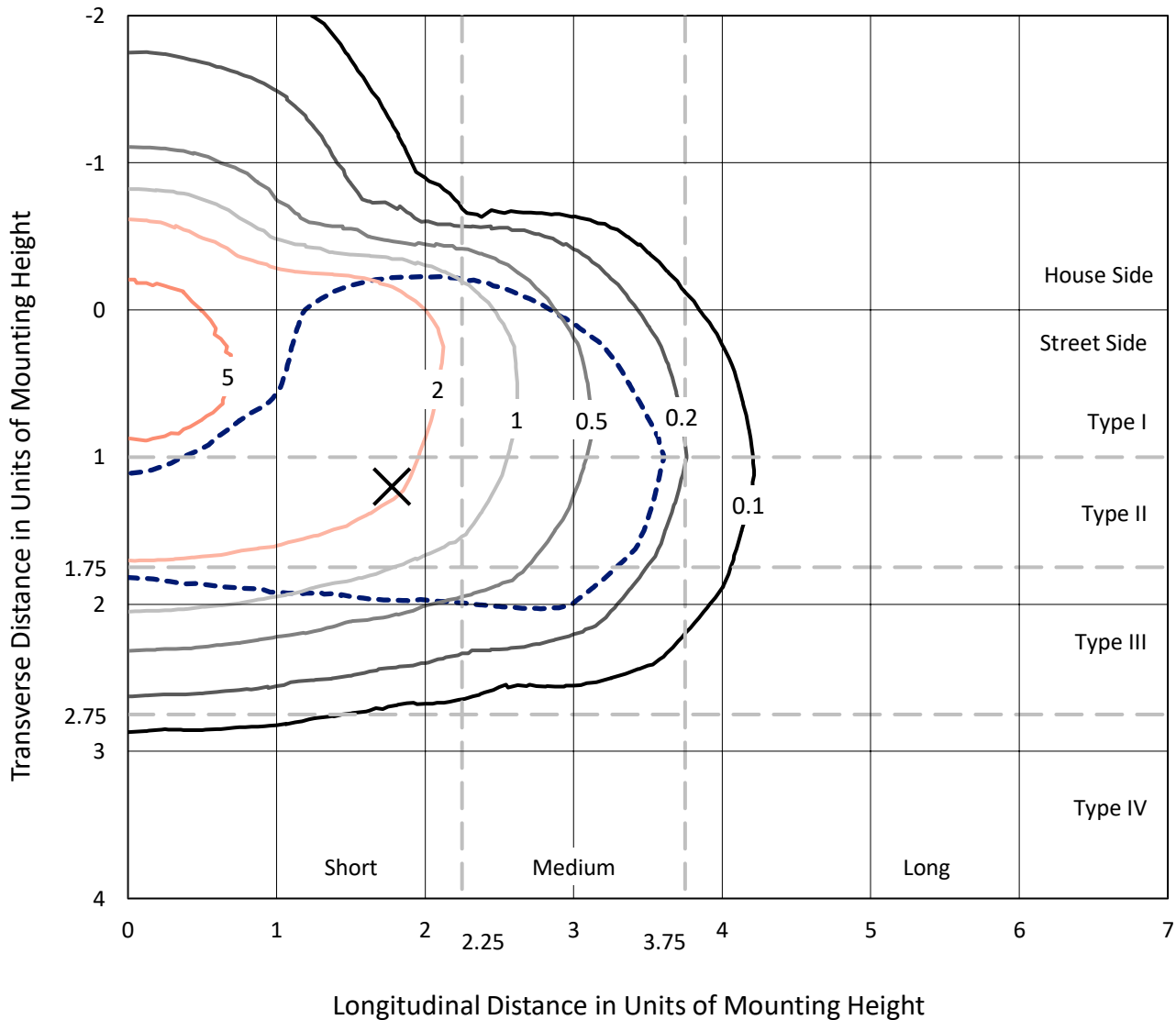
Lumens per Lamp: N/A
Luminaire Lumens: 26647.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

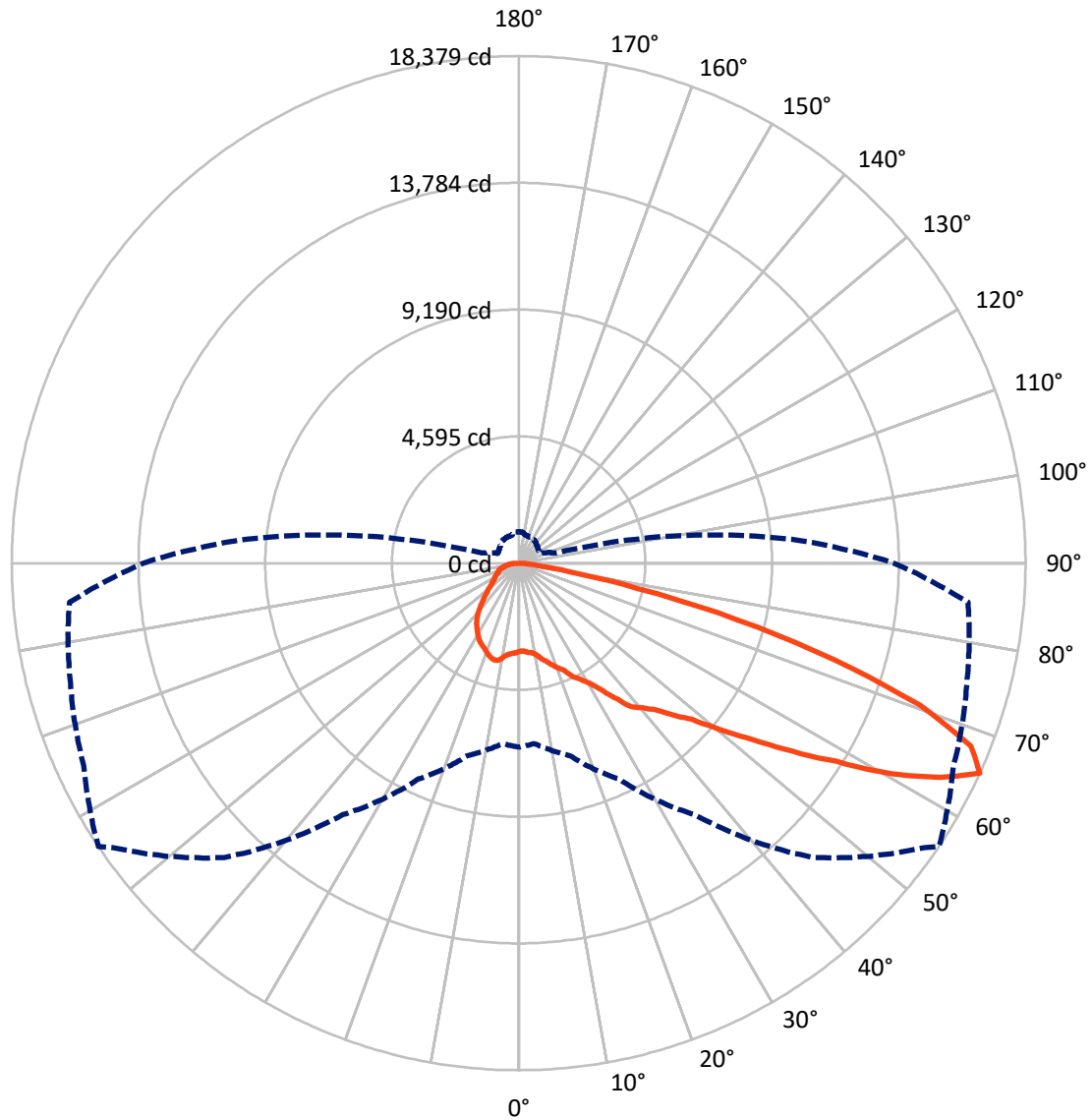
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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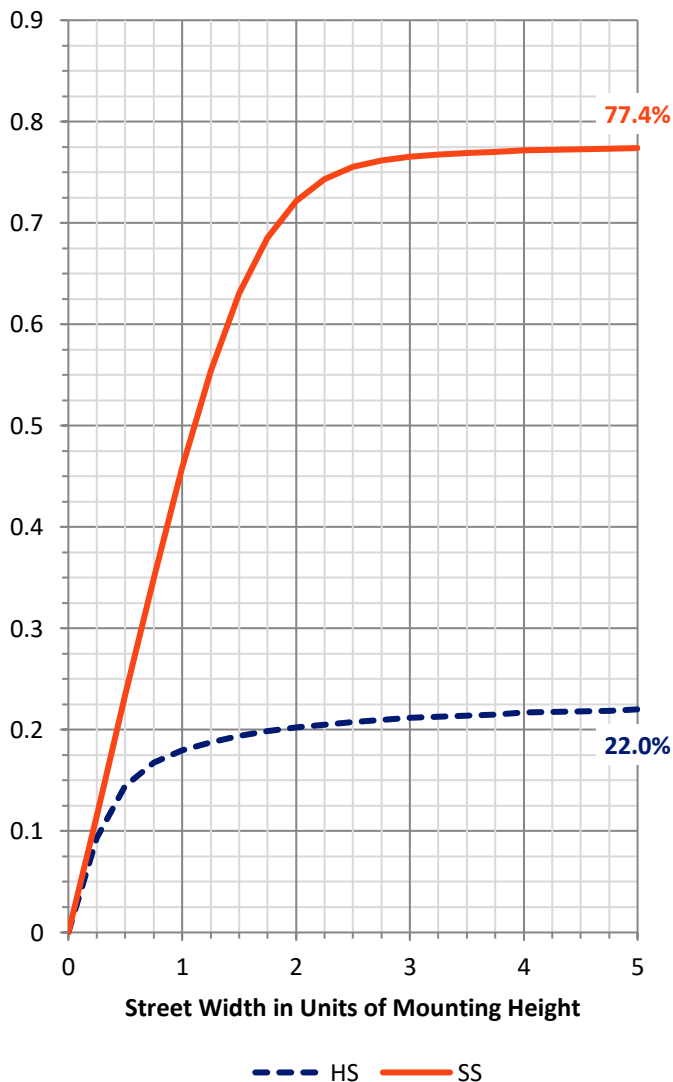
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5976.1	0.0	5976.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	20671.2	0.0	20671.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	26647.3	0.0	26647.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.2
10°-20°	1029.2	3.9
20°-30°	1832.5	6.9
30°-40°	2744.2	10.3
40°-50°	4065.8	15.3
50°-60°	6264.9	23.5
60°-70°	7092.6	26.6
70°-80°	2943.5	11.0
80°-90°	357.6	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°	26647.3	100.0
0°-180°	26647.3	100.0

Coefficient of Utilization

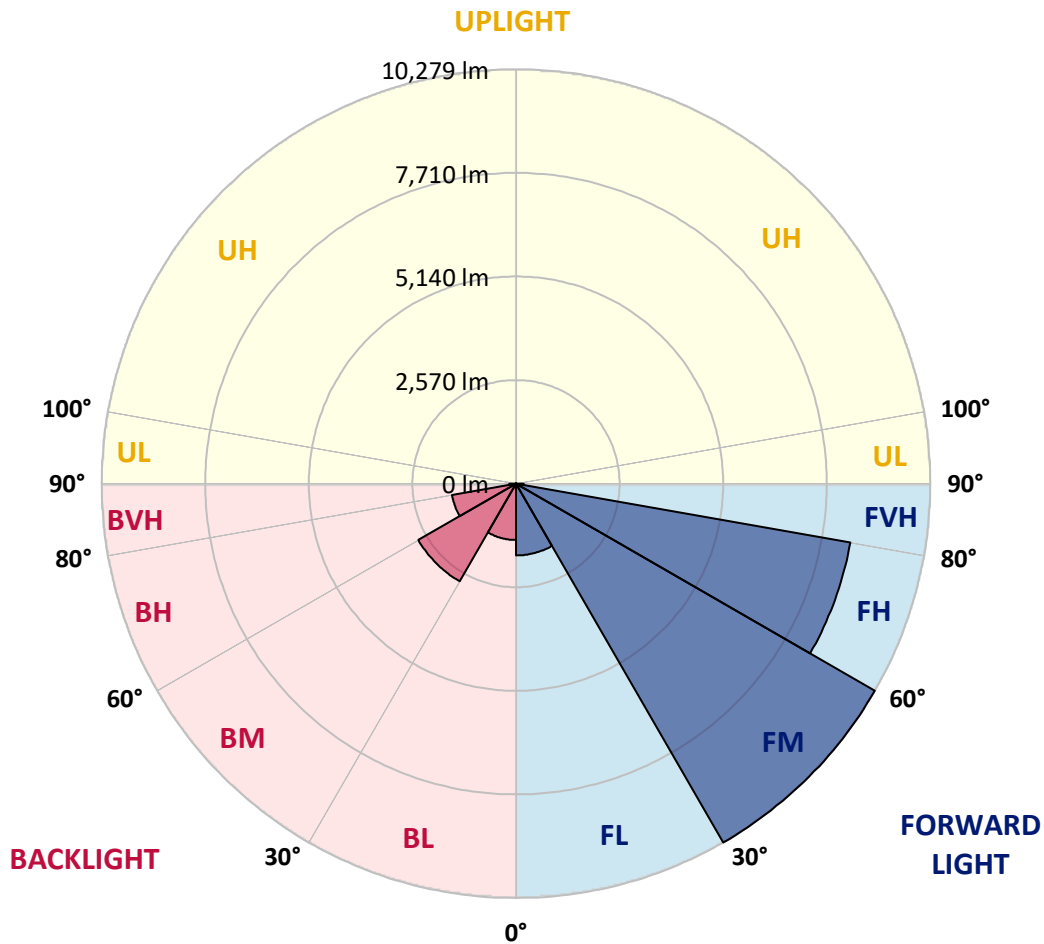


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.8	6.7			
FM (30°-60°)	10279.4	38.6			
FH (60°-80°)	8422.4	31.6			G4/12000
FVH (80°-90°)	188.6	0.7			G2/225
BL (0°-30°)	1397.9	5.2	B3/2500		
BM (30°-60°)	2795.5	10.5	B3/5000		
BH (60°-80°)	1613.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	169.0	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
2.5°	3114.8	3131.5	3120.4	3153.8	3181.7	3181.7	3204.0	3187.3	3209.6	3240.3
5°	3218.0	3151.0	3187.3	3204.0	3195.6	3209.6	3187.3	3243.1	3206.8	3265.4
7.5°	3243.1	3268.1	3298.8	3270.9	3296.0	3282.1	3284.9	3276.5	3257.0	3304.4
10°	3427.1	3390.8	3460.6	3418.7	3413.2	3407.6	3396.4	3354.6	3402.0	3404.8
12.5°	3639.0	3605.6	3602.8	3569.3	3613.9	3533.1	3549.8	3527.5	3535.8	3547.0
15°	3792.4	3778.4	3842.6	3803.5	3745.0	3708.7	3747.8	3686.4	3717.1	3711.5
17.5°	4096.3	4093.6	4046.1	3982.0	3948.5	3895.6	3887.2	3862.1	3884.4	3873.3
20°	4308.3	4338.9	4347.3	4272.0	4143.7	4085.2	4071.2	4051.7	4076.8	4068.5
22.5°	4631.7	4584.3	4620.6	4489.5	4442.1	4302.7	4252.5	4224.6	4344.5	4313.8
25°	4838.1	4888.3	4852.0	4807.4	4701.4	4528.6	4492.3	4553.7	4601.1	4567.6
27.5°	5303.8	5253.6	5220.1	5086.3	5016.6	4835.3	4793.5	4771.2	4782.3	4801.8
30°	5657.9	5685.8	5610.5	5515.7	5340.0	5156.0	5058.4	5038.9	4999.8	4966.4
32.5°	6162.6	6120.8	6076.2	6014.8	5864.3	5621.7	5526.9	5454.4	5337.2	5181.1
35°	6405.2	6525.1	6491.7	6327.2	6212.8	6120.8	6092.9	5981.4	5883.8	5638.4
37.5°	6809.6	6859.8	6812.4	6759.4	6706.4	6608.8	6575.3	6606.0	6413.6	6009.3
40°	7071.7	7177.7	7275.3	7127.5	7116.3	7135.8	6929.5	6893.2	6497.3	6285.3
42.5°	7607.1	7651.7	7671.2	7665.6	7729.8	7729.8	7336.6	7258.5	6976.9	6804.0
45°	8315.4	8351.6	8421.3	8471.5	8399.0	8435.3	7874.8	7844.1	7593.1	7559.7
47.5°	8928.8	9015.3	9171.5	9319.2	9414.1	9291.4	8677.9	8460.4	8396.2	8597.0
50°	9464.2	9361.1	9726.4	9876.9	10292.4	10496.0	9564.6	9478.2	9375.0	9759.8
52.5°	9517.2	9656.7	10172.5	10473.7	11329.8	11706.2	10652.2	10615.9	10490.4	10933.8
55°	9896.5	9879.7	10398.4	11050.9	12068.7	12701.7	12068.7	12046.4	11773.1	12194.2
57.5°	9832.3	10002.4	10412.3	11324.2	12735.2	13769.7	13711.2	13557.8	13175.8	13518.8
60°	9614.8	9659.4	10158.6	11315.8	13122.8	14865.6	15484.7	15515.3	14734.6	15007.8
62.5°	8382.3	8485.5	9118.5	10426.3	12846.7	15621.3	17216.3	17107.6	16483.0	16170.6
65°	6667.4	6564.2	7222.3	8636.1	11129.0	15085.9	17974.8	18379.2	17397.6	16825.9
67.5°	4088.0	4062.9	4695.9	5942.3	8326.5	12838.4	17369.7	17684.8	17143.8	16686.5
70°	2105.3	2041.2	2437.2	3315.6	5234.1	9419.6	15116.6	15426.1	15942.0	14966.0
72.5°	981.6	967.6	1179.5	1631.3	2665.8	5538.0	11706.2	11929.3	13016.8	12618.1
75°	577.2	585.6	705.5	853.3	1299.5	2610.1	7768.8	8201.0	9380.6	9093.4
77.5°	432.2	432.2	501.9	594.0	758.5	1009.4	3834.2	4405.9	5485.0	4932.9
80°	317.9	323.5	384.8	446.2	527.0	521.5	1522.5	1784.7	2515.2	2150.0
82.5°	248.2	256.5	298.4	331.8	370.9	315.1	624.6	672.0	1034.5	822.6
85°	172.9	178.5	234.2	225.9	225.9	175.7	259.3	273.3	409.9	390.4
87.5°	41.8	47.4	114.3	125.5	94.8	53.0	80.9	92.0	147.8	170.1
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°
3198.4	0°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
3254.2	2.5°	3212.4	3223.5	3270.9	3245.8	3259.8	3201.2	3248.6	3209.6	3243.1	3226.3
3279.3	5°	3301.6	3276.5	3304.4	3284.9	3284.9	3307.2	3340.7	3315.6	3365.7	3343.4
3298.8	7.5°	3337.9	3340.7	3357.4	3360.2	3346.2	3415.9	3418.7	3410.4	3457.8	3446.6
3432.7	10°	3427.1	3429.9	3460.6	3477.3	3463.3	3488.4	3460.6	3438.2	3435.5	3424.3
3538.6	12.5°	3569.3	3597.2	3591.6	3605.6	3608.3	3502.4	3438.2	3329.5	3315.6	3329.5
3694.8	15°	3700.4	3689.2	3694.8	3722.7	3605.6	3435.5	3321.1	3229.1	3234.7	3237.5
3898.4	17.5°	3856.5	3864.9	3873.3	3745.0	3530.3	3329.5	3229.1	3229.1	3201.2	3212.4
4040.6	20°	4035.0	4001.5	3929.0	3747.8	3399.2	3206.8	3176.1	3176.1	3142.7	3120.4
4193.9	22.5°	4174.4	4107.5	3998.7	3661.3	3282.1	3159.4	3084.1	3031.1	2992.1	2947.5
4364.0	25°	4263.7	4227.4	4015.5	3572.1	3195.6	3033.9	2922.4	2841.5	2791.3	2732.8
4497.9	27.5°	4400.3	4330.6	4062.9	3468.9	3100.8	2908.4	2735.5	2610.1	2515.2	2453.9
4701.4	30°	4584.3	4483.9	4029.4	3321.1	2955.8	2690.9	2487.4	2325.6	2216.9	2166.7
4893.9	32.5°	4734.9	4603.9	4001.5	3187.3	2794.1	2470.6	2200.1	2035.6	1974.3	1910.1
5217.3	35°	5022.1	4762.8	3982.0	3112.0	2649.1	2250.3	1965.9	1823.7	1745.6	1650.8
5409.7	37.5°	5242.4	5038.9	3934.6	2955.8	2462.3	2035.6	1787.4	1659.2	1542.1	1441.7
5855.9	40°	5588.2	5423.7	3937.4	2735.5	2242.0	1851.6	1648.0	1514.2	1366.4	1279.9
6516.8	42.5°	6237.9	5802.9	3954.1	2559.9	1993.8	1701.0	1522.5	1363.6	1215.8	1143.3
7269.7	45°	7035.4	6324.4	3850.9	2400.9	1740.0	1558.8	1372.0	1213.0	1118.2	1065.2
8293.1	47.5°	7952.9	6834.7	3711.5	2102.5	1528.1	1408.2	1232.5	1140.5	1070.8	1040.1
9612.0	50°	8979.0	7565.3	3672.5	1829.3	1363.6	1279.9	1165.6	1095.9	1048.5	1012.2
11098.3	52.5°	10300.8	8415.8	3594.4	1547.6	1221.4	1176.8	1140.5	1093.1	1051.3	1020.6
12484.2	55°	11564.0	9358.3	3510.8	1316.2	1121.0	1126.6	1146.1	1104.3	1068.0	1020.6
14037.4	57.5°	12986.2	10320.3	3201.2	1146.1	1045.7	1101.5	1140.5	1093.1	1056.9	1020.6
15626.9	60°	13864.5	10861.3	2596.1	998.3	978.8	1054.1	1107.0	1056.9	1017.8	1031.8
16357.5	62.5°	14221.5	10576.9	1957.5	906.3	931.4	989.9	1054.1	1034.5	1006.7	1059.6
16349.1	65°	13613.6	9921.6	1399.8	828.2	867.2	925.8	1006.7	1029.0	1037.3	1140.5
15016.2	67.5°	12113.3	8638.8	1029.0	764.1	800.3	886.8	1040.1	1076.4	1070.8	1199.1
12601.3	70°	9692.9	6756.6	803.1	711.1	775.2	917.4	1087.5	1087.5	1048.5	1199.1
9612.0	72.5°	7052.2	4762.8	691.6	649.7	711.1	842.1	1081.9	1079.2	1029.0	1095.9
6120.8	75°	4269.2	2771.8	610.7	588.4	610.7	722.2	1034.5	1017.8	948.1	942.5
2944.7	77.5°	2127.6	1394.3	499.1	521.5	532.6	605.1	909.1	934.2	839.3	817.0
1162.8	80°	897.9	607.9	415.5	449.0	449.0	510.3	755.7	772.4	697.1	655.3
460.1	82.5°	409.9	348.6	354.1	390.4	365.3	396.0	599.5	619.1	566.1	496.4
195.2	85°	172.9	198.0	270.5	306.7	270.5	256.5	412.7	435.0	368.1	306.7
83.7	87.5°	78.1	108.8	170.1	223.1	136.6	119.9	220.3	228.7	184.0	136.6
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°
3198.4
3195.6
3312.8
3429.9
3424.3
3335.1
3276.5
3215.2
3086.9
2922.4
2743.9
2481.8
2194.6
1907.3
1642.4
1444.5
1288.3
1148.9
1076.4
1034.5
1017.8
1017.8
1017.8
1017.8
1020.6
1045.7
1140.5
1207.4
1174.0
1056.9
931.4
803.1
641.4
485.2
309.5
128.3
0.0

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