

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: P477519

Luminaire Tested: **IFLD-L-SA7B-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

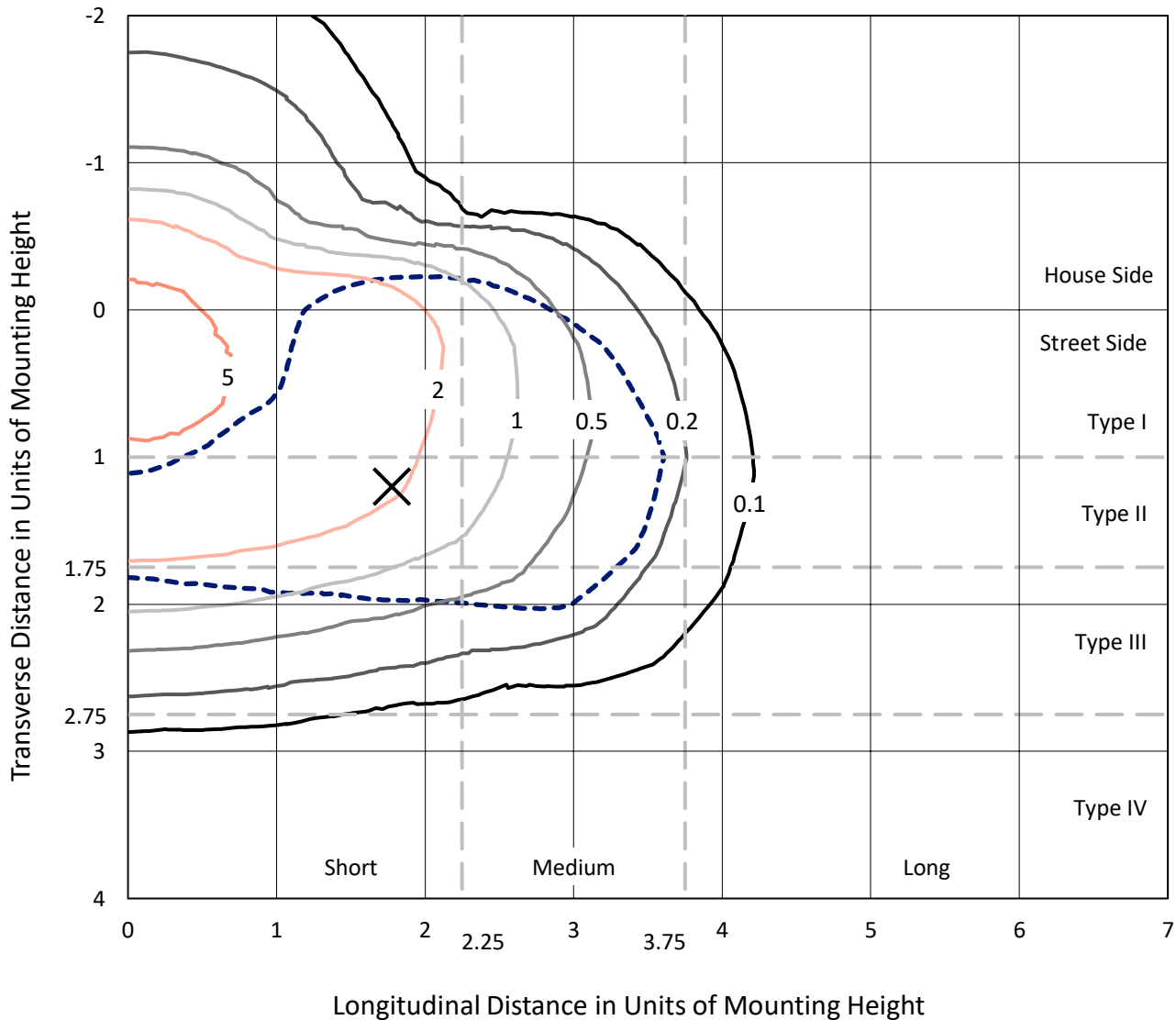
Lumens per Lamp: N/A
Luminaire Lumens: 26663.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

REPORT NUMBER: P477519
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

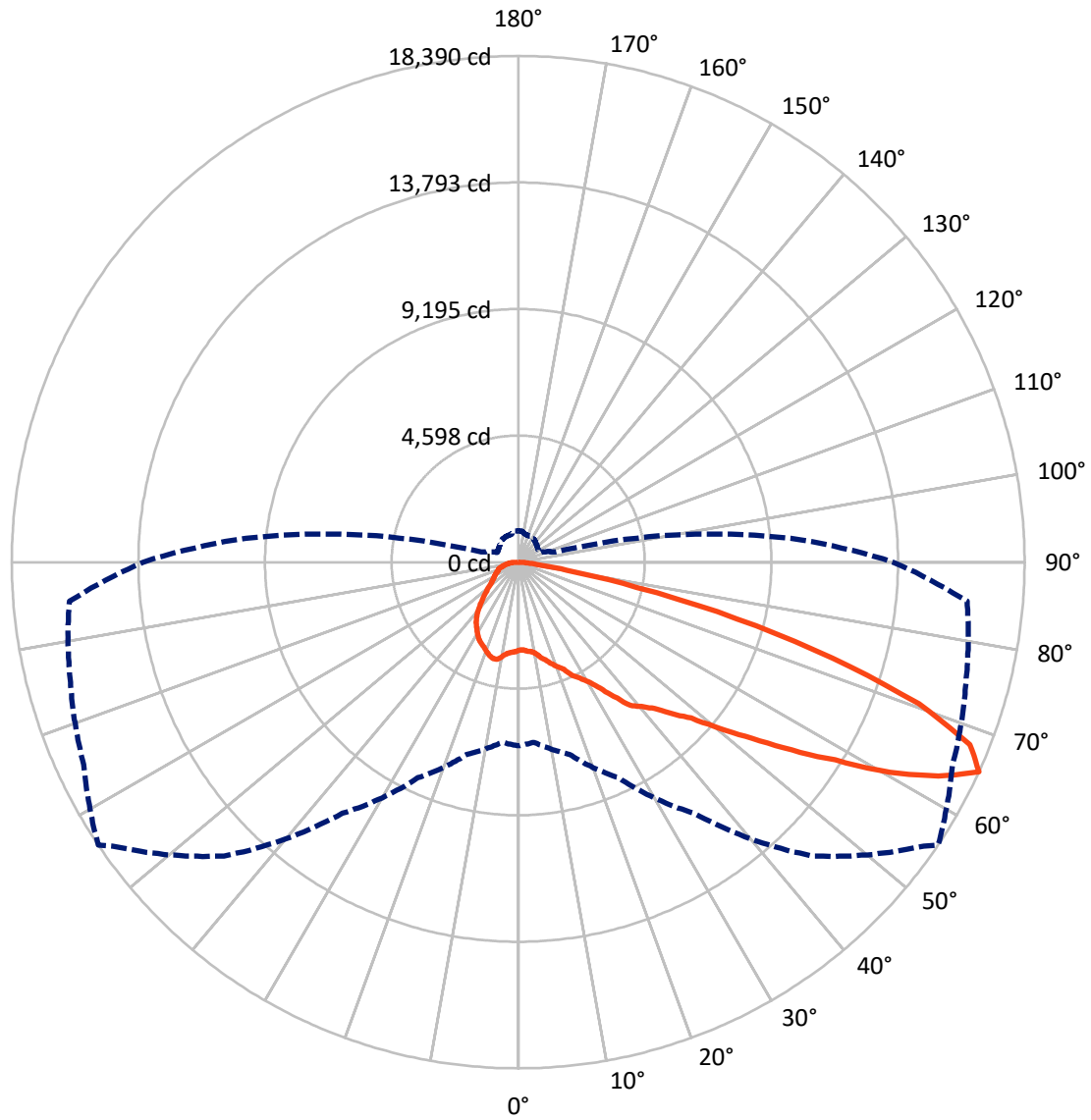
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P477519
CATALOG NUMBER: IFLD-L-SA7B-827-U-T3

Luminous Intensity Polar Plot



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

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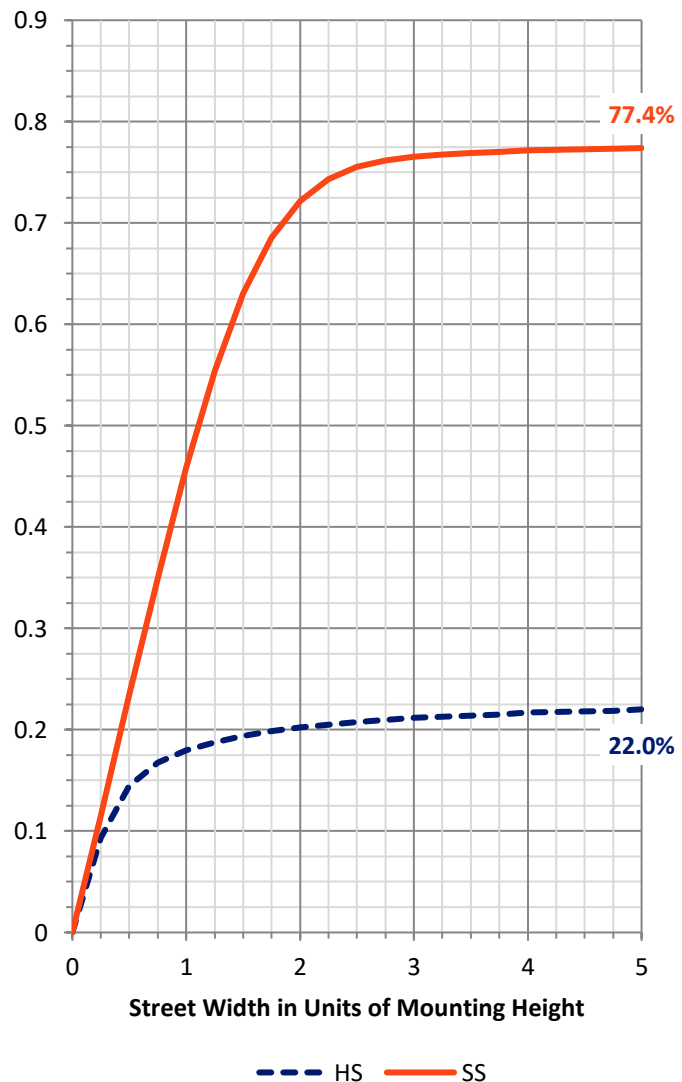
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5979.7	0.0	5979.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	20683.6	0.0	20683.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	26663.3	0.0	26663.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.2
10°-20°	1029.8	3.9
20°-30°	1833.6	6.9
30°-40°	2745.8	10.3
40°-50°	4068.3	15.3
50°-60°	6268.6	23.5
60°-70°	7096.9	26.6
70°-80°	2945.3	11.0
80°-90°	357.8	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°	26663.3	100.0
0°-180°	26663.3	100.0

Coefficient of Utilization

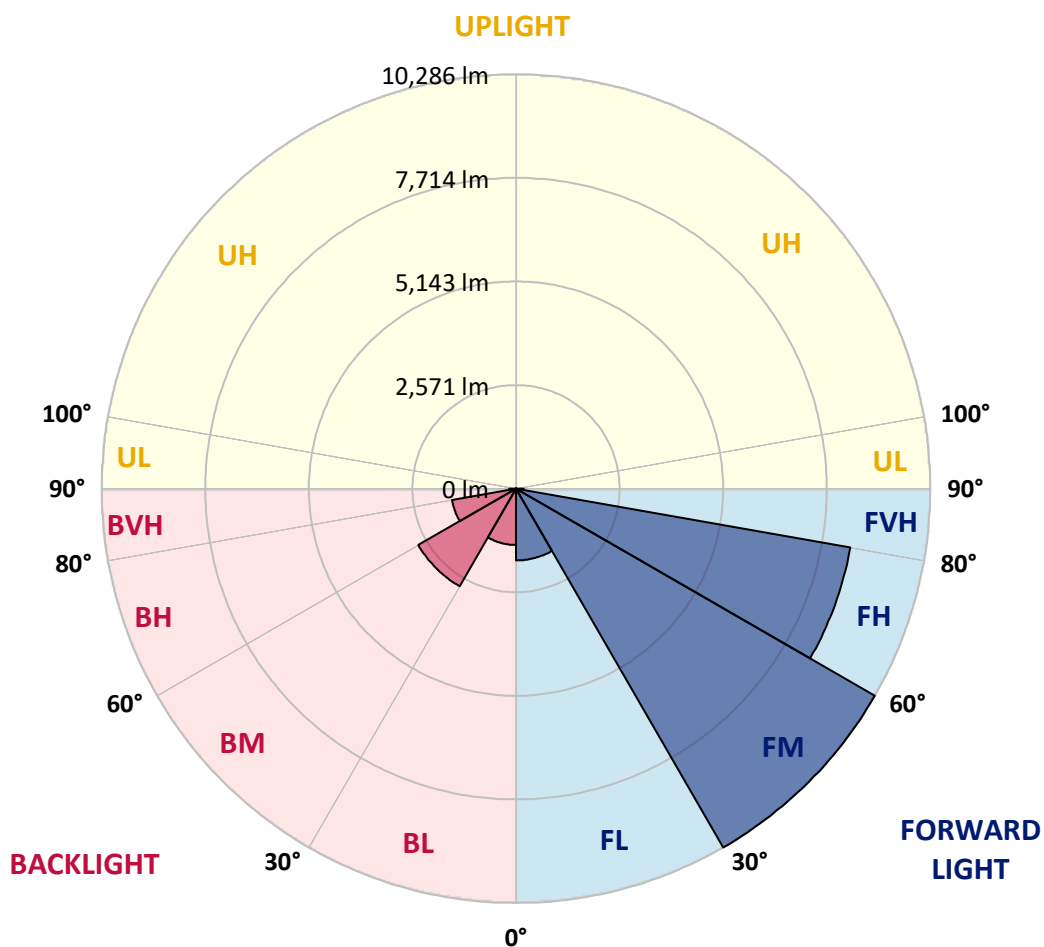


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 CATALOG NUMBER: IFLD-L-SA7B-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.9	6.7			
FM (30°-60°)	10285.5	38.6			
FH (60°-80°)	8427.4	31.6			G4/12000
FVH (80°-90°)	188.7	0.7			G2/225
BL (0°-30°)	1398.7	5.2	B3/2500		
BM (30°-60°)	2797.2	10.5	B3/5000		
BH (60°-80°)	1614.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	169.1	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





REPORT NUMBER: P477519
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4
2.5°	3116.6	3133.4	3122.2	3155.7	3183.6	3183.6	3205.9	3189.2	3211.5	3242.2
5°	3219.9	3152.9	3189.2	3205.9	3197.6	3211.5	3189.2	3245.0	3208.7	3267.3
7.5°	3245.0	3270.1	3300.8	3272.9	3298.0	3284.1	3286.8	3278.5	3258.9	3306.4
10°	3429.1	3392.9	3462.6	3420.8	3415.2	3409.6	3398.5	3356.6	3404.0	3406.8
12.5°	3641.2	3607.7	3604.9	3571.4	3616.1	3535.2	3551.9	3529.6	3538.0	3549.1
15°	3794.7	3780.7	3844.9	3805.8	3747.2	3711.0	3750.0	3688.6	3719.3	3713.7
17.5°	4098.8	4096.0	4048.6	3984.4	3950.9	3897.9	3889.5	3864.4	3886.7	3875.6
20°	4310.9	4341.5	4349.9	4274.6	4146.2	4087.6	4073.7	4054.2	4079.3	4070.9
22.5°	4634.5	4587.1	4623.4	4492.2	4444.8	4305.3	4255.0	4227.1	4347.1	4316.4
25°	4841.0	4891.2	4854.9	4810.3	4704.3	4531.3	4495.0	4556.4	4603.8	4570.3
27.5°	5307.0	5256.7	5223.2	5089.3	5019.6	4838.2	4796.3	4774.0	4785.2	4804.7
30°	5661.3	5689.2	5613.9	5519.0	5343.2	5159.1	5061.4	5041.9	5002.8	4969.3
32.5°	6166.3	6124.5	6079.8	6018.5	5867.8	5625.0	5530.2	5457.6	5340.4	5184.2
35°	6409.1	6529.1	6495.6	6331.0	6216.6	6124.5	6096.6	5985.0	5887.3	5641.8
37.5°	6813.7	6863.9	6816.4	6763.4	6710.4	6612.8	6579.3	6610.0	6417.4	6012.9
40°	7075.9	7182.0	7279.6	7131.7	7120.6	7140.1	6933.6	6897.4	6501.2	6289.1
42.5°	7611.7	7656.3	7675.8	7670.2	7734.4	7734.4	7341.0	7262.9	6981.1	6808.1
45°	8320.4	8356.6	8426.4	8476.6	8404.1	8440.3	7879.5	7848.8	7597.7	7564.2
47.5°	8934.2	9020.7	9177.0	9324.8	9419.7	9296.9	8683.1	8465.5	8401.3	8602.2
50°	9469.9	9366.7	9732.2	9882.9	10298.6	10502.3	9570.4	9483.9	9380.6	9765.7
52.5°	9522.9	9662.4	10178.6	10480.0	11336.6	11713.2	10658.5	10622.3	10496.7	10940.4
55°	9902.4	9885.7	10404.6	11057.5	12076.0	12709.3	12076.0	12053.6	11780.2	12201.5
57.5°	9838.2	10008.4	10418.6	11331.0	12742.8	13778.0	13719.4	13565.9	13183.7	13526.9
60°	9620.6	9665.2	10164.7	11322.6	13130.7	14874.5	15494.0	15524.6	14743.4	15016.8
62.5°	8387.3	8490.6	9123.9	10432.5	12854.4	15630.7	17226.7	17117.8	16492.8	16180.3
65°	6671.4	6568.1	7226.6	8641.2	11135.7	15095.0	17985.6	18390.2	17408.0	16836.0
67.5°	4090.4	4065.3	4698.7	5945.9	8331.5	12846.1	17380.1	17695.4	17154.1	16696.5
70°	2106.6	2042.4	2438.6	3317.5	5237.2	9425.3	15125.6	15435.4	15951.5	14975.0
72.5°	982.1	968.2	1180.3	1632.3	2667.4	5541.3	11713.2	11936.5	13024.6	12625.6
75°	577.6	585.9	705.9	853.8	1300.2	2611.6	7773.5	8206.0	9386.2	9098.8
77.5°	432.5	432.5	502.2	594.3	758.9	1010.1	3836.5	4408.5	5488.3	4935.9
80°	318.1	323.7	385.0	446.4	527.3	521.8	1523.4	1785.7	2516.8	2151.2
82.5°	248.3	256.7	298.6	332.0	371.1	315.3	625.0	672.4	1035.2	823.1
85°	173.0	178.6	234.4	226.0	226.0	175.8	259.5	273.4	410.2	390.6
87.5°	41.9	47.4	114.4	125.6	94.9	53.0	80.9	92.1	147.9	170.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477519
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3200.4	0°	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4	3200.4
3256.2	2.5°	3214.3	3225.5	3272.9	3247.8	3261.7	3203.1	3250.6	3211.5	3245.0	3228.3
3281.3	5°	3303.6	3278.5	3306.4	3286.8	3286.8	3309.2	3342.7	3317.5	3367.8	3345.4
3300.8	7.5°	3339.9	3342.7	3359.4	3362.2	3348.2	3418.0	3420.8	3412.4	3459.8	3448.7
3434.7	10°	3429.1	3431.9	3462.6	3479.4	3465.4	3490.5	3462.6	3440.3	3437.5	3426.4
3540.8	12.5°	3571.4	3599.4	3593.8	3607.7	3610.5	3504.5	3440.3	3331.5	3317.5	3331.5
3697.0	15°	3702.6	3691.4	3697.0	3724.9	3607.7	3437.5	3323.1	3231.0	3236.6	3239.4
3900.7	17.5°	3858.8	3867.2	3875.6	3747.2	3532.4	3331.5	3231.0	3231.0	3203.1	3214.3
4043.0	20°	4037.4	4003.9	3931.4	3750.0	3401.2	3208.7	3178.0	3178.0	3144.5	3122.2
4196.5	22.5°	4176.9	4110.0	4001.1	3663.5	3284.1	3161.3	3086.0	3032.9	2993.9	2949.2
4366.7	25°	4266.2	4229.9	4017.9	3574.2	3197.6	3035.7	2924.1	2843.2	2793.0	2734.4
4500.6	27.5°	4402.9	4333.2	4065.3	3471.0	3102.7	2910.2	2737.2	2611.6	2516.8	2455.4
4704.3	30°	4587.1	4486.6	4031.8	3323.1	2957.6	2692.5	2488.9	2327.0	2218.2	2168.0
4896.8	32.5°	4737.8	4606.6	4003.9	3189.2	2795.8	2472.1	2201.5	2036.8	1975.5	1911.3
5220.5	35°	5025.1	4765.7	3984.4	3113.9	2650.7	2251.7	1967.1	1824.8	1746.7	1651.8
5413.0	37.5°	5245.6	5041.9	3937.0	2957.6	2463.7	2036.8	1788.5	1660.2	1543.0	1442.5
5859.4	40°	5591.6	5426.9	3939.8	2737.2	2243.3	1852.7	1649.0	1515.1	1367.2	1280.7
6520.7	42.5°	6241.7	5806.4	3956.5	2561.4	1995.0	1702.0	1523.4	1364.4	1216.5	1144.0
7274.0	45°	7039.7	6328.2	3853.3	2402.4	1741.1	1559.7	1372.8	1213.7	1118.9	1065.9
8298.0	47.5°	7957.6	6838.8	3713.7	2103.8	1529.0	1409.0	1233.3	1141.2	1071.4	1040.7
9617.8	50°	8984.4	7569.8	3674.7	1830.4	1364.4	1280.7	1166.3	1096.5	1049.1	1012.8
11105.0	52.5°	10307.0	8420.8	3596.6	1548.6	1222.1	1177.5	1141.2	1093.8	1051.9	1021.2
12491.7	55°	11570.9	9363.9	3512.9	1317.0	1121.7	1127.2	1146.8	1104.9	1068.6	1021.2
14045.8	57.5°	12993.9	10326.5	3203.1	1146.8	1046.3	1102.1	1141.2	1093.8	1057.5	1021.2
15636.3	60°	13872.9	10867.8	2597.7	998.9	979.4	1054.7	1107.7	1057.5	1018.4	1032.4
16367.3	62.5°	14230.0	10583.2	1958.7	906.8	931.9	990.5	1054.7	1035.2	1007.3	1060.3
16358.9	65°	13621.7	9927.5	1400.7	828.7	867.8	926.3	1007.3	1029.6	1038.0	1141.2
15025.2	67.5°	12120.6	8644.0	1029.6	764.5	800.8	887.3	1040.7	1077.0	1071.4	1199.8
12608.9	70°	9698.7	6760.6	803.6	711.5	775.7	918.0	1088.2	1088.2	1049.1	1199.8
9617.8	72.5°	7056.4	4765.7	692.0	650.1	711.5	842.6	1082.6	1079.8	1029.6	1096.5
6124.5	75°	4271.8	2773.5	611.1	588.7	611.1	722.7	1035.2	1018.4	948.7	943.1
2946.4	77.5°	2128.9	1395.1	499.4	521.8	532.9	605.5	909.6	934.7	839.8	817.5
1163.5	80°	898.4	608.3	415.7	449.2	449.2	510.6	756.1	772.9	697.5	655.7
460.4	82.5°	410.2	348.8	354.4	390.6	365.5	396.2	599.9	619.4	566.4	496.7
195.3	85°	173.0	198.1	270.6	306.9	270.6	256.7	412.9	435.3	368.3	306.9
83.7	87.5°	78.1	108.8	170.2	223.2	136.7	120.0	220.4	228.8	184.2	136.7
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°
3200.4
3197.6
3314.8
3431.9
3426.4
3337.1
3278.5
3217.1
3088.7
2924.1
2745.6
2483.3
2195.9
1908.5
1643.4
1445.3
1289.1
1149.6
1077.0
1035.2
1018.4
1018.4
1018.4
1018.4
1021.2
1046.3
1141.2
1208.2
1174.7
1057.5
931.9
803.6
641.7
485.5
309.7
128.3
0.0

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