

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: P637739

Luminaire Tested: **IFLD-M-SA4B-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15770.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
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: 25 FT



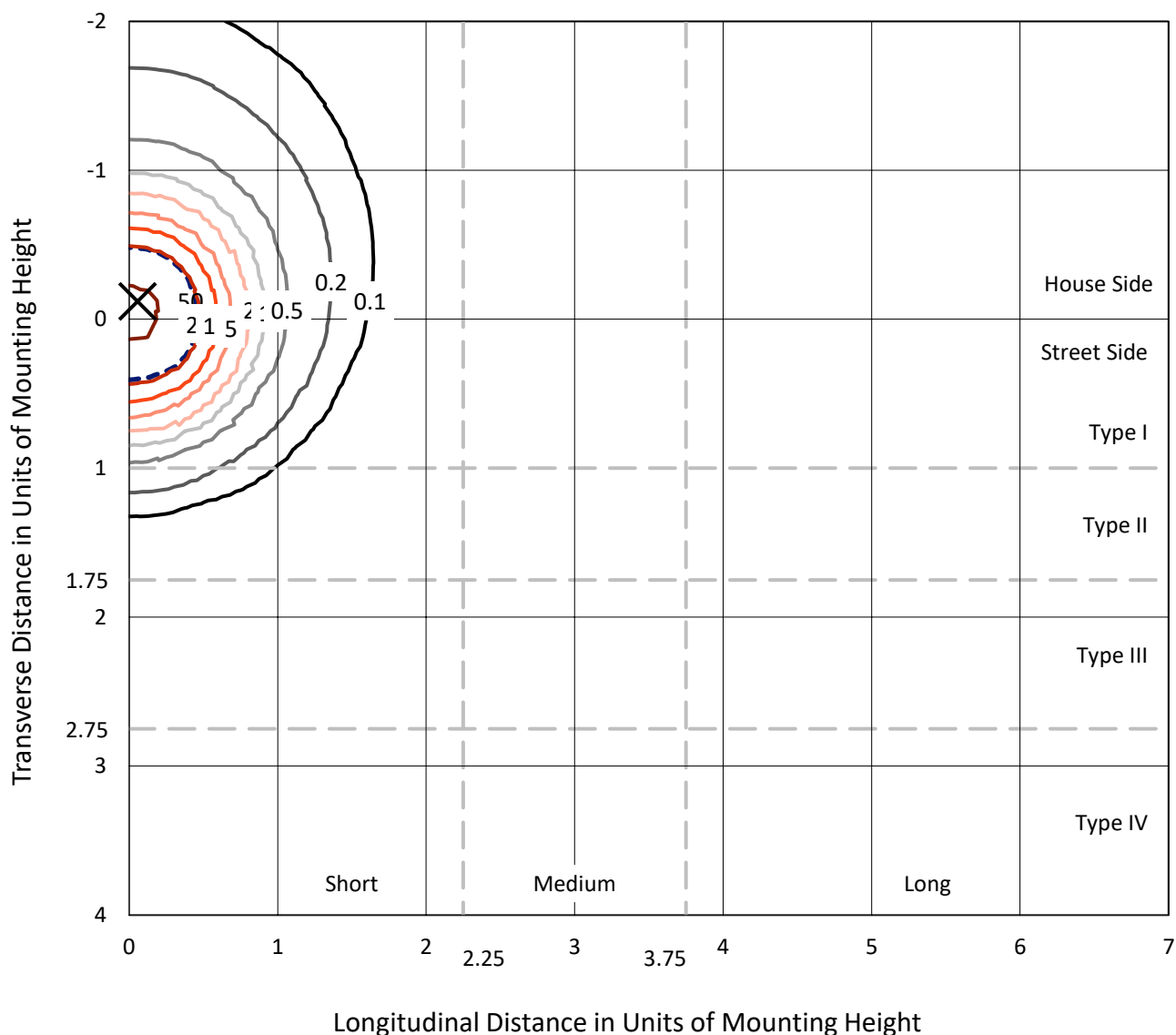
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

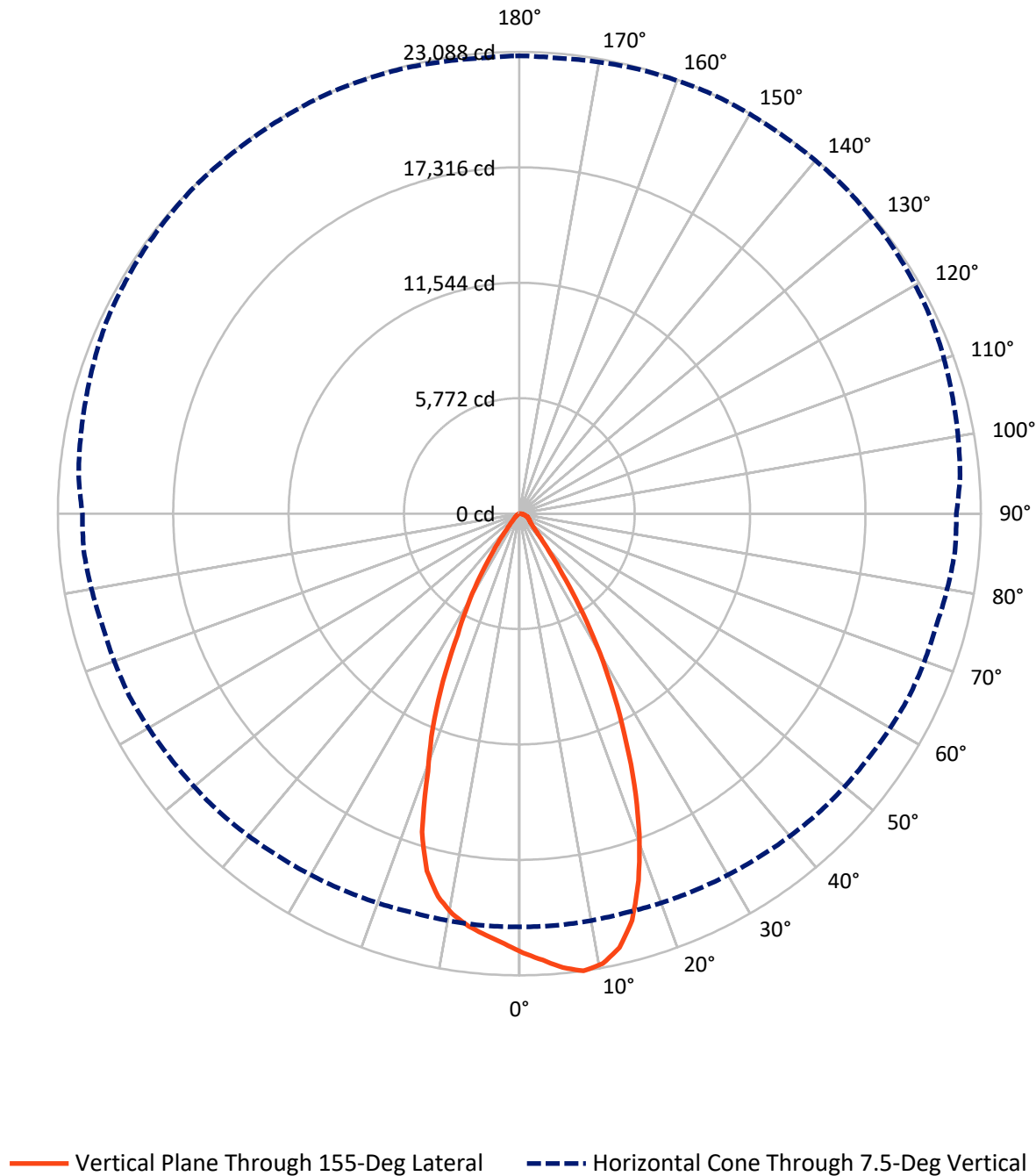


Based on 20 foot mounting height. Maximum calculated value = 55.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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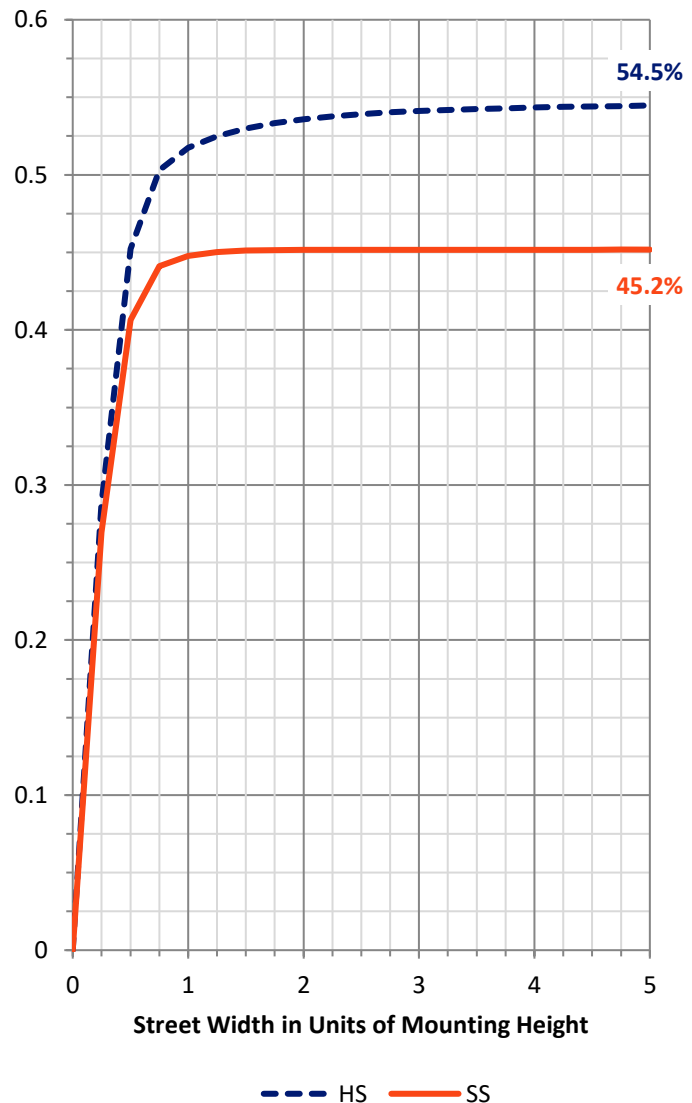
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8706.1	0.0	8706.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7064.8	0.0	7064.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	15770.8	0.0	15770.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.0	13.3
10°-20°	5432.3	34.4
20°-30°	4977.5	31.6
30°-40°	2010.9	12.8
40°-50°	589.9	3.7
50°-60°	329.8	2.1
60°-70°	200.3	1.3
70°-80°	101.8	0.6
80°-90°	33.3	0.2
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°	15770.8	100.0
0°-180°	15770.8	100.0

Coefficient of Utilization



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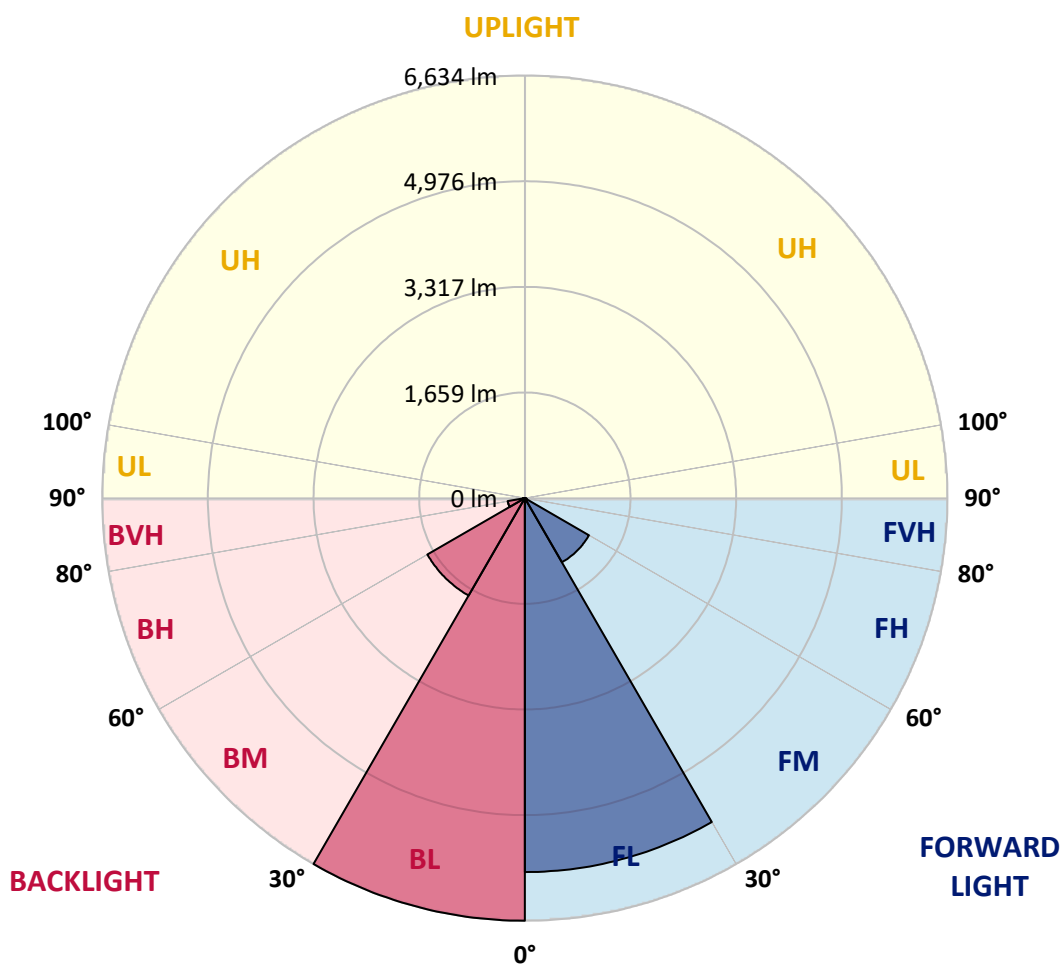
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5870.3	37.2			
FM	(30°-60°)	1163.4	7.4			
FH	(60°-80°)	28.2	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6634.5	42.1	B5		
BM	(30°-60°)	1767.3	11.2	B2/2500		
BH	(60°-80°)	273.9	1.7	B1/500		G1/500
BVH	(80°-90°)	30.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0
2.5°	21493.6	21566.3	21420.8	21517.2	21591.8	21770.0	21784.5	21846.4	21868.2	22030.0
5°	21086.2	21142.6	21024.4	21153.5	21259.0	21417.2	21539.0	21710.0	21804.5	21995.5
7.5°	20662.5	20675.2	20651.6	20788.0	20946.2	21164.4	21315.4	21539.0	21597.2	21870.0
10°	20149.7	20056.9	20102.4	20302.4	20538.8	20873.4	20977.1	21200.8	21304.4	21582.7
12.5°	19331.3	19378.6	19322.2	19576.8	19773.2	20153.3	20262.4	20487.9	20686.1	20931.6
15°	18178.3	18151.1	18265.6	18463.8	18676.6	18978.5	19154.9	19400.4	19551.3	19805.9
17.5°	15586.9	15679.6	16152.5	16648.9	17085.4	17438.2	17649.1	17852.8	17961.9	18238.3
20°	13461.0	13344.6	13408.2	13688.3	14930.4	15470.5	15692.4	15741.5	15786.9	16005.2
22.5°	11084.1	11045.9	11258.7	11573.3	11867.9	13113.6	13415.5	13301.0	13395.5	13601.0
25°	8230.8	8423.6	8612.7	9216.5	9598.4	10209.4	10782.2	10833.2	10867.7	10996.8
27.5°	6699.6	6632.3	6628.7	6797.8	7361.5	7870.7	8358.1	8470.9	8450.9	8574.5
30°	5266.6	5244.7	5168.4	5208.4	5152.0	5604.8	5833.9	6297.7	6272.2	6275.9
32.5°	3799.0	3717.1	3686.2	3746.2	3688.0	3646.2	3846.3	4370.0	4360.9	4397.3
35°	2298.7	2287.7	2313.2	2365.9	2249.6	2245.9	2287.7	2780.6	2840.6	2898.8
37.5°	1269.4	1258.4	1278.4	1473.0	1434.8	1400.3	1411.2	1671.3	1844.0	1887.7
40°	836.5	834.7	849.3	883.8	949.3	936.6	942.0	1058.4	1222.1	1260.3
42.5°	560.1	561.9	571.0	611.0	620.1	685.6	674.7	702.0	854.7	887.5
45°	447.4	445.5	451.0	432.8	443.7	511.0	518.3	520.1	651.0	671.0
47.5°	352.8	352.8	358.3	334.6	329.2	371.0	409.2	414.6	520.1	547.4
50°	247.3	247.3	274.6	263.7	276.4	289.2	331.0	336.4	425.5	454.6
52.5°	181.9	185.5	189.1	190.9	232.8	231.0	267.3	292.8	321.9	372.8
55°	138.2	141.8	132.8	141.8	172.8	192.8	200.0	236.4	256.4	312.8
57.5°	90.9	100.0	92.7	109.1	116.4	149.1	160.0	194.6	207.3	256.4
60°	12.7	14.5	23.6	76.4	81.8	98.2	123.7	154.6	167.3	209.1
62.5°	1.8	1.8	5.5	12.7	54.6	65.5	92.7	107.3	123.7	156.4
65°	0.0	0.0	1.8	3.6	10.9	38.2	47.3	58.2	85.5	112.8
67.5°	0.0	0.0	1.8	3.6	5.5	12.7	20.0	38.2	49.1	78.2
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.5	29.1	45.5
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	12.7	29.1
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	10.9	12.7
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.7	10.9	9.1	9.1
80°	0.0	0.0	1.8	5.5	9.1	12.7	14.5	10.9	7.3	5.5
82.5°	0.0	0.0	1.8	5.5	9.1	12.7	14.5	12.7	7.3	5.5
85°	0.0	0.0	1.8	5.5	7.3	9.1	14.5	12.7	7.3	3.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	7.3	5.5	3.6	1.8
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
21970.0	0°	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0	21970.0
22026.4	2.5°	22190.1	22271.9	22415.6	22455.6	22579.3	22437.4	22359.2	22366.5	22197.4
21971.9	5°	22190.1	22377.4	22628.4	22748.4	22839.3	22832.0	22812.0	22761.1	22637.4
21862.7	7.5°	22131.9	22437.4	22782.9	22943.0	23052.1	23043.0	23088.4	23006.6	22855.7
21668.2	10°	21944.6	22210.1	22635.6	22766.6	22943.0	22946.6	22890.2	22906.6	22637.4
20957.1	12.5°	21355.4	21562.7	21935.5	22084.6	22299.2	22333.7	22271.9	22248.3	21993.7
19791.4	15°	20215.1	20335.1	20709.8	20858.9	21071.7	21042.6	21104.4	21078.9	20855.3
18216.5	17.5°	18547.5	18585.7	18978.5	19104.0	19304.0	19382.2	19289.5	19407.7	19214.9
16043.3	20°	16156.1	16361.6	16803.5	16996.3	17112.7	17252.7	17130.8	17263.6	17038.1
13406.4	22.5°	13730.1	13852.0	14252.1	14530.3	14746.7	14774.0	14728.5	14821.3	14517.6
11082.3	25°	11080.5	11282.4	11598.8	11962.5	12175.3	12306.2	12188.0	12248.0	12198.9
8594.5	27.5°	8740.0	8920.0	9158.3	9429.2	9749.3	9920.3	9825.7	9927.5	9687.5
6408.6	30°	6414.1	6505.0	6774.1	7061.5	7412.5	7619.8	7628.9	7732.5	7590.7
4490.0	32.5°	4522.8	4602.8	4768.3	4959.2	5293.8	5524.8	5488.4	5503.0	5415.7
2926.1	35°	2940.6	3047.9	3166.1	3257.0	3458.9	3713.5	3693.5	3675.3	3615.3
1924.0	37.5°	1965.9	2007.7	2073.2	2155.0	2285.9	2446.0	2498.7	2433.2	2407.8
1298.5	40°	1329.4	1402.1	1445.8	1507.6	1569.4	1704.0	1740.4	1727.6	1702.2
909.3	42.5°	943.8	1000.2	1054.8	1114.8	1147.5	1231.2	1302.1	1282.1	1271.2
691.1	45°	716.5	767.4	831.1	876.5	909.3	958.4	1025.7	1032.9	1016.6
554.7	47.5°	574.7	620.1	671.0	727.4	765.6	796.5	854.7	876.5	865.6
467.4	50°	487.4	521.9	571.0	627.4	669.2	696.5	747.4	771.1	763.8
391.0	52.5°	414.6	456.5	501.9	549.2	600.1	627.4	674.7	709.2	703.8
323.7	55°	343.7	398.3	445.5	492.8	551.0	578.3	620.1	665.6	656.5
274.6	57.5°	300.1	345.5	394.6	440.1	501.9	538.3	576.5	623.8	621.9
225.5	60°	251.0	296.4	351.0	389.2	454.6	505.6	540.1	589.2	592.9
170.9	62.5°	200.0	256.4	298.2	351.0	411.0	471.0	503.7	552.8	571.0
130.9	65°	149.1	211.0	258.2	311.0	367.3	434.6	463.7	512.8	531.0
94.6	67.5°	110.9	158.2	218.2	263.7	327.3	385.5	420.1	465.6	478.3
56.4	70°	83.7	121.8	181.9	221.9	287.3	334.6	369.2	403.7	420.1
38.2	72.5°	49.1	90.9	143.7	190.9	247.3	287.3	312.8	340.1	351.0
18.2	75°	34.6	69.1	112.8	158.2	200.0	232.8	256.4	280.1	291.0
9.1	77.5°	18.2	50.9	89.1	127.3	156.4	183.7	207.3	225.5	232.8
7.3	80°	10.9	36.4	72.7	100.0	120.0	143.7	167.3	180.0	178.2
5.5	82.5°	7.3	29.1	52.7	72.7	87.3	105.5	121.8	130.9	130.9
3.6	85°	5.5	20.0	36.4	56.4	58.2	72.7	76.4	85.5	87.3
3.6	87.5°	3.6	12.7	20.0	32.7	30.9	38.2	40.0	45.5	49.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
21970.0
22061.0
22677.5
22890.2
22559.2
21935.5
20926.2
19167.6
17019.9
14475.7
12168.0
9749.3
7616.1
5464.8
3562.6
2402.3
1705.8
1262.1
1014.8
860.2
762.0
700.1
656.5
620.1
592.9
569.2
529.2
478.3
416.5
347.3
287.3
231.0
176.4
129.1
85.5
47.3
0.0

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