

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: P637741

Luminaire Tested: **IFLD-M-SA4D-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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: 21601.9 lumens
Efficiency: N/A
Efficacy: 86.5 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): 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: 25 FT



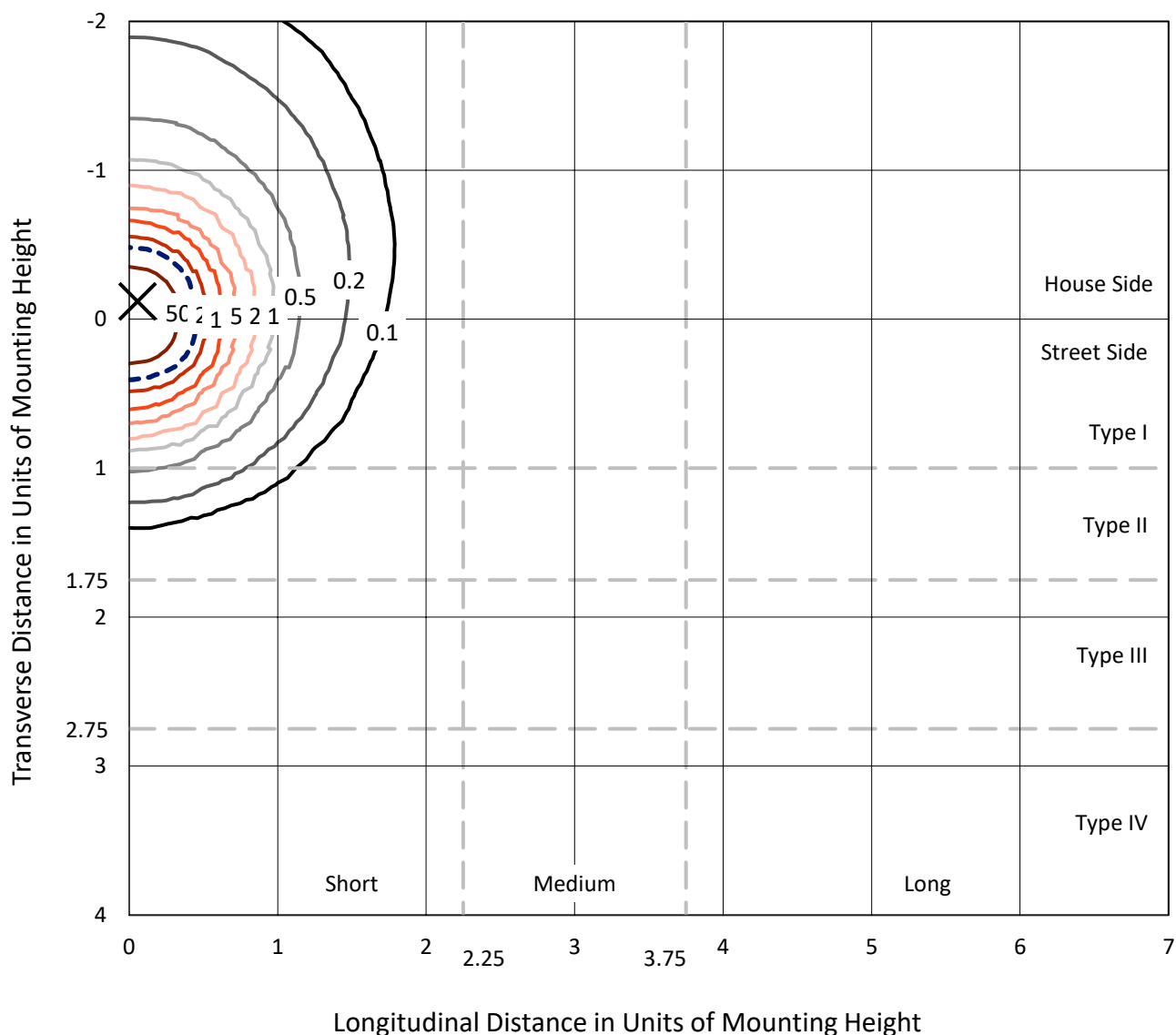
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

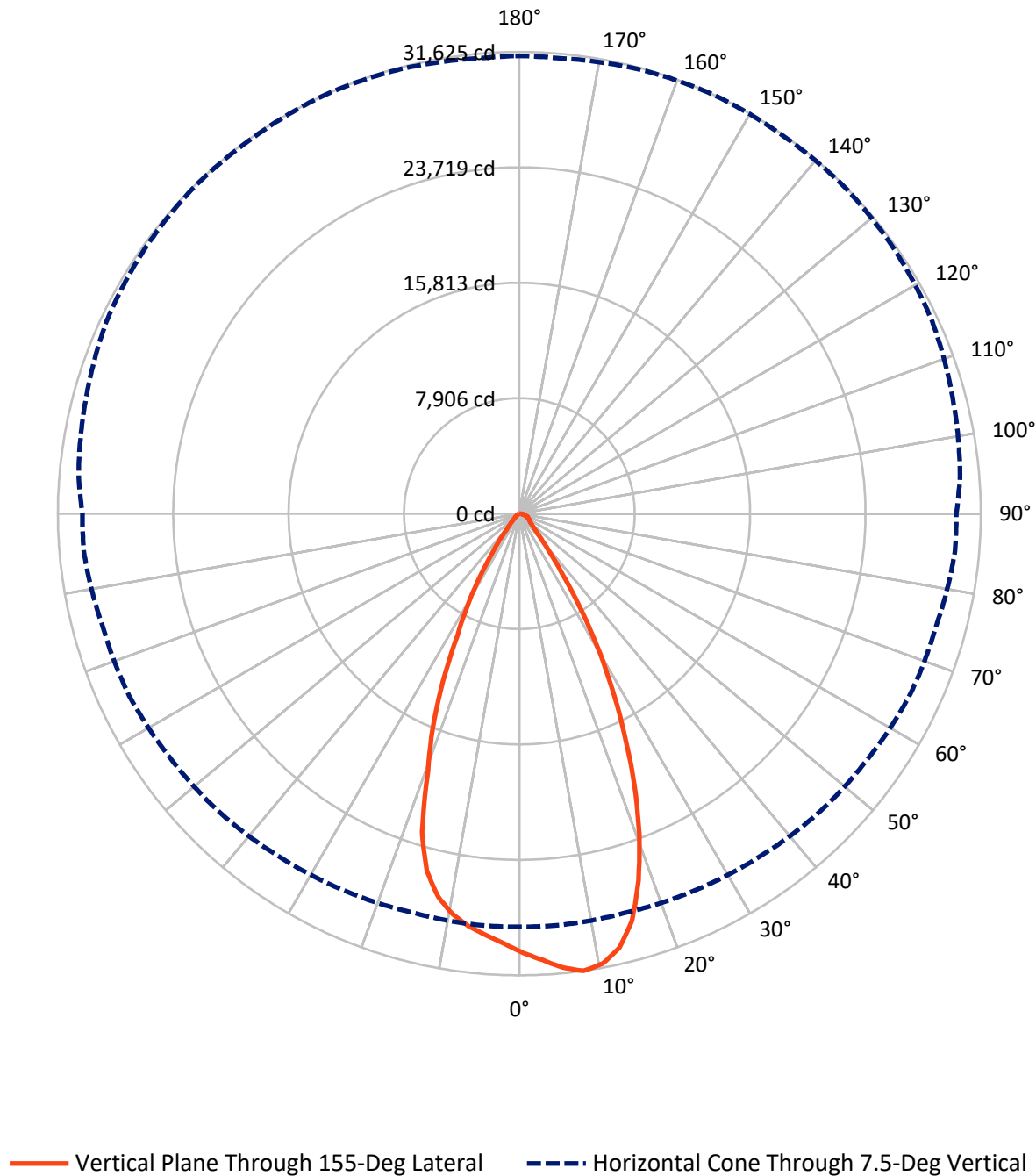


Based on 20 foot mounting height. Maximum calculated value = 76.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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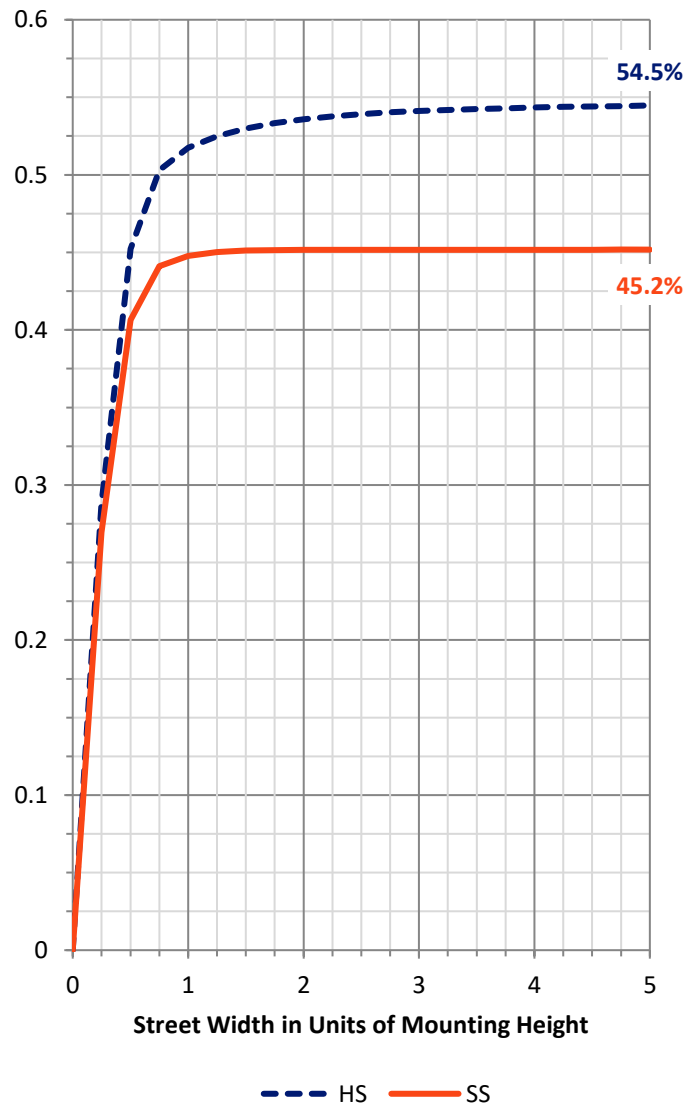
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11925.0	0.0	11925.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9676.8	0.0	9676.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	21601.9	0.0	21601.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2869.6	13.3
10°-20°	7440.8	34.4
20°-30°	6817.9	31.6
30°-40°	2754.4	12.8
40°-50°	808.0	3.7
50°-60°	451.8	2.1
60°-70°	274.4	1.3
70°-80°	139.4	0.6
80°-90°	45.6	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°	21601.9	100.0
0°-180°	21601.9	100.0

Coefficient of Utilization



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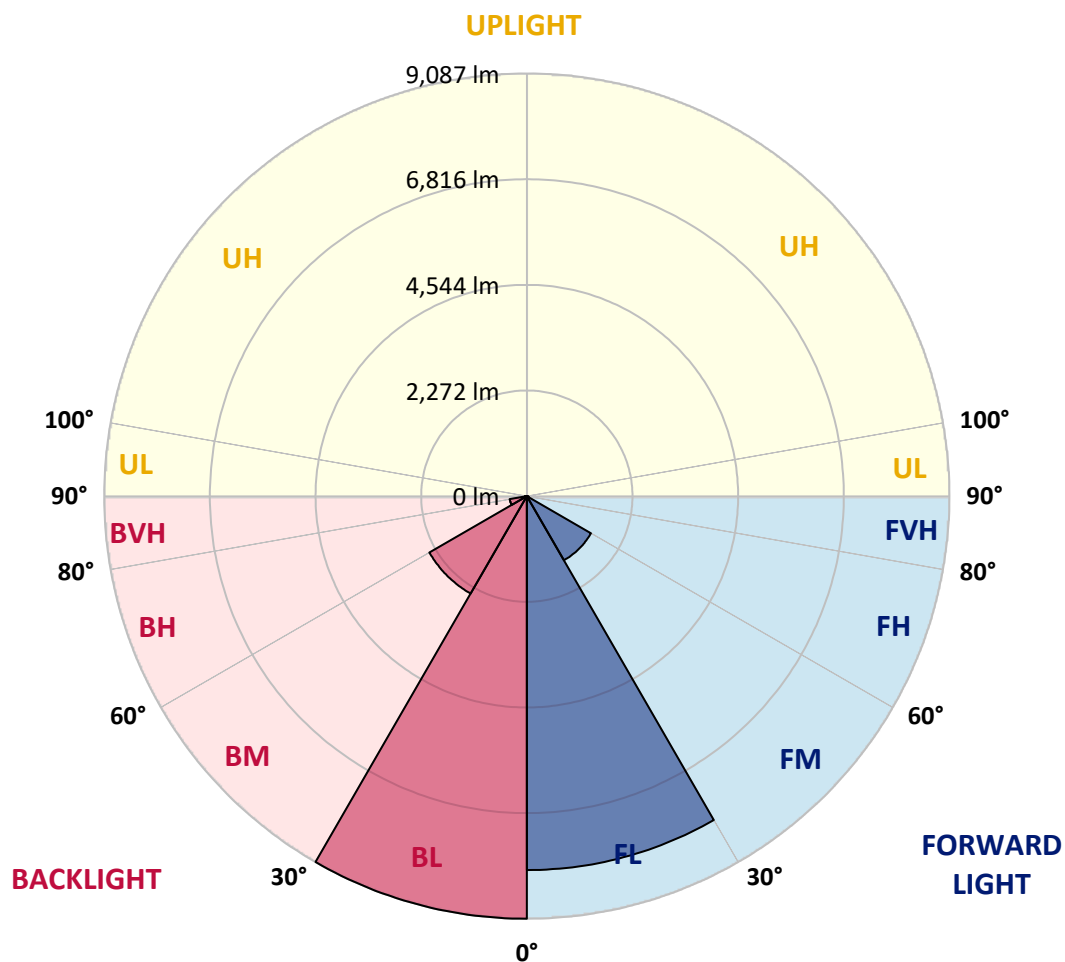
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8040.8	37.2			
FM	(30°-60°)	1593.5	7.4			
FH	(60°-80°)	38.6	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	9087.5	42.1	B5		
BM	(30°-60°)	2420.7	11.2	B2/2500		
BH	(60°-80°)	375.2	1.7	B1/500		G1/500
BVH	(80°-90°)	41.6	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°	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1
2.5°	29440.4	29540.1	29340.8	29472.8	29575.0	29819.1	29839.0	29923.7	29953.6	30175.3
5°	28882.5	28959.7	28797.8	28974.6	29119.1	29335.8	29502.7	29736.9	29866.4	30127.9
7.5°	28302.1	28319.5	28287.1	28474.0	28690.7	28989.6	29196.3	29502.7	29582.4	29956.1
10°	27599.6	27472.6	27534.9	27808.9	28132.7	28591.0	28733.0	29039.4	29181.4	29562.5
12.5°	26478.7	26543.5	26466.3	26815.0	27084.0	27604.6	27754.1	28063.0	28334.5	28670.7
15°	24899.5	24862.1	25019.0	25290.5	25582.0	25995.5	26237.1	26573.4	26780.1	27128.8
17.5°	21349.9	21476.9	22124.5	22804.6	23402.4	23885.6	24174.6	24453.6	24603.0	24981.7
20°	18438.0	18278.5	18365.7	18749.3	20450.6	21190.4	21494.3	21561.6	21623.9	21922.8
22.5°	15182.3	15130.0	15421.4	15852.4	16255.9	17962.2	18375.7	18218.7	18348.3	18629.8
25°	11274.0	11538.0	11797.1	12624.1	13147.2	13984.1	14768.8	14838.5	14885.9	15062.7
27.5°	9176.6	9084.5	9079.5	9311.1	10083.3	10780.8	11448.4	11602.8	11575.4	11744.8
30°	7213.8	7183.9	7079.3	7134.1	7056.8	7677.1	7990.9	8626.1	8591.3	8596.2
32.5°	5203.6	5091.5	5049.1	5131.3	5051.6	4994.3	5268.3	5985.7	5973.3	6023.1
35°	3148.6	3133.6	3168.5	3240.7	3081.3	3076.3	3133.6	3808.7	3890.9	3970.6
37.5°	1738.7	1723.7	1751.1	2017.7	1965.4	1918.0	1933.0	2289.2	2525.8	2585.6
40°	1145.8	1143.3	1163.3	1210.6	1300.3	1282.8	1290.3	1449.7	1673.9	1726.2
42.5°	767.2	769.7	782.2	837.0	849.4	939.1	924.1	961.5	1170.7	1215.6
45°	612.8	610.3	617.8	592.8	607.8	700.0	709.9	712.4	891.8	919.2
47.5°	483.2	483.2	490.7	458.3	450.9	508.2	560.5	567.9	712.4	749.8
50°	338.8	338.8	376.1	361.2	378.6	396.1	453.4	460.8	582.9	622.7
52.5°	249.1	254.1	259.1	261.5	318.8	316.3	366.2	401.0	440.9	510.6
55°	189.3	194.3	181.8	194.3	236.6	264.0	274.0	323.8	351.2	428.4
57.5°	124.5	137.0	127.0	149.5	159.4	204.3	219.2	266.5	284.0	351.2
60°	17.4	19.9	32.4	104.6	112.1	134.5	169.4	211.7	229.2	286.5
62.5°	2.5	2.5	7.5	17.4	74.7	89.7	127.0	147.0	169.4	214.2
65°	0.0	0.0	2.5	5.0	14.9	52.3	64.8	79.7	117.1	154.4
67.5°	0.0	0.0	2.5	5.0	7.5	17.4	27.4	52.3	67.3	107.1
70°	0.0	0.0	2.5	5.0	7.5	10.0	14.9	19.9	39.9	62.3
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	14.9	17.4	39.9
75°	0.0	0.0	2.5	5.0	7.5	12.5	14.9	14.9	14.9	17.4
77.5°	0.0	0.0	2.5	5.0	10.0	14.9	17.4	14.9	12.5	12.5
80°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	14.9	10.0	7.5
82.5°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	17.4	10.0	7.5
85°	0.0	0.0	2.5	7.5	10.0	12.5	19.9	17.4	10.0	5.0
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.0	7.5	5.0	2.5
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°
30093.1	0°	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1	30093.1
30170.3	2.5°	30394.5	30506.6	30703.4	30758.2	30927.5	30733.2	30626.1	30636.1	30404.4
30095.6	5°	30394.5	30651.0	30994.8	31159.2	31283.7	31273.8	31246.4	31176.6	31007.2
29946.1	7.5°	30314.8	30733.2	31206.5	31425.7	31575.2	31562.7	31625.0	31512.9	31306.2
29679.6	10°	30058.2	30421.9	31004.8	31184.1	31425.7	31430.7	31353.5	31375.9	31007.2
28705.6	12.5°	29251.1	29535.1	30045.7	30250.0	30543.9	30591.3	30506.6	30474.2	30125.5
27108.9	15°	27689.3	27853.7	28366.8	28571.1	28862.5	28822.7	28907.4	28872.5	28566.1
24951.8	17.5°	25405.1	25457.4	25995.5	26167.3	26441.3	26548.5	26421.4	26583.3	26319.3
21975.1	20°	22129.5	22411.0	23016.3	23280.3	23439.8	23631.6	23464.7	23646.5	23337.6
18363.2	22.5°	18806.6	18973.5	19521.5	19902.6	20199.0	20236.4	20174.1	20301.2	19885.2
15179.8	25°	15177.3	15453.8	15887.2	16385.4	16676.9	16856.2	16694.3	16776.5	16709.2
11772.2	27.5°	11971.5	12218.1	12544.4	12915.5	13353.9	13588.1	13458.6	13598.1	13269.2
8778.1	30°	8785.6	8910.1	9278.8	9672.3	10153.1	10437.0	10449.5	10591.5	10397.2
6150.1	32.5°	6195.0	6304.6	6531.2	6792.8	7251.1	7567.5	7517.7	7537.6	7418.0
4007.9	35°	4027.9	4174.8	4336.7	4461.3	4737.8	5086.5	5059.1	5034.2	4952.0
2635.4	37.5°	2692.7	2750.0	2839.7	2951.8	3131.1	3350.3	3422.6	3332.9	3298.0
1778.5	40°	1820.9	1920.5	1980.3	2065.0	2149.7	2334.0	2383.8	2366.4	2331.5
1245.5	42.5°	1292.8	1370.0	1444.7	1526.9	1571.8	1686.4	1783.5	1756.1	1741.2
946.6	45°	981.4	1051.2	1138.4	1200.6	1245.5	1312.7	1404.9	1414.9	1392.4
759.7	47.5°	787.1	849.4	919.2	996.4	1048.7	1091.0	1170.7	1200.6	1185.7
640.2	50°	667.6	714.9	782.2	859.4	916.7	954.0	1023.8	1056.2	1046.2
535.6	52.5°	567.9	625.2	687.5	752.3	822.0	859.4	924.1	971.5	964.0
443.4	55°	470.8	545.5	610.3	675.0	754.8	792.1	849.4	911.7	899.2
376.1	57.5°	411.0	473.3	540.5	602.8	687.5	737.3	789.6	854.4	851.9
308.9	60°	343.7	406.0	480.8	533.1	622.7	692.5	739.8	807.1	812.0
234.1	62.5°	274.0	351.2	408.5	480.8	563.0	645.2	690.0	757.2	782.2
179.3	65°	204.3	288.9	353.7	426.0	503.2	595.3	635.2	702.4	727.4
129.5	67.5°	151.9	216.7	298.9	361.2	448.4	528.1	575.4	637.7	655.1
77.2	70°	114.6	166.9	249.1	303.9	393.6	458.3	505.7	553.0	575.4
52.3	72.5°	67.3	124.5	196.8	261.5	338.8	393.6	428.4	465.8	480.8
24.9	75°	47.3	94.7	154.4	216.7	274.0	318.8	351.2	383.6	398.6
12.5	77.5°	24.9	69.7	122.1	174.4	214.2	251.6	284.0	308.9	318.8
10.0	80°	14.9	49.8	99.6	137.0	164.4	196.8	229.2	246.6	244.1
7.5	82.5°	10.0	39.9	72.2	99.6	119.6	144.5	166.9	179.3	179.3
5.0	85°	7.5	27.4	49.8	77.2	79.7	99.6	104.6	117.1	119.6
5.0	87.5°	5.0	17.4	27.4	44.8	42.3	52.3	54.8	62.3	67.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30093.1
30217.6
31062.0
31353.5
30900.1
30045.7
28663.3
26254.5
23312.7
19827.9
16666.9
13353.9
10432.1
7485.3
4879.8
3290.5
2336.5
1728.7
1389.9
1178.2
1043.7
959.0
899.2
849.4
812.0
779.7
724.9
655.1
570.4
475.8
393.6
316.3
241.6
176.9
117.1
64.8
0.0

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