

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: P637769

Luminaire Tested: **IFLD-M-SA4C-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21221.4 lumens
Efficiency: N/A
Efficacy: 97.3 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): 218.1
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



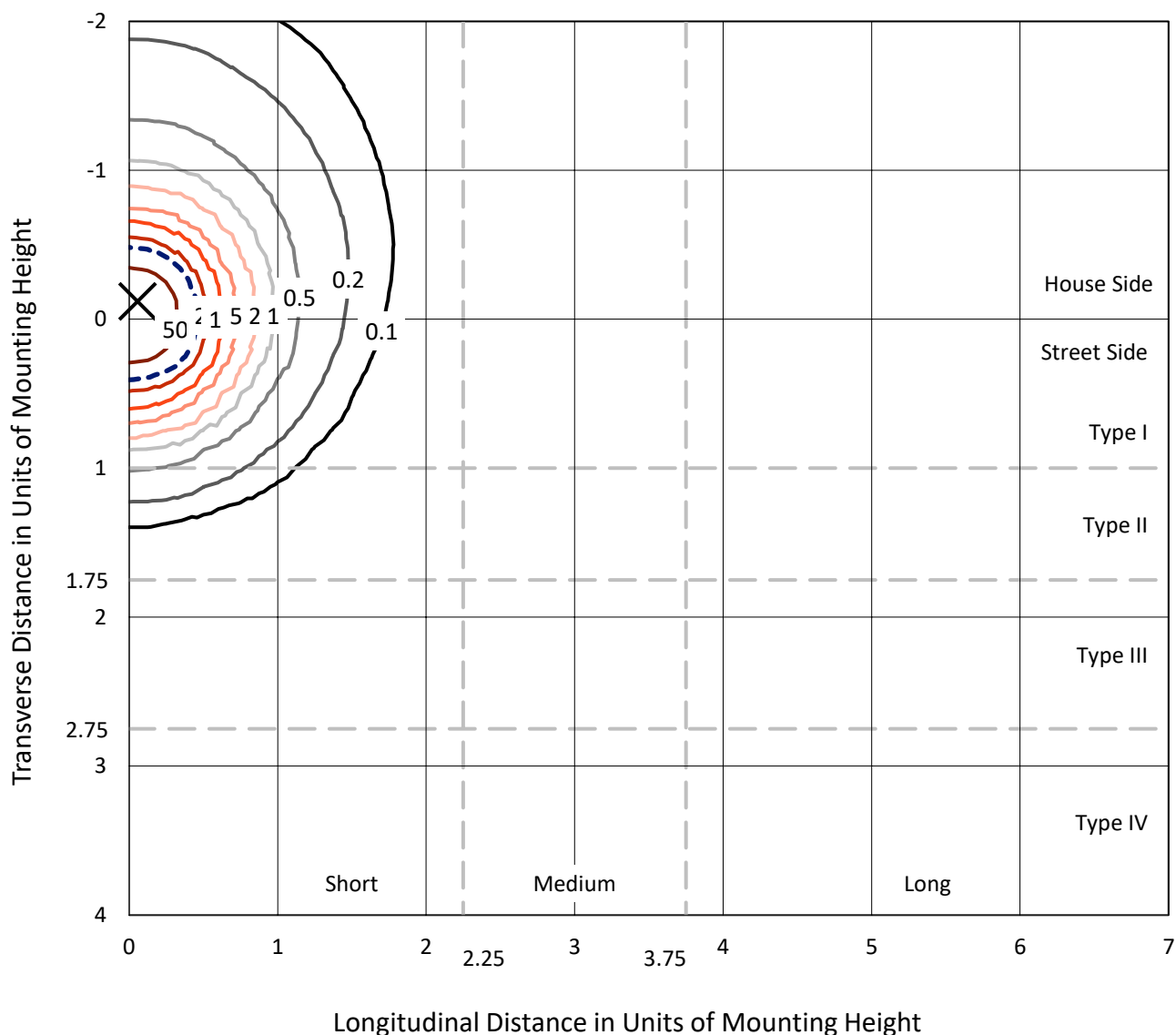
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

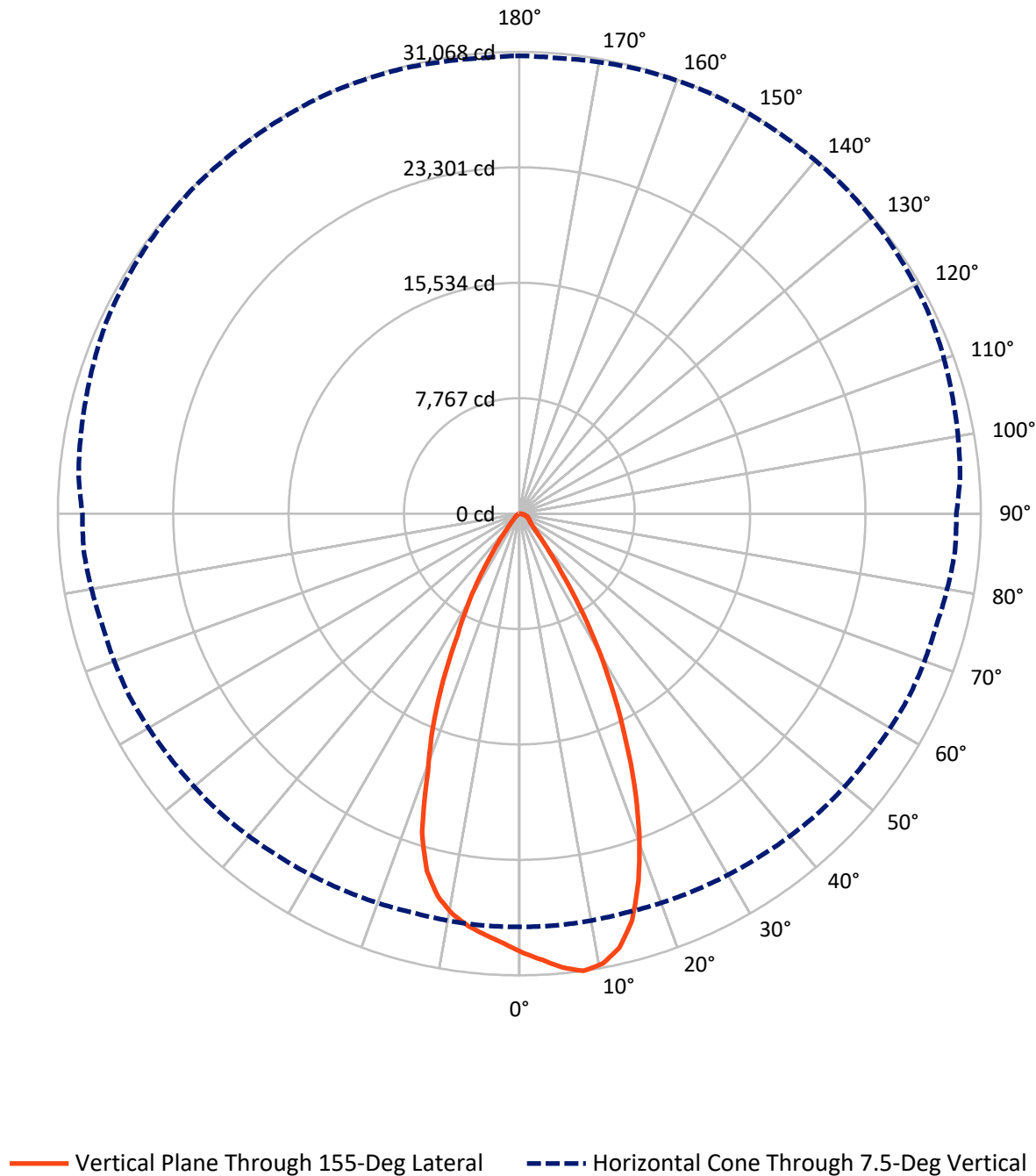


Based on 20 foot mounting height. Maximum calculated value = 75.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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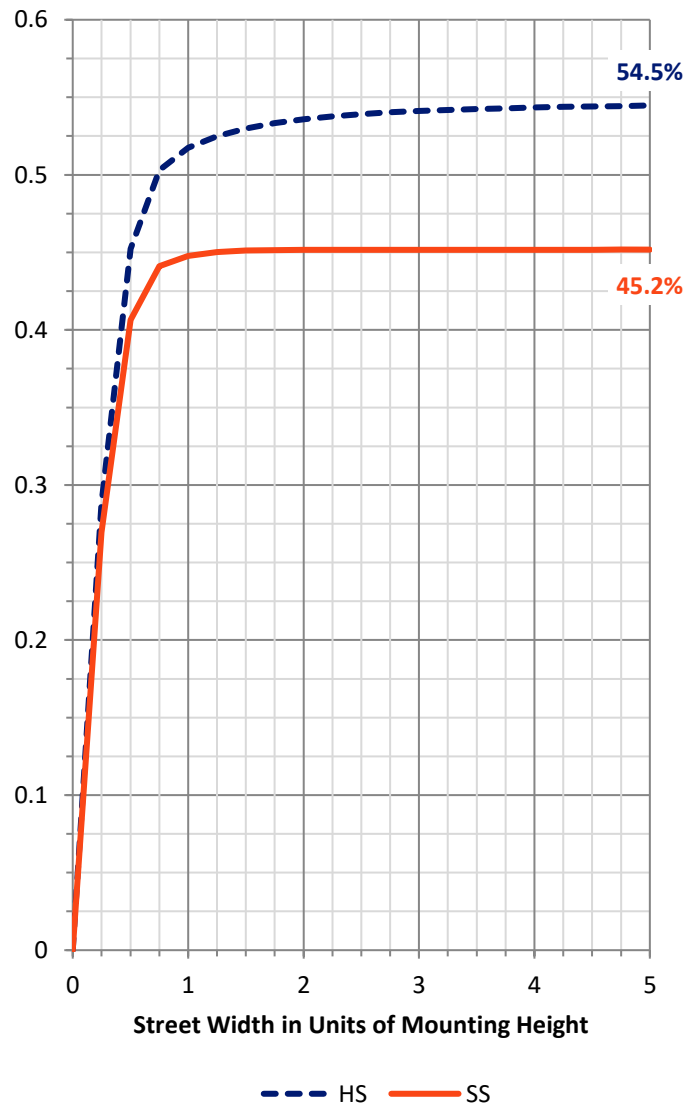
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11715.0	0.0	11715.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9506.4	0.0	9506.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	21221.4	0.0	21221.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2819.0	13.3
10°-20°	7309.8	34.4
20°-30°	6697.8	31.6
30°-40°	2705.9	12.8
40°-50°	793.8	3.7
50°-60°	443.8	2.1
60°-70°	269.6	1.3
70°-80°	137.0	0.6
80°-90°	44.8	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°	21221.4	100.0
0°-180°	21221.4	100.0

Coefficient of Utilization



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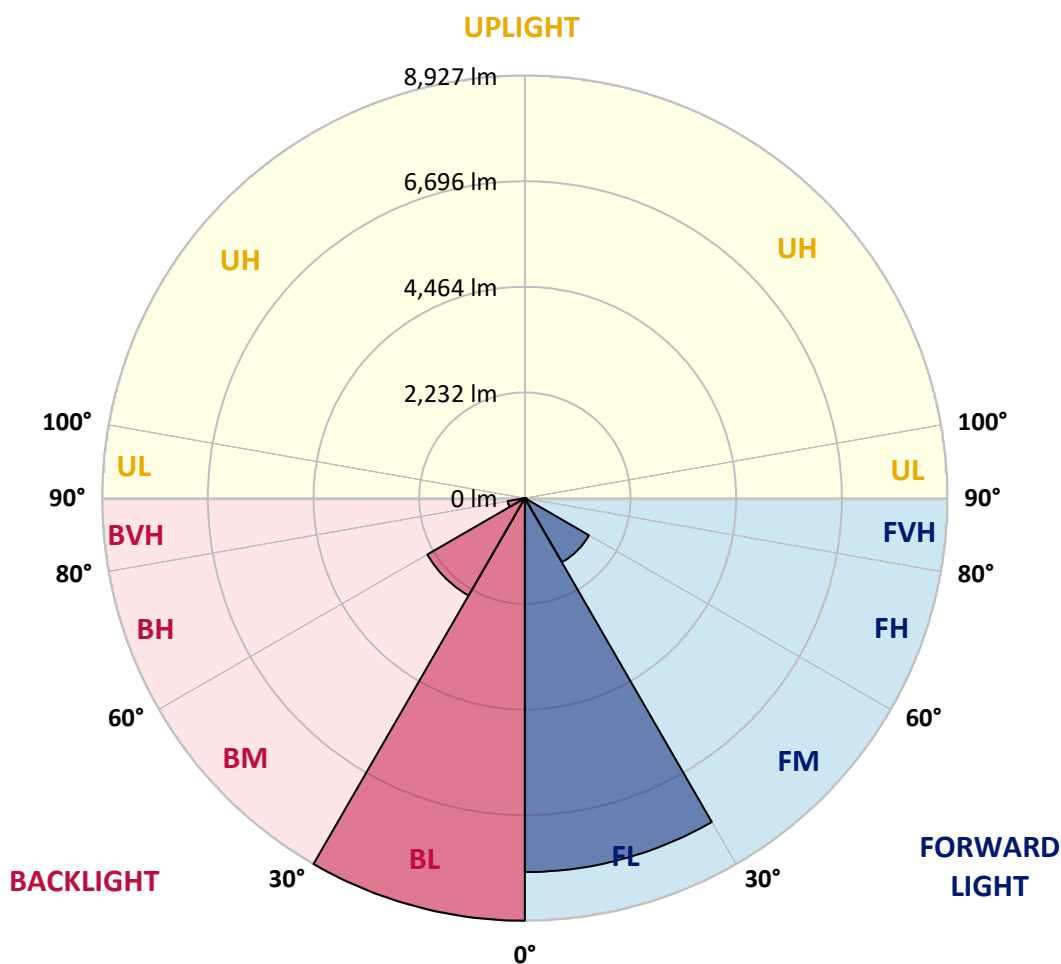
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7899.2	37.2			
FM	(30°-60°)	1565.5	7.4			
FH	(60°-80°)	37.9	0.2			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	8927.4	42.1	B5		
BM	(30°-60°)	2378.0	11.2	B2/2500		
BH	(60°-80°)	368.6	1.7	B1/500		G1/500
BVH	(80°-90°)	40.9	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°	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1
2.5°	28922.0	29019.8	28824.1	28953.8	29054.1	29293.9	29313.5	29396.7	29426.1	29643.8
5°	28373.8	28449.7	28290.6	28464.4	28606.3	28819.2	28983.1	29213.2	29340.4	29597.4
7.5°	27803.6	27820.8	27789.0	27972.5	28185.4	28479.0	28682.1	28983.1	29061.4	29428.5
10°	27113.6	26988.8	27050.0	27319.1	27637.2	28087.5	28227.0	28528.0	28667.5	29041.9
12.5°	26012.4	26076.0	26000.2	26342.7	26607.0	27118.5	27265.3	27568.7	27835.5	28165.8
15°	24460.9	24424.2	24578.4	24845.1	25131.4	25537.7	25775.0	26105.4	26308.5	26651.1
17.5°	20973.9	21098.7	21734.9	22403.0	22990.3	23465.0	23748.8	24022.9	24169.7	24541.7
20°	18113.2	17956.6	18042.3	18419.1	20090.5	20817.3	21115.8	21181.9	21243.0	21536.7
22.5°	14914.9	14863.5	15149.8	15573.2	15969.6	17645.8	18052.1	17897.9	18025.1	18301.7
25°	11075.5	11334.8	11589.3	12401.8	12915.7	13737.9	14508.7	14577.2	14623.7	14797.5
27.5°	9015.0	8924.5	8919.6	9147.2	9905.8	10590.9	11246.7	11398.5	11371.6	11538.0
30°	7086.7	7057.4	6954.6	7008.4	6932.6	7541.9	7850.2	8474.2	8440.0	8444.9
32.5°	5111.9	5001.8	4960.2	5041.0	4962.7	4906.4	5175.6	5880.3	5868.1	5917.0
35°	3093.1	3078.4	3112.7	3183.6	3027.0	3022.1	3078.4	3741.6	3822.3	3900.6
37.5°	1708.1	1693.4	1720.3	1982.1	1930.7	1884.2	1898.9	2248.9	2481.3	2540.1
40°	1125.7	1123.2	1142.8	1189.3	1277.4	1260.2	1267.6	1424.2	1644.4	1695.8
42.5°	753.7	756.1	768.4	822.2	834.5	922.5	907.9	944.6	1150.1	1194.2
45°	602.0	599.5	606.9	582.4	597.1	687.6	697.4	699.9	876.1	903.0
47.5°	474.7	474.7	482.1	450.3	442.9	499.2	550.6	557.9	699.9	736.6
50°	332.8	332.8	369.5	354.8	372.0	389.1	445.4	452.7	572.6	611.8
52.5°	244.7	249.6	254.5	256.9	313.2	310.8	359.7	394.0	433.1	501.7
55°	186.0	190.9	178.6	190.9	232.5	259.4	269.2	318.1	345.0	420.9
57.5°	122.4	134.6	124.8	146.8	156.6	200.7	215.3	261.8	279.0	345.0
60°	17.1	19.6	31.8	102.8	110.1	132.1	166.4	208.0	225.1	281.4
62.5°	2.4	2.4	7.3	17.1	73.4	88.1	124.8	144.4	166.4	210.4
65°	0.0	0.0	2.4	4.9	14.7	51.4	63.6	78.3	115.0	151.7
67.5°	0.0	0.0	2.4	4.9	7.3	17.1	26.9	51.4	66.1	105.2
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.6	39.2	61.2
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	17.1	39.2
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	12.2	12.2
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	14.7	9.8	7.3
82.5°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	17.1	9.8	7.3
85°	0.0	0.0	2.4	7.3	9.8	12.2	19.6	17.1	9.8	4.9
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	9.8	7.3	4.9	2.4
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°
29563.1	0°	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1	29563.1
29639.0	2.5°	29859.2	29969.3	30162.6	30216.5	30382.9	30192.0	30086.8	30096.6	29869.0
29565.5	5°	29859.2	30111.2	30448.9	30610.4	30732.8	30723.0	30696.1	30627.6	30461.2
29418.7	7.5°	29780.9	30192.0	30656.9	30872.3	31019.1	31006.9	31068.0	30957.9	30754.8
29156.9	10°	29528.8	29886.1	30458.7	30634.9	30872.3	30877.2	30801.3	30823.3	30461.2
28200.1	12.5°	28736.0	29015.0	29516.6	29717.3	30006.0	30052.5	29969.3	29937.5	29594.9
26631.5	15°	27201.7	27363.2	27867.3	28067.9	28354.2	28315.1	28398.3	28364.0	28063.0
24512.3	17.5°	24957.7	25009.1	25537.7	25706.5	25975.7	26080.9	25956.1	26115.2	25855.8
21588.1	20°	21739.8	22016.3	22611.0	22870.3	23027.0	23215.4	23051.4	23230.1	22926.6
18039.8	22.5°	18475.4	18639.4	19177.7	19552.1	19843.3	19880.0	19818.8	19943.6	19535.0
14912.5	25°	14910.0	15181.6	15607.4	16096.8	16383.2	16559.3	16400.3	16481.0	16415.0
11564.9	27.5°	11760.6	12002.9	12323.5	12688.1	13118.8	13348.8	13221.5	13358.6	13035.6
8623.5	30°	8630.8	8753.2	9115.3	9502.0	9974.3	10253.2	10265.5	10405.0	10214.1
6041.8	32.5°	6085.9	6193.5	6416.2	6673.2	7123.4	7434.2	7385.3	7404.8	7287.4
3937.3	35°	3956.9	4101.3	4260.4	4382.7	4654.3	4996.9	4970.0	4945.5	4864.8
2589.0	37.5°	2645.3	2701.6	2789.7	2899.8	3076.0	3291.3	3362.3	3274.2	3239.9
1747.2	40°	1788.8	1886.7	1945.4	2028.6	2111.8	2292.9	2341.8	2324.7	2290.5
1223.5	42.5°	1270.0	1345.9	1419.3	1500.1	1544.1	1656.7	1752.1	1725.2	1710.5
929.9	45°	964.1	1032.7	1118.3	1179.5	1223.5	1289.6	1380.1	1389.9	1367.9
746.4	47.5°	773.3	834.5	903.0	978.8	1030.2	1071.8	1150.1	1179.5	1164.8
628.9	50°	655.8	702.3	768.4	844.2	900.5	937.2	1005.7	1037.6	1027.8
526.1	52.5°	557.9	614.2	675.4	739.0	807.5	844.2	907.9	954.4	947.0
435.6	55°	462.5	535.9	599.5	663.2	741.5	778.2	834.5	895.6	883.4
369.5	57.5°	403.8	464.9	531.0	592.2	675.4	724.3	775.7	839.3	836.9
303.4	60°	337.7	398.9	472.3	523.7	611.8	680.3	726.8	792.9	797.7
230.0	62.5°	269.2	345.0	401.3	472.3	553.0	633.8	677.8	743.9	768.4
176.2	65°	200.7	283.9	347.5	418.4	494.3	584.9	624.0	690.1	714.5
127.2	67.5°	149.3	212.9	293.6	354.8	440.5	518.8	565.3	626.5	643.6
75.9	70°	112.6	164.0	244.7	298.5	386.6	450.3	496.8	543.3	565.3
51.4	72.5°	66.1	122.4	193.3	256.9	332.8	386.6	420.9	457.6	472.3
24.5	75°	46.5	93.0	151.7	212.9	269.2	313.2	345.0	376.8	391.5
12.2	77.5°	24.5	68.5	119.9	171.3	210.4	247.2	279.0	303.4	313.2
9.8	80°	14.7	48.9	97.9	134.6	161.5	193.3	225.1	242.3	239.8
7.3	82.5°	9.8	39.2	71.0	97.9	117.5	141.9	164.0	176.2	176.2
4.9	85°	7.3	26.9	48.9	75.9	78.3	97.9	102.8	115.0	117.5
4.9	87.5°	4.9	17.1	26.9	44.0	41.6	51.4	53.8	61.2	66.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
29563.1
29685.4
30515.0
30801.3
30355.9
29516.6
28158.5
25792.2
22902.2
19478.7
16373.4
13118.8
10248.3
7353.5
4793.8
3232.6
2295.4
1698.3
1365.5
1157.5
1025.3
942.1
883.4
834.5
797.7
765.9
712.1
643.6
560.4
467.4
386.6
310.8
237.4
173.7
115.0
63.6
0.0

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