

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: P637604

Luminaire Tested: **IFLD-L-SA8B-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34812.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 320
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

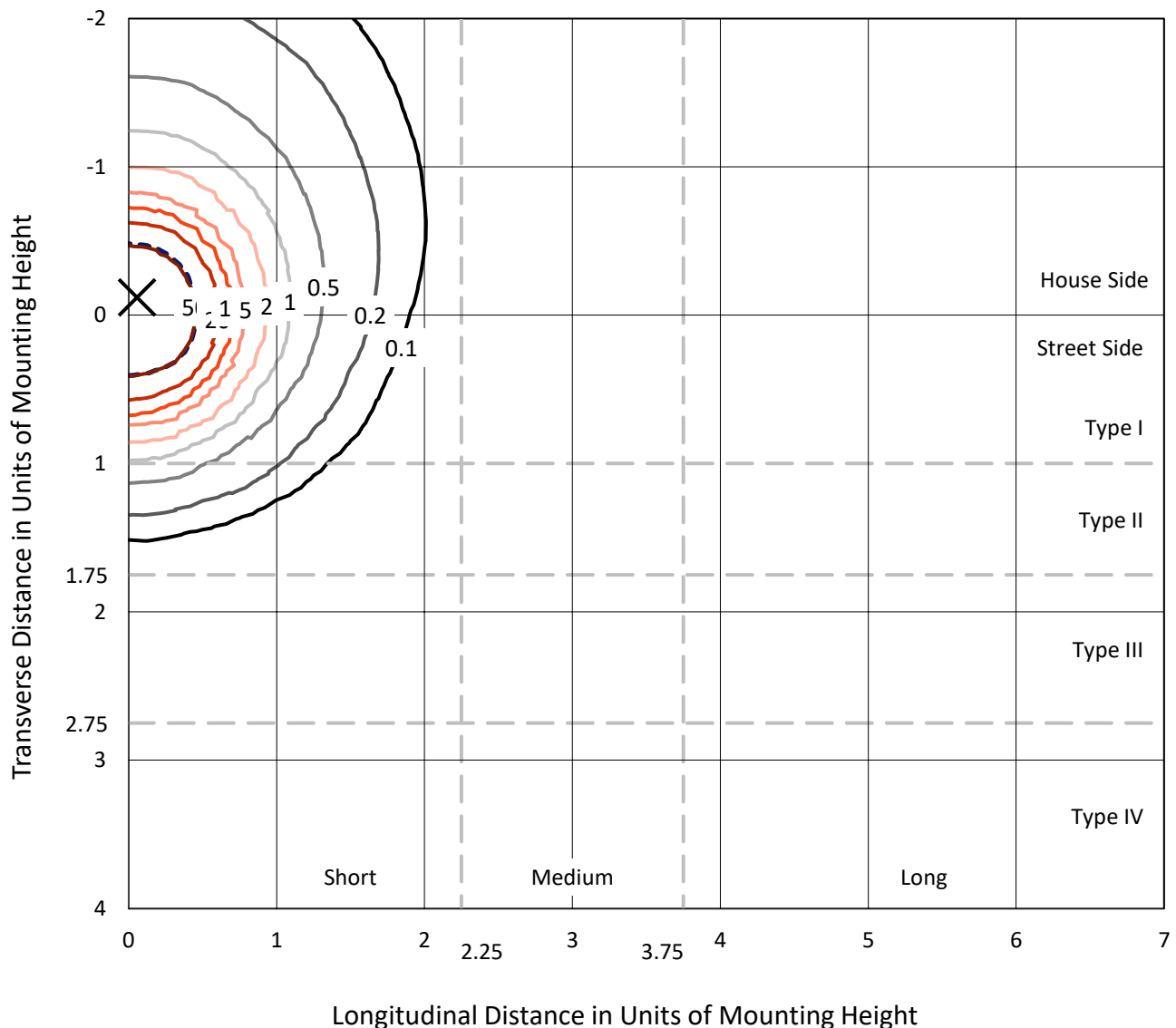


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



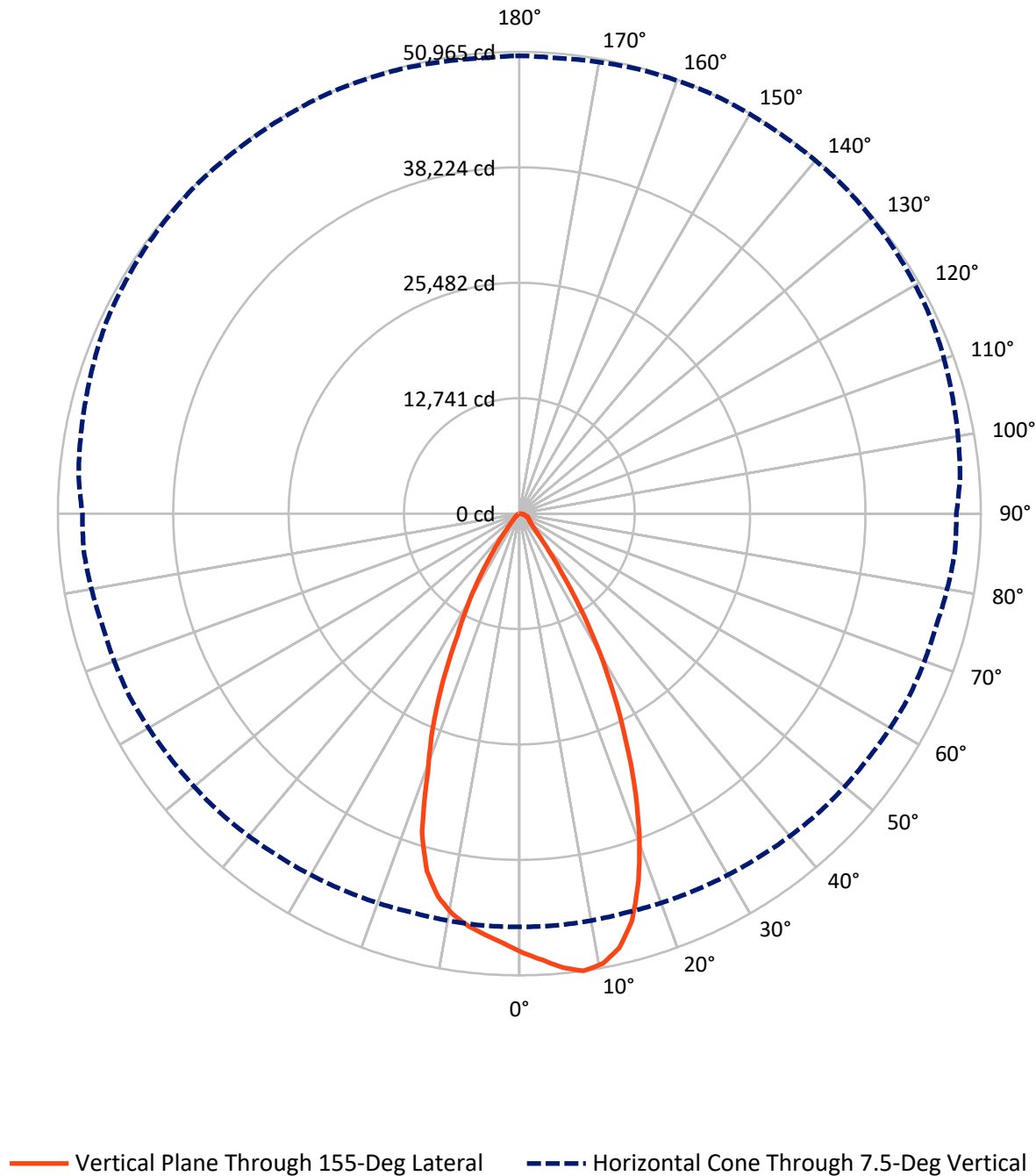
Based on 20 foot mounting height. Maximum calculated value = 123.2 fc

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	19217.6	0.0	19217.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15594.6	0.0	15594.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	34812.2	0.0	34812.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4624.4	13.3
10°-20°	11991.1	34.4
20°-30°	10987.2	31.6
30°-40°	4438.8	12.8
40°-50°	1302.2	3.7
50°-60°	728.1	2.1
60°-70°	442.2	1.3
70°-80°	224.7	0.6
80°-90°	73.5	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°	34812.2	100.0
0°-180°	34812.2	100.0

Coefficient of Utilization



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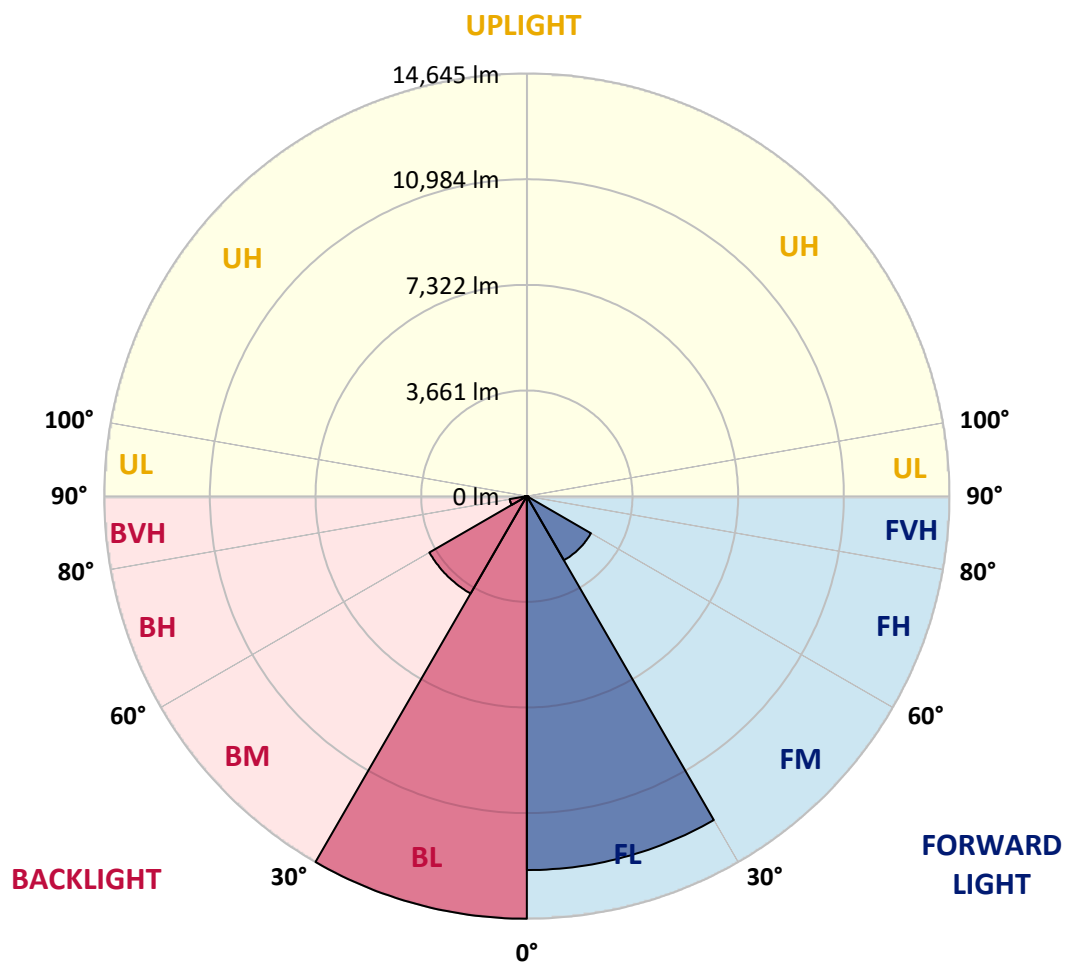
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12958.0	37.2			
FM	(30°-60°)	2568.0	7.4			
FH	(60°-80°)	62.2	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	14644.8	42.1	B5		
BM	(30°-60°)	3901.0	11.2	B3/5000		
BH	(60°-80°)	604.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	67.1	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1
2.5°	47444.4	47604.9	47283.8	47496.6	47661.1	48054.5	48086.6	48223.1	48271.3	48628.6
5°	46545.2	46669.6	46408.7	46693.7	46926.5	47275.8	47544.7	47922.1	48130.8	48552.3
7.5°	45609.9	45638.0	45585.8	45886.8	46236.1	46717.8	47051.0	47544.7	47673.2	48275.3
10°	44477.8	44273.1	44373.5	44815.0	45336.9	46075.5	46304.3	46798.1	47026.9	47641.1
12.5°	42671.4	42775.8	42651.4	43213.4	43646.9	44485.9	44726.7	45224.5	45662.0	46204.0
15°	40126.4	40066.2	40319.1	40756.6	41226.3	41892.7	42282.0	42824.0	43157.2	43719.1
17.5°	34406.1	34610.8	35654.5	36750.4	37713.8	38492.6	38958.3	39407.8	39648.7	40258.9
20°	29713.4	29456.5	29597.0	30215.2	32957.0	34149.2	34638.9	34747.3	34847.7	35329.4
22.5°	24466.8	24382.5	24852.2	25546.7	26197.0	28946.7	29613.1	29360.2	29568.9	30022.5
25°	18168.5	18594.0	19011.5	20344.2	21187.2	22536.0	23800.5	23912.9	23989.1	24274.1
27.5°	14788.5	14640.0	14631.9	15005.2	16249.7	17373.7	18449.5	18698.4	18654.2	18927.2
30°	11625.3	11577.1	11408.5	11496.8	11372.4	12371.9	12877.7	13901.3	13845.1	13853.2
32.5°	8385.8	8205.1	8136.9	8269.3	8140.9	8048.6	8490.1	9646.2	9626.2	9706.4
35°	5074.0	5049.9	5106.1	5222.5	4965.6	4957.6	5049.9	6137.8	6270.3	6398.7
37.5°	2801.9	2777.9	2822.0	3251.5	3167.2	3091.0	3115.1	3689.1	4070.4	4166.8
40°	1846.6	1842.5	1874.7	1950.9	2095.4	2067.3	2079.4	2336.3	2697.6	2781.9
42.5°	1236.4	1240.4	1260.5	1348.8	1368.9	1513.4	1489.3	1549.5	1886.7	1959.0
45°	987.5	983.5	995.5	955.4	979.5	1128.0	1144.1	1148.1	1437.1	1481.3
47.5°	778.8	778.8	790.8	738.6	726.6	818.9	903.2	915.2	1148.1	1208.3
50°	545.9	545.9	606.2	582.1	610.2	638.3	730.6	742.6	939.3	1003.6
52.5°	401.4	409.5	417.5	421.5	513.8	509.8	590.1	646.3	710.5	822.9
55°	305.1	313.1	293.0	313.1	381.4	425.5	441.6	521.9	566.0	690.5
57.5°	200.7	220.8	204.7	240.9	256.9	329.2	353.3	429.5	457.6	566.0
60°	28.1	32.1	52.2	168.6	180.6	216.8	273.0	341.2	369.3	461.6
62.5°	4.0	4.0	12.0	28.1	120.4	144.5	204.7	236.8	273.0	345.2
65°	0.0	0.0	4.0	8.0	24.1	84.3	104.4	128.5	188.7	248.9
67.5°	0.0	0.0	4.0	8.0	12.0	28.1	44.2	84.3	108.4	172.6
70°	0.0	0.0	4.0	8.0	12.0	16.1	24.1	32.1	64.2	100.4
72.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	24.1	28.1	64.2
75°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	24.1	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	16.1	24.1	28.1	24.1	20.1	20.1
80°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	24.1	16.1	12.0
82.5°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	28.1	16.1	12.0
85°	0.0	0.0	4.0	12.0	16.1	20.1	32.1	28.1	16.1	8.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	16.1	12.0	8.0	4.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
48496.1	0°	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1	48496.1
48620.5	2.5°	48981.8	49162.5	49479.6	49567.9	49840.9	49527.8	49355.1	49371.2	48997.9
48500.1	5°	48981.8	49395.3	49949.3	50214.2	50414.9	50398.9	50354.7	50242.3	49969.3
48259.3	7.5°	48853.4	49527.8	50290.5	50643.7	50884.6	50864.5	50964.9	50784.2	50451.0
47829.7	10°	48439.9	49026.0	49965.3	50254.3	50643.7	50651.7	50527.3	50563.4	49969.3
46260.2	12.5°	47139.3	47596.9	48419.8	48749.0	49222.7	49298.9	49162.5	49110.3	48548.3
43687.0	15°	44622.4	44887.3	45714.2	46043.4	46513.1	46448.8	46585.3	46529.1	46035.4
40210.7	17.5°	40941.3	41025.6	41892.7	42169.6	42611.2	42783.8	42579.1	42840.0	42414.5
35413.7	20°	35662.6	36116.2	37091.6	37517.1	37774.0	38083.1	37814.2	38107.2	37609.5
29593.0	22.5°	30307.6	30576.5	31459.6	32073.8	32551.5	32611.7	32511.4	32716.1	32045.7
24462.8	25°	24458.8	24904.4	25602.9	26405.7	26875.4	27164.4	26903.5	27035.9	26927.6
18971.3	27.5°	19292.5	19689.9	20215.7	20813.9	21520.4	21897.7	21689.0	21913.8	21383.9
14146.2	30°	14158.2	14359.0	14953.1	15587.3	16362.1	16819.7	16839.8	17068.6	16755.5
9911.2	32.5°	9983.4	10160.1	10525.4	10946.8	11685.5	12195.3	12115.0	12147.1	11954.4
6458.9	35°	6491.0	6727.9	6988.8	7189.5	7635.1	8197.1	8152.9	8112.8	7980.3
4247.1	37.5°	4339.4	4431.7	4576.2	4756.9	5045.9	5399.2	5515.6	5371.1	5314.9
2866.2	40°	2934.4	3095.0	3191.3	3327.8	3464.3	3761.3	3841.6	3813.5	3757.3
2007.1	42.5°	2083.4	2207.8	2328.3	2460.7	2533.0	2717.6	2874.2	2830.0	2806.0
1525.4	45°	1581.6	1694.0	1834.5	1934.9	2007.1	2115.5	2264.0	2280.1	2244.0
1224.3	47.5°	1268.5	1368.9	1481.3	1605.7	1690.0	1758.2	1886.7	1934.9	1910.8
1031.7	50°	1075.8	1152.1	1260.5	1384.9	1477.2	1537.5	1649.9	1702.0	1686.0
863.1	52.5°	915.2	1007.6	1107.9	1212.3	1324.7	1384.9	1489.3	1565.6	1553.5
714.5	55°	758.7	879.1	983.5	1087.9	1216.3	1276.5	1368.9	1469.2	1449.1
606.2	57.5°	662.4	762.7	871.1	971.4	1107.9	1188.2	1272.5	1376.9	1372.9
497.8	60°	554.0	654.3	774.7	859.0	1003.6	1116.0	1192.2	1300.6	1308.6
377.3	62.5°	441.6	566.0	658.3	774.7	907.2	1039.7	1111.9	1220.3	1260.5
289.0	65°	329.2	465.7	570.0	686.4	810.9	959.4	1023.6	1132.0	1172.2
208.7	67.5°	244.9	349.2	481.7	582.1	722.6	851.0	927.3	1027.6	1055.7
124.4	70°	184.7	269.0	401.4	489.7	634.3	738.6	814.9	891.2	927.3
84.3	72.5°	108.4	200.7	317.1	421.5	545.9	634.3	690.5	750.7	774.7
40.1	75°	76.3	152.5	248.9	349.2	441.6	513.8	566.0	618.2	642.3
20.1	77.5°	40.1	112.4	196.7	281.0	345.2	405.4	457.6	497.8	513.8
16.1	80°	24.1	80.3	160.6	220.8	264.9	317.1	369.3	397.4	393.4
12.0	82.5°	16.1	64.2	116.4	160.6	192.7	232.8	269.0	289.0	289.0
8.0	85°	12.0	44.2	80.3	124.4	128.5	160.6	168.6	188.7	192.7
8.0	87.5°	8.0	28.1	44.2	72.3	68.2	84.3	88.3	100.4	108.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48496.1
48696.8
50057.6
50527.3
49796.7
48419.8
46191.9
42310.1
37569.3
31953.4
26859.3
21520.4
16811.7
12062.8
7863.9
5302.8
3765.4
2785.9
2239.9
1898.7
1682.0
1545.5
1449.1
1368.9
1308.6
1256.5
1168.1
1055.7
919.3
766.7
634.3
509.8
389.4
285.0
188.7
104.4
0.0

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