

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: P636431

Luminaire Tested: **IFLD-S-SA6D-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23952.8 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 368.2
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



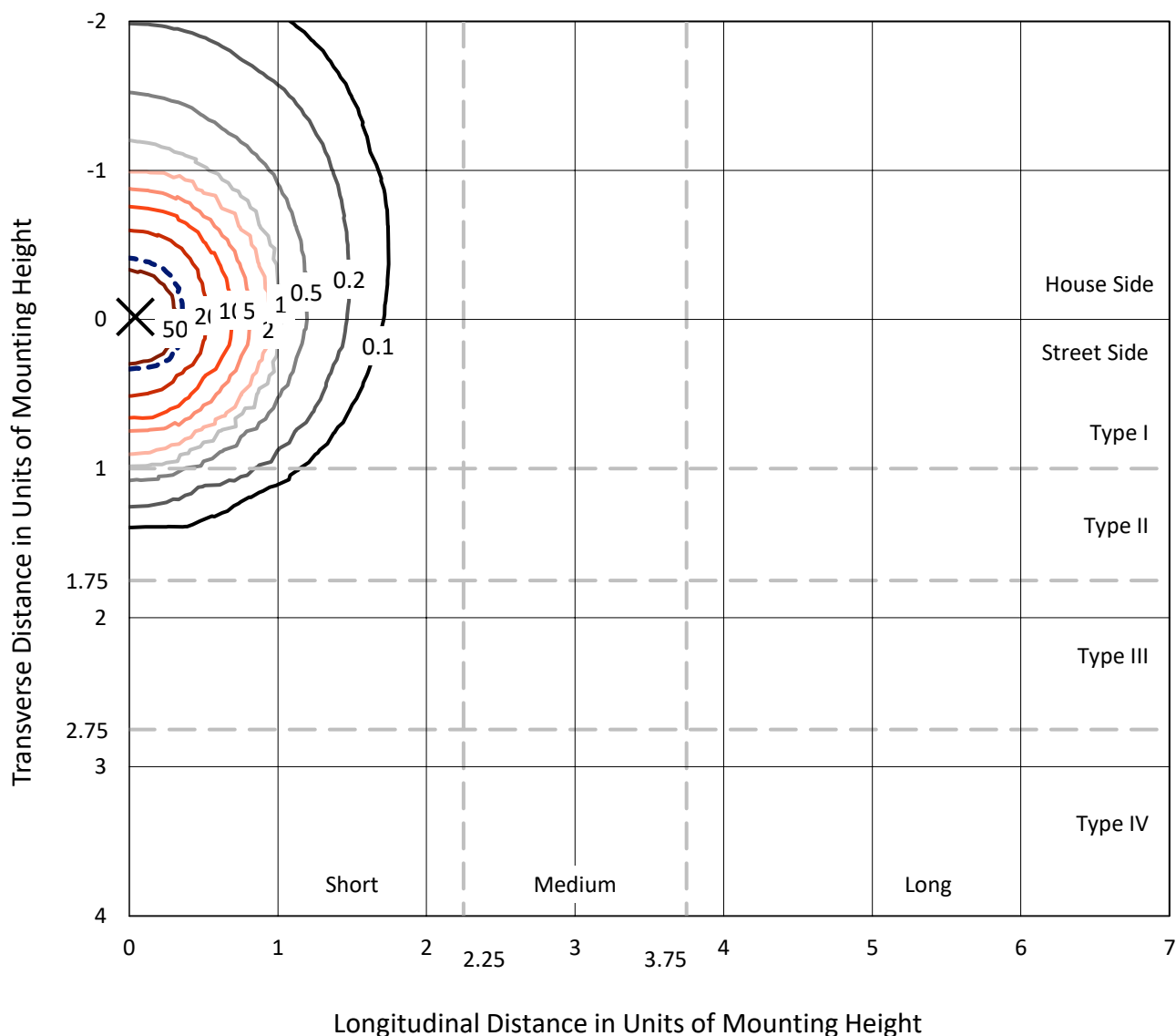
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

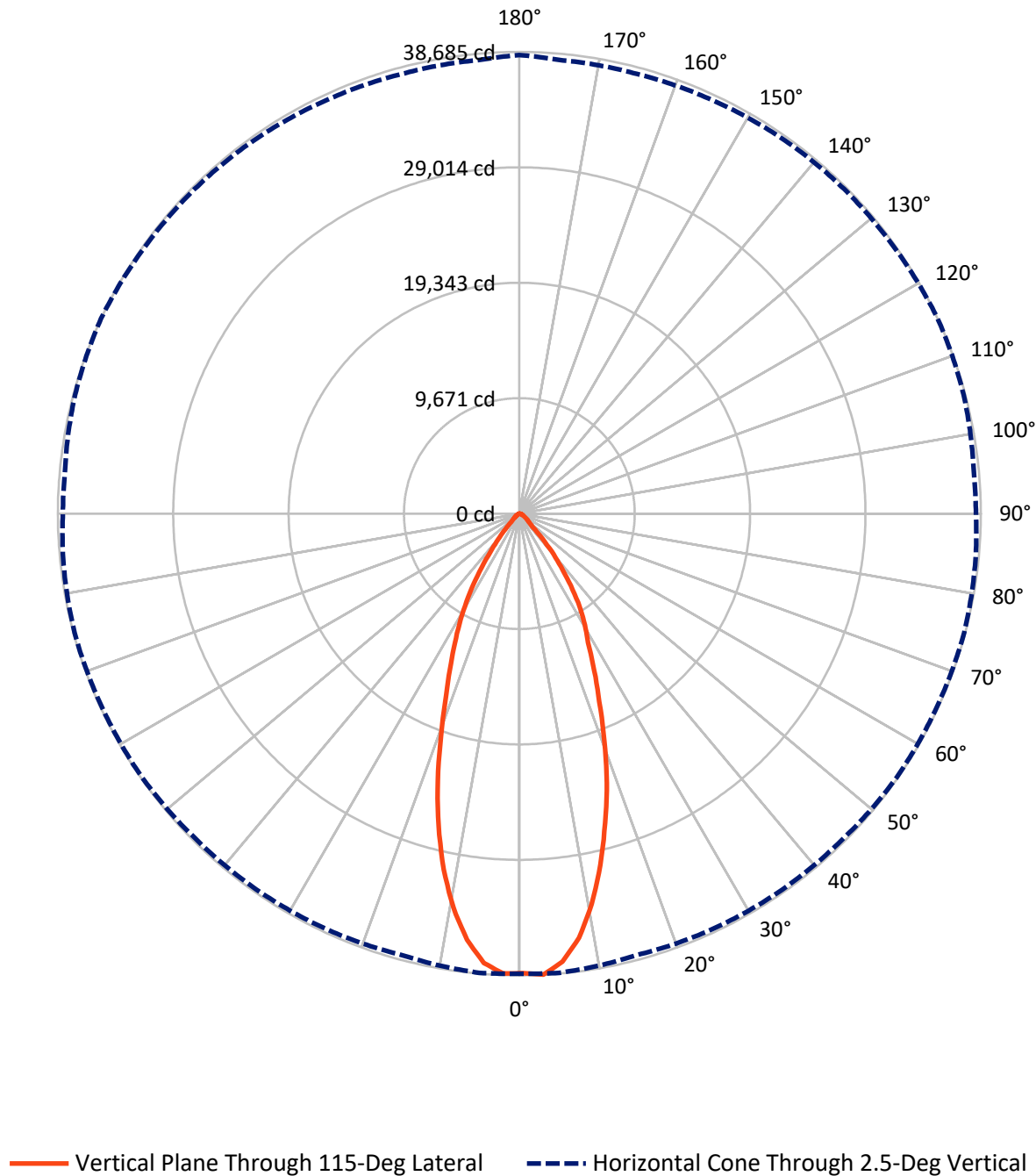


Based on 20 foot mounting height. Maximum calculated value = 96.3 fc

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	13219.1	0.0	13219.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10733.6	0.0	10733.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	23952.8	0.0	23952.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3453.5	14.4
10°-20°	7298.9	30.5
20°-30°	6587.7	27.5
30°-40°	4359.5	18.2
40°-50°	1305.9	5.5
50°-60°	523.9	2.2
60°-70°	271.3	1.1
70°-80°	117.8	0.5
80°-90°	34.3	0.1
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°	23952.8	100.0
0°-180°	23952.8	100.0

Coefficient of Utilization



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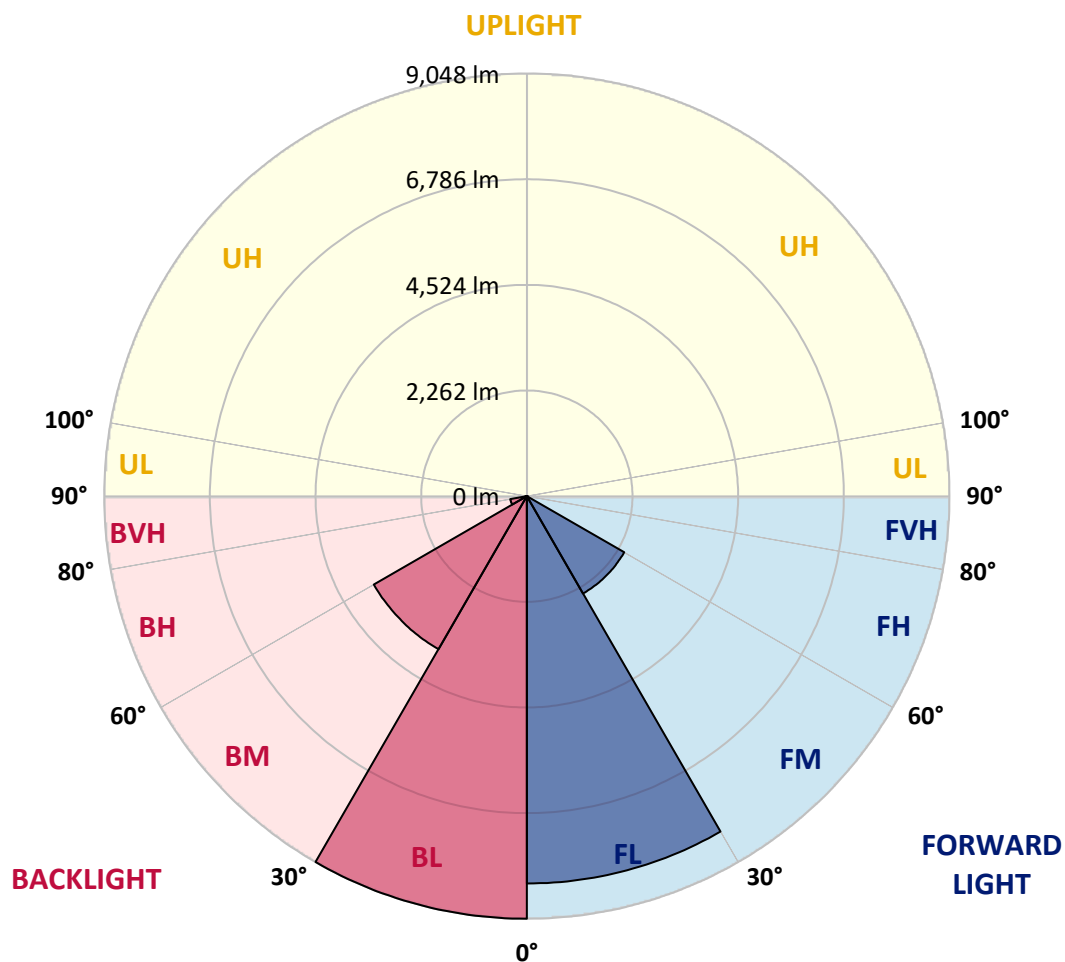
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8292.6	34.6			
FM	(30°-60°)	2406.3	10.0			
FH	(60°-80°)	29.8	0.1			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	9047.6	37.8	B5		
BM	(30°-60°)	3783.0	15.8	B3/5000		
BH	(60°-80°)	359.2	1.5	B1/500		G1/500
BVH	(80°-90°)	29.3	0.1			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°	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1
2.5°	38553.1	38621.6	38278.7	38396.3	38445.3	38460.0	38582.5	38562.9	38597.2	38415.9
5°	38043.6	37911.3	37656.6	37661.5	37646.8	37509.6	37788.9	37769.3	37710.5	37494.9
7.5°	36309.4	36500.5	36020.4	36010.6	36000.8	35834.3	36201.7	35976.3	36025.3	35716.7
10°	33771.9	33796.4	33370.2	33331.0	33365.3	33149.8	33575.9	33487.8	33580.8	33257.5
12.5°	30661.2	30798.4	30328.1	30259.5	30396.7	30092.9	30435.9	30479.9	30342.8	30298.7
15°	24047.9	24410.4	25302.0	26663.8	27016.5	26761.8	27036.1	27031.2	27090.0	26756.9
17.5°	18321.3	18355.6	18144.9	18796.5	22568.5	23793.2	23852.0	23386.6	23033.9	22911.4
20°	15994.4	16111.9	15920.9	15974.8	16577.3	20168.1	20305.3	19604.7	19002.2	18953.2
22.5°	14142.7	14216.1	14079.0	14123.1	14152.5	14573.7	16959.4	16342.2	16053.2	15832.7
25°	12575.1	12575.1	12501.6	12516.3	12486.9	11864.7	13089.4	13794.8	13628.3	13549.9
27.5°	11144.6	11164.2	11071.1	11125.0	10767.4	9763.2	9616.2	11698.2	11521.8	11379.8
30°	9787.7	9851.4	9763.2	9792.6	9013.7	8190.7	7769.4	9758.3	9978.7	9939.5
32.5°	7367.7	7656.7	8367.0	8396.4	7338.3	6706.4	6520.2	7833.1	8670.8	8597.3
35°	4565.6	4550.9	4580.3	5991.2	5628.6	5197.6	5266.1	5917.7	6863.1	6828.8
37.5°	3483.0	3478.1	3532.0	3389.9	3688.7	3943.5	3997.4	3997.4	5011.4	5016.3
40°	2640.4	2620.8	2615.9	2390.6	2003.6	2958.8	2870.7	2797.2	3483.0	3556.5
42.5°	1685.2	1744.0	1699.9	1454.9	1308.0	1616.6	1802.7	1744.0	2150.5	2204.4
45°	940.6	940.6	901.4	764.2	759.3	818.1	1028.7	960.2	1102.2	1175.7
47.5°	455.6	445.8	489.9	602.5	627.0	607.4	734.8	764.2	832.8	901.4
50°	367.4	367.4	347.8	313.5	519.3	499.7	543.8	582.9	622.1	680.9
52.5°	308.6	308.6	284.1	264.5	298.8	382.1	387.0	460.5	455.6	538.9
55°	156.8	161.7	230.2	230.2	200.8	313.5	318.4	372.3	382.1	450.7
57.5°	14.7	19.6	29.4	142.1	156.8	171.5	240.0	274.3	318.4	347.8
60°	4.9	4.9	9.8	19.6	93.1	117.6	151.9	181.3	220.4	289.0
62.5°	0.0	0.0	4.9	9.8	19.6	73.5	83.3	93.1	132.3	181.3
65°	0.0	0.0	4.9	4.9	9.8	24.5	34.3	58.8	83.3	112.7
67.5°	0.0	0.0	4.9	4.9	9.8	14.7	19.6	29.4	39.2	73.5
70°	0.0	0.0	4.9	4.9	9.8	14.7	14.7	19.6	24.5	34.3
72.5°	0.0	0.0	4.9	4.9	9.8	19.6	14.7	14.7	19.6	24.5
75°	0.0	0.0	4.9	4.9	9.8	14.7	14.7	14.7	14.7	14.7
77.5°	0.0	0.0	4.9	4.9	9.8	14.7	14.7	14.7	9.8	9.8
80°	0.0	0.0	4.9	4.9	9.8	14.7	19.6	19.6	9.8	9.8
82.5°	0.0	0.0	4.9	9.8	9.8	24.5	29.4	24.5	9.8	4.9
85°	0.0	0.0	4.9	4.9	14.7	24.5	24.5	14.7	9.8	4.9
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	14.7	14.7	4.9	4.9
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°
38504.1	0°	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1	38504.1
38268.9	2.5°	38249.3	38548.2	38685.3	38543.3	38474.7	38376.7	38234.6	38136.7	38156.3
37377.4	5°	37294.1	37607.6	37715.4	37592.9	37490.0	37436.2	37411.7	37460.6	37588.0
35584.4	7.5°	35574.6	35775.5	35893.1	35834.3	35692.2	35853.9	35898.0	35868.6	36054.7
33159.6	10°	33169.4	33389.8	33282.0	33306.5	33140.0	33223.2	33198.7	33306.5	33492.7
30264.4	12.5°	30068.5	30279.1	30195.8	30181.1	30004.8	30161.5	30063.6	30181.1	30426.1
26619.7	15°	26810.8	26943.1	26889.2	26805.9	26649.1	26703.0	27006.7	26987.1	27094.9
22837.9	17.5°	22739.9	23376.8	23724.6	23798.1	23670.7	23778.5	23994.0	23940.1	24185.1
18850.3	20°	18816.1	19457.8	20315.1	21010.7	21025.4	21040.1	21177.2	21211.5	21422.2
15837.6	22.5°	15769.0	16224.6	17145.6	18066.5	18703.4	18835.6	18821.0	18869.9	18928.7
13442.1	25°	13407.8	13741.0	14583.5	15220.4	16337.3	16709.6	16817.4	16709.6	16743.9
11330.8	27.5°	11458.1	11967.6	12246.8	12927.8	14020.2	14882.4	14848.1	14784.4	14794.2
9861.2	30°	9856.3	10404.9	10816.4	11022.2	11845.1	13089.4	13216.8	13035.5	13040.4
8563.0	32.5°	8509.1	8680.6	9288.0	9454.6	9983.6	11115.2	11551.2	11414.1	11389.6
6848.4	35°	7049.3	7142.4	7421.6	7749.8	8063.3	8920.6	9640.7	9513.3	9577.0
5035.9	37.5°	5016.3	5398.4	5667.8	5937.3	6162.6	6701.5	7568.5	7451.0	7514.7
3566.3	40°	3536.9	3708.3	4173.7	4291.3	4624.4	4874.2	5609.1	5569.9	5648.2
2214.2	42.5°	2175.0	2297.5	2532.6	2645.3	2870.7	3012.7	3443.8	3492.8	3595.7
1224.7	45°	1234.5	1288.4	1450.0	1572.5	1739.1	1797.8	1949.7	2018.3	2077.1
950.4	47.5°	940.6	999.3	1107.1	1214.9	1352.1	1401.0	1508.8	1611.7	1665.6
734.8	50°	769.1	823.0	935.7	1023.8	1161.0	1205.1	1293.3	1405.9	1474.5
558.5	52.5°	582.9	661.3	798.5	891.6	1033.6	1087.5	1170.8	1283.5	1347.2
460.5	55°	480.1	538.9	661.3	788.7	921.0	994.4	1048.3	1185.5	1254.1
377.2	57.5°	411.5	455.6	534.0	685.8	798.5	906.3	950.4	1077.7	1146.3
298.8	60°	313.5	382.1	450.7	568.3	695.6	808.3	857.3	970.0	1023.8
215.5	62.5°	259.6	303.7	391.9	455.6	597.6	715.2	764.2	867.1	906.3
142.1	65°	181.3	244.9	328.2	367.4	499.7	612.3	680.9	759.3	798.5
83.3	67.5°	107.8	181.3	259.6	313.5	406.6	519.3	592.7	666.2	700.5
49.0	70°	68.6	142.1	205.7	264.5	318.4	426.2	514.4	578.1	563.4
29.4	72.5°	39.2	88.2	151.9	215.5	264.5	357.6	440.9	489.9	347.8
19.6	75°	24.5	63.7	127.4	176.4	215.5	284.1	362.5	372.3	215.5
9.8	77.5°	19.6	49.0	98.0	142.1	147.0	210.6	254.7	289.0	161.7
9.8	80°	9.8	39.2	83.3	117.6	93.1	147.0	195.9	225.3	127.4
4.9	82.5°	9.8	24.5	63.7	83.3	68.6	112.7	142.1	161.7	107.8
4.9	85°	4.9	19.6	34.3	49.0	49.0	73.5	63.7	78.4	68.6
4.9	87.5°	4.9	9.8	19.6	24.5	19.6	29.4	34.3	34.3	29.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
38504.1
38420.8
37852.5
36240.9
33566.2
30470.1
27119.4
24145.9
21378.1
18821.0
16690.0
14808.9
13045.3
11448.4
9635.8
7568.5
5677.6
3713.2
2072.2
1690.1
1503.9
1391.2
1273.7
1175.7
1033.6
911.2
798.5
695.6
519.3
308.6
200.8
161.7
132.3
117.6
68.6
24.5
0.0

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