

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: P636547

Luminaire Tested: **IFLD-S-SA6D-950-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-950-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27338.9 lumens
Efficiency: N/A
Efficacy: 74.3 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



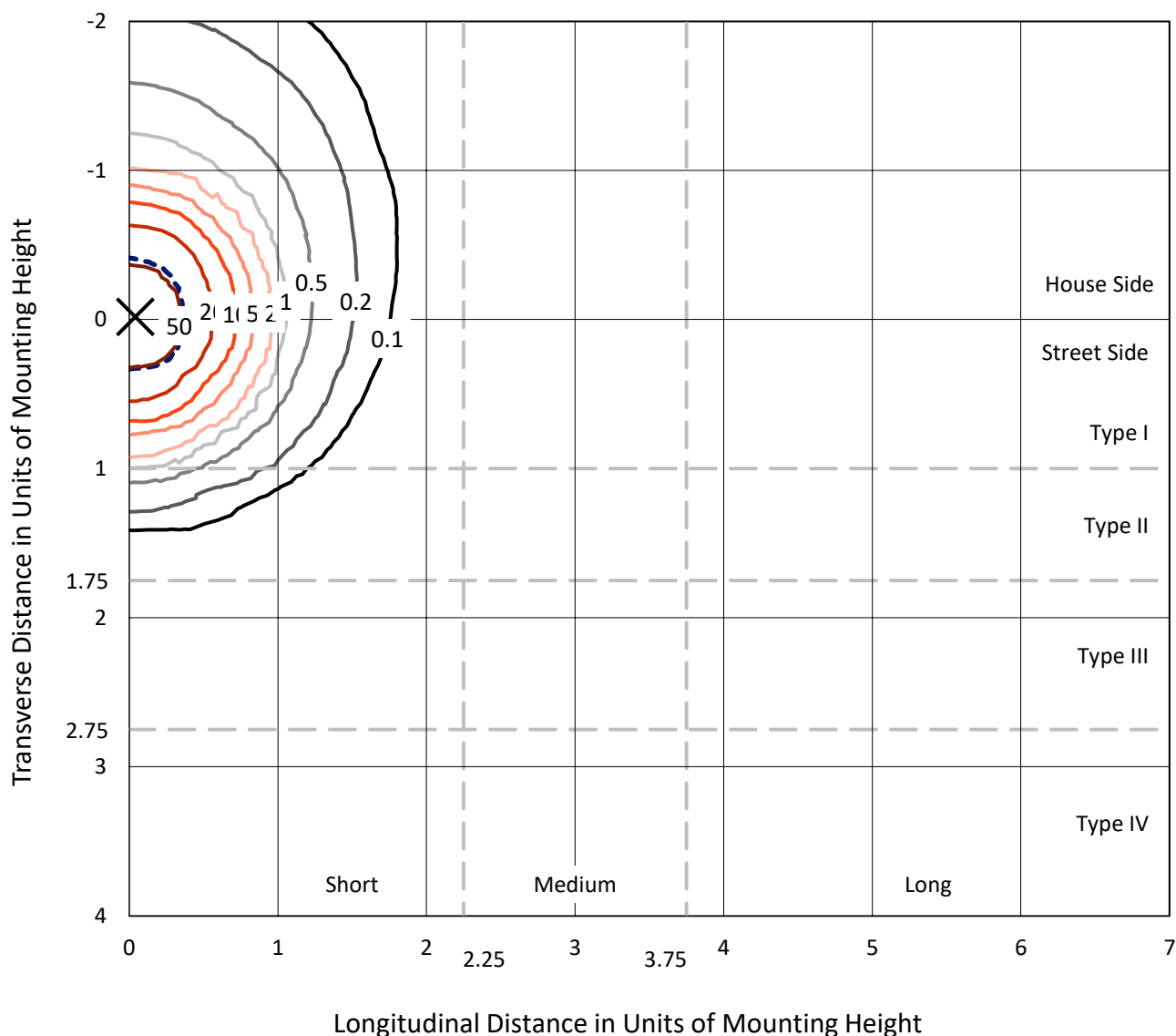
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

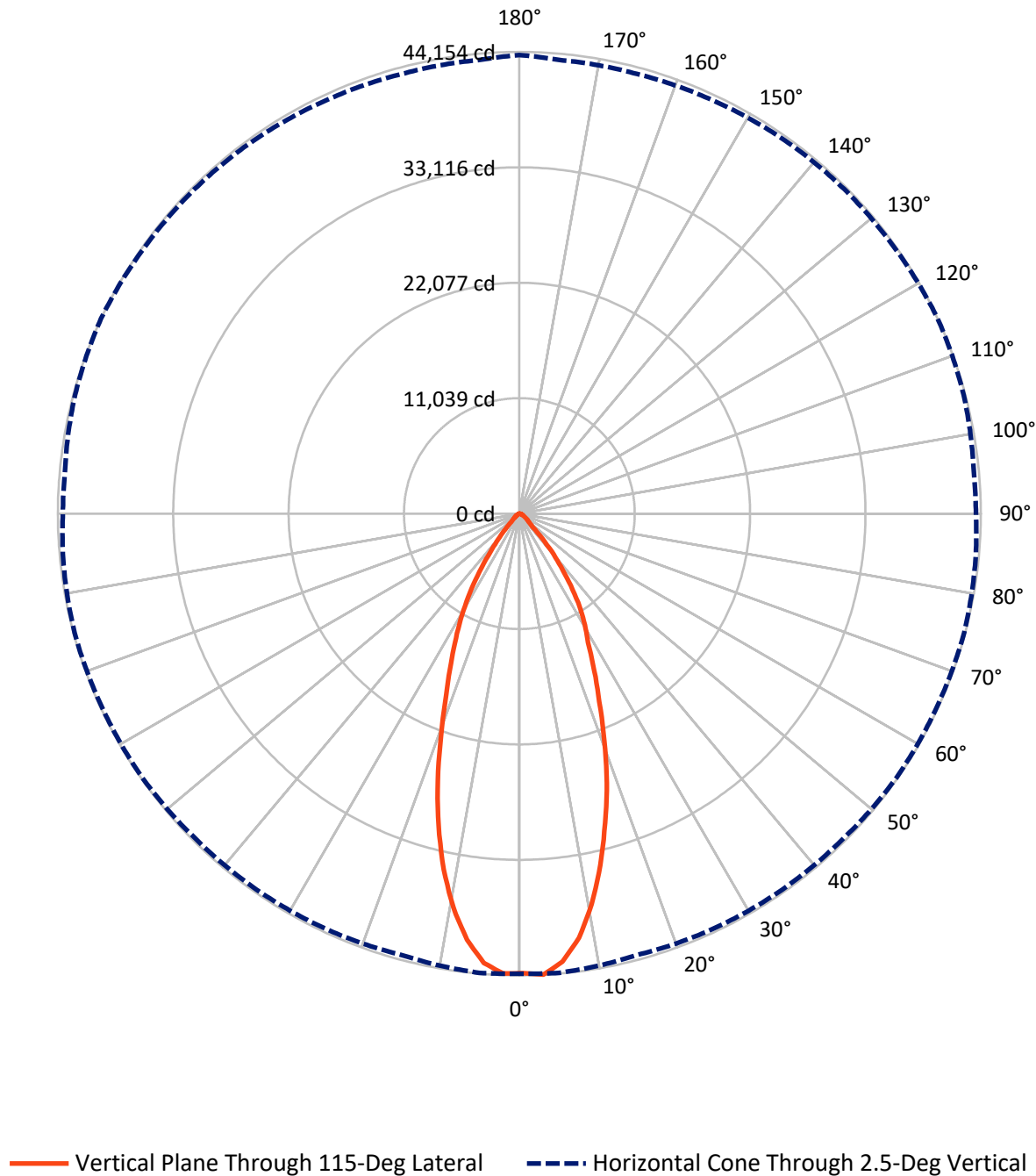


Based on 20 foot mounting height. Maximum calculated value = 109.9 fc

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	15087.9	0.0	15087.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12251.0	0.0	12251.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	27338.9	0.0	27338.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3941.7	14.4
10°-20°	8330.8	30.5
20°-30°	7519.0	27.5
30°-40°	4975.8	18.2
40°-50°	1490.5	5.5
50°-60°	597.9	2.2
60°-70°	309.6	1.1
70°-80°	134.4	0.5
80°-90°	39.1	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°	27338.9	100.0
0°-180°	27338.9	100.0

Coefficient of Utilization



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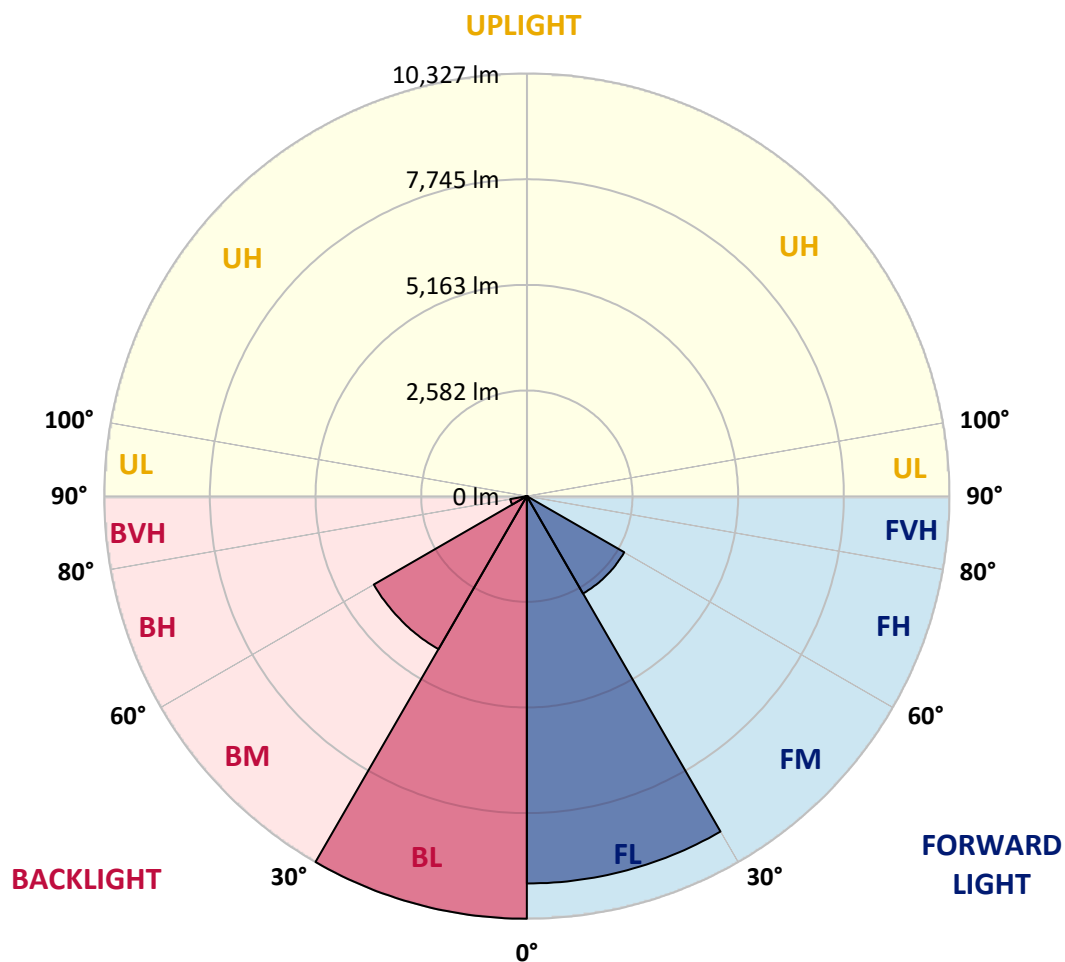
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9464.9	34.6			
FM	(30°-60°)	2746.4	10.0			
FH	(60°-80°)	34.0	0.1			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	10326.6	37.8	B5		
BM	(30°-60°)	4317.8	15.8	B3/5000		
BH	(60°-80°)	410.0	1.5	B1/500		G1/500
BVH	(80°-90°)	33.5	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°	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3
2.5°	44003.2	44081.5	43690.1	43824.3	43880.2	43897.0	44036.8	44014.4	44053.6	43846.7
5°	43421.7	43270.8	42980.0	42985.6	42968.8	42812.3	43131.0	43108.6	43041.5	42795.5
7.5°	41442.4	41660.5	41112.5	41101.4	41090.2	40900.1	41319.4	41062.2	41118.1	40765.9
10°	38546.2	38574.1	38087.7	38042.9	38082.1	37836.1	38322.5	38221.9	38328.1	37959.1
12.5°	34995.7	35152.3	34615.5	34537.2	34693.8	34347.1	34738.5	34788.8	34632.3	34582.0
15°	27447.5	27861.3	28878.9	30433.2	30835.8	30545.1	30858.2	30852.6	30919.7	30539.5
17.5°	20911.3	20950.5	20710.0	21453.7	25758.9	27156.8	27223.9	26692.7	26290.1	26150.3
20°	18255.5	18389.7	18171.6	18233.1	18920.8	23019.2	23175.8	22376.2	21688.5	21632.6
22.5°	16142.0	16225.8	16069.3	16119.6	16153.2	16634.0	19356.9	18652.4	18322.6	18071.0
25°	14352.8	14352.8	14268.9	14285.7	14252.1	13542.0	14939.9	15745.0	15554.9	15465.4
27.5°	12720.1	12742.5	12636.3	12697.8	12289.6	11143.4	10975.6	13351.9	13150.6	12988.5
30°	11171.3	11244.0	11143.4	11176.9	10287.9	9348.6	8867.7	11137.8	11389.4	11344.7
32.5°	8409.3	8739.1	9549.9	9583.4	8375.7	7654.4	7442.0	8940.4	9896.5	9812.7
35°	5211.1	5194.3	5227.8	6838.1	6424.4	5932.3	6010.6	6754.2	7833.4	7794.2
37.5°	3975.4	3969.8	4031.3	3869.2	4210.2	4501.0	4562.5	4562.5	5719.9	5725.5
40°	3013.7	2991.3	2985.7	2728.5	2286.8	3377.1	3276.5	3192.6	3975.4	4059.3
42.5°	1923.4	1990.5	1940.2	1660.6	1492.9	1845.1	2057.6	1990.5	2454.6	2516.1
45°	1073.5	1073.5	1028.8	872.2	866.6	933.7	1174.2	1095.9	1258.0	1341.9
47.5°	520.0	508.8	559.1	687.7	715.7	693.3	838.7	872.2	950.5	1028.8
50°	419.3	419.3	397.0	357.8	592.7	570.3	620.6	665.4	710.1	777.2
52.5°	352.2	352.2	324.3	301.9	341.1	436.1	441.7	525.6	520.0	615.0
55°	178.9	184.5	262.8	262.8	229.2	357.8	363.4	424.9	436.1	514.4
57.5°	16.8	22.4	33.5	162.1	178.9	195.7	274.0	313.1	363.4	397.0
60°	5.6	5.6	11.2	22.4	106.2	134.2	173.3	206.9	251.6	329.9
62.5°	0.0	0.0	5.6	11.2	22.4	83.9	95.1	106.2	151.0	206.9
65°	0.0	0.0	5.6	5.6	11.2	28.0	39.1	67.1	95.1	128.6
67.5°	0.0	0.0	5.6	5.6	11.2	16.8	22.4	33.5	44.7	83.9
70°	0.0	0.0	5.6	5.6	11.2	16.8	16.8	22.4	28.0	39.1
72.5°	0.0	0.0	5.6	5.6	11.2	22.4	16.8	16.8	22.4	28.0
75°	0.0	0.0	5.6	5.6	11.2	16.8	16.8	16.8	16.8	16.8
77.5°	0.0	0.0	5.6	5.6	11.2	16.8	16.8	16.8	11.2	11.2
80°	0.0	0.0	5.6	5.6	11.2	16.8	22.4	22.4	11.2	11.2
82.5°	0.0	0.0	5.6	11.2	11.2	28.0	33.5	28.0	11.2	5.6
85°	0.0	0.0	5.6	5.6	16.8	28.0	28.0	16.8	11.2	5.6
87.5°	0.0	0.0	0.0	5.6	5.6	11.2	16.8	16.8	5.6	5.6
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°
43947.3	0°	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3	43947.3
43678.9	2.5°	43656.6	43997.6	44154.2	43992.0	43913.8	43801.9	43639.8	43528.0	43550.3
42661.3	5°	42566.3	42924.1	43047.1	42907.3	42789.9	42728.4	42700.5	42756.4	42901.8
40614.9	7.5°	40603.7	40833.0	40967.2	40900.1	40737.9	40922.4	40972.8	40939.2	41151.7
37847.3	10°	37858.4	38110.0	37987.0	38015.0	37824.9	37919.9	37892.0	38015.0	38227.5
34542.8	12.5°	34319.2	34559.6	34464.5	34447.8	34246.5	34425.4	34313.6	34447.8	34727.3
30382.9	15°	30601.0	30751.9	30690.4	30595.4	30416.5	30478.0	30824.6	30802.3	30925.3
26066.5	17.5°	25954.6	26681.5	27078.5	27162.4	27017.0	27140.0	27386.0	27324.5	27604.1
21515.2	20°	21476.0	22208.5	23187.0	23980.9	23997.7	24014.5	24171.0	24210.2	24450.6
18076.5	22.5°	17998.3	18518.3	19569.4	20620.6	21347.4	21498.4	21481.6	21537.5	21604.6
15342.4	25°	15303.3	15683.5	16645.2	17372.1	18646.9	19071.8	19194.8	19071.8	19110.9
12932.6	27.5°	13078.0	13659.5	13978.2	14755.3	16002.2	16986.3	16947.1	16874.4	16885.6
11255.2	30°	11249.6	11875.8	12345.5	12580.3	13519.7	14939.9	15085.2	14878.3	14883.9
9773.5	32.5°	9712.0	9907.7	10601.0	10791.1	11395.0	12686.6	13184.2	13027.6	12999.7
7816.6	35°	8045.8	8152.1	8470.8	8845.4	9203.2	10181.7	11003.6	10858.2	10930.9
5747.8	37.5°	5725.5	6161.6	6469.1	6776.6	7033.8	7648.8	8638.5	8504.3	8577.0
4070.4	40°	4036.9	4232.6	4763.8	4897.9	5278.2	5563.3	6402.0	6357.3	6446.7
2527.3	42.5°	2482.5	2622.3	2890.7	3019.3	3276.5	3438.6	3930.7	3986.6	4104.0
1397.8	45°	1409.0	1470.5	1655.0	1794.8	1984.9	2052.0	2225.3	2303.6	2370.7
1084.7	47.5°	1073.5	1140.6	1263.6	1386.6	1543.2	1599.1	1722.1	1839.5	1901.0
838.7	50°	877.8	939.3	1067.9	1168.6	1325.1	1375.5	1476.1	1604.7	1683.0
637.4	52.5°	665.4	754.8	911.4	1017.6	1179.8	1241.3	1336.3	1464.9	1537.6
525.6	55°	547.9	615.0	754.8	900.2	1051.2	1135.0	1196.5	1353.1	1431.4
430.5	57.5°	469.7	520.0	609.4	782.8	911.4	1034.4	1084.7	1230.1	1308.4
341.1	60°	357.8	436.1	514.4	648.6	794.0	922.6	978.5	1107.1	1168.6
246.0	62.5°	296.3	346.7	447.3	520.0	682.1	816.3	872.2	989.7	1034.4
162.1	65°	206.9	279.6	374.6	419.3	570.3	698.9	777.2	866.6	911.4
95.1	67.5°	123.0	206.9	296.3	357.8	464.1	592.7	676.5	760.4	799.6
55.9	70°	78.3	162.1	234.8	301.9	363.4	486.4	587.1	659.8	643.0
33.5	72.5°	44.7	100.6	173.3	246.0	301.9	408.2	503.2	559.1	397.0
22.4	75°	28.0	72.7	145.4	201.3	246.0	324.3	413.8	424.9	246.0
11.2	77.5°	22.4	55.9	111.8	162.1	167.7	240.4	290.7	329.9	184.5
11.2	80°	11.2	44.7	95.1	134.2	106.2	167.7	223.7	257.2	145.4
5.6	82.5°	11.2	28.0	72.7	95.1	78.3	128.6	162.1	184.5	123.0
5.6	85°	5.6	22.4	39.1	55.9	55.9	83.9	72.7	89.5	78.3
5.6	87.5°	5.6	11.2	22.4	28.0	22.4	33.5	39.1	39.1	33.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
43947.3
43852.3
43203.7
41364.2
38311.3
34777.6
30953.2
27559.3
24400.3
21481.6
19049.4
16902.4
14889.5
13066.8
10998.0
8638.5
6480.3
4238.2
2365.1
1929.0
1716.5
1587.9
1453.7
1341.9
1179.8
1040.0
911.4
794.0
592.7
352.2
229.2
184.5
151.0
134.2
78.3
28.0
0.0

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