

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: P637570

Luminaire Tested: **IFLD-L-SA7B-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637570
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27975.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 281
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



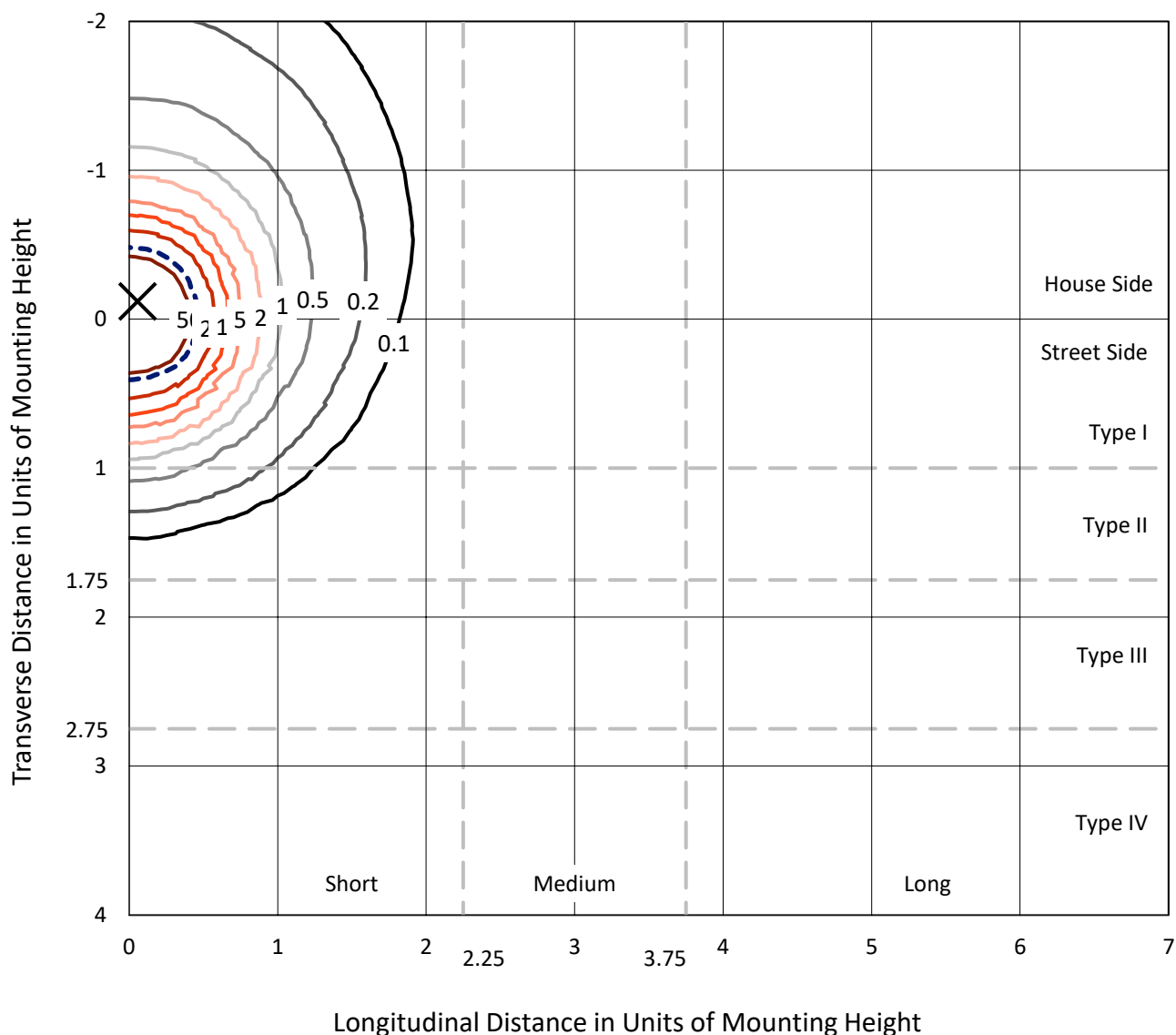
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

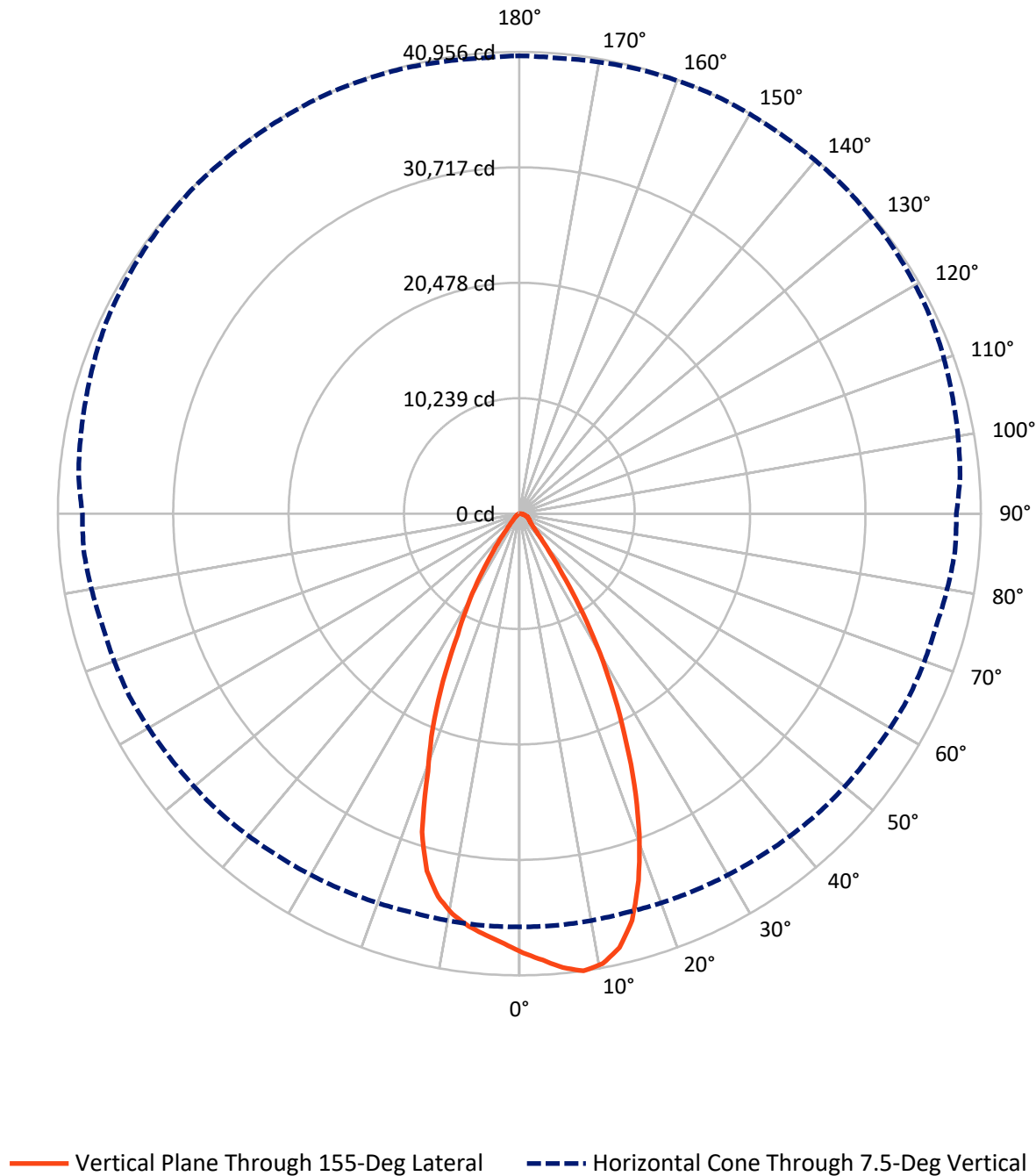


Based on 20 foot mounting height. Maximum calculated value = 99 fc

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	15443.7	0.0	15443.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12532.2	0.0	12532.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	27975.8	0.0	27975.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3716.3	13.3
10°-20°	9636.3	34.4
20°-30°	8829.6	31.6
30°-40°	3567.1	12.8
40°-50°	1046.4	3.7
50°-60°	585.1	2.1
60°-70°	355.4	1.3
70°-80°	180.6	0.6
80°-90°	59.1	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°	27975.8	100.0
0°-180°	27975.8	100.0

Coefficient of Utilization



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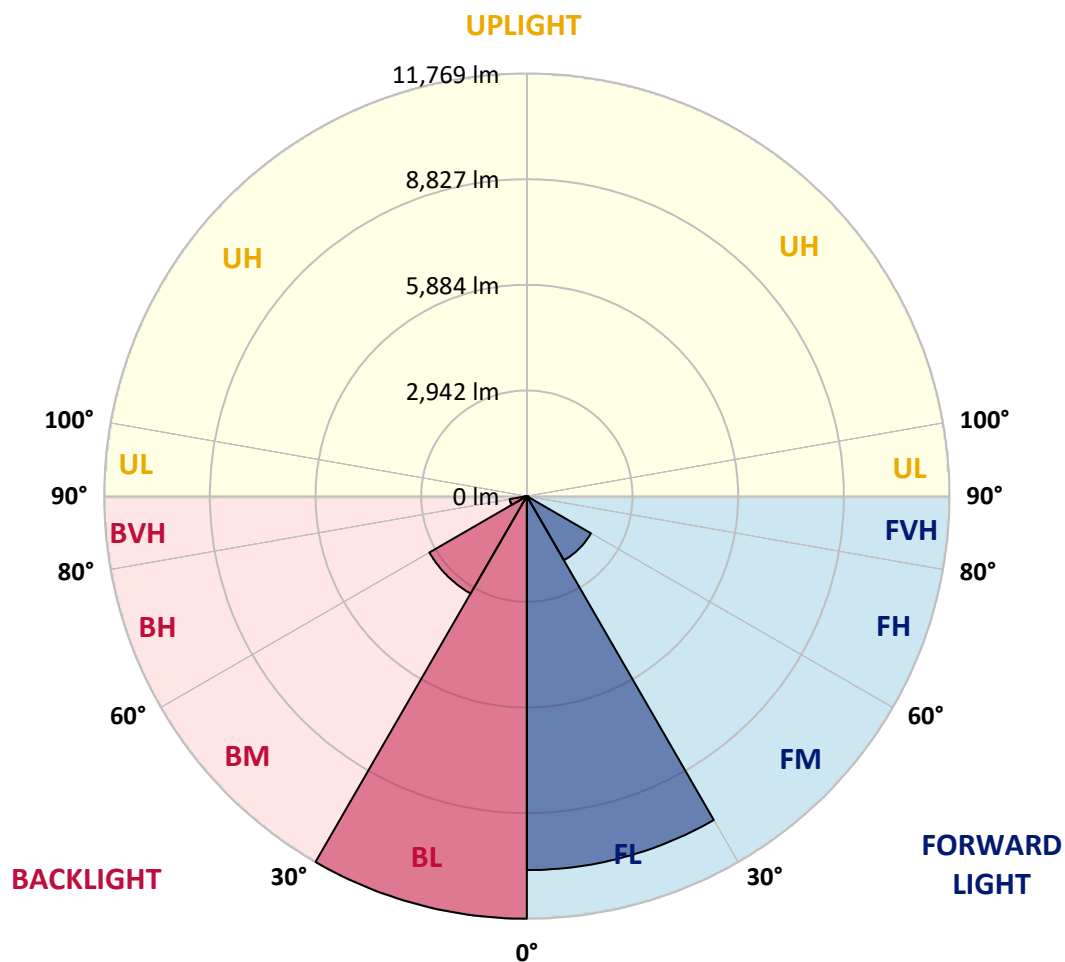
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10413.3	37.2			
FM	(30°-60°)	2063.7	7.4			
FH	(60°-80°)	50.0	0.2			G0/660
FVH	(80°-90°)	5.1	0.0			G0/10
BL	(0°-30°)	11768.9	42.1	B5		
BM	(30°-60°)	3134.9	11.2	B3/5000		
BH	(60°-80°)	485.9	1.7	B1/500		G1/500
BVH	(80°-90°)	53.9	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°	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5
2.5°	38127.3	38256.3	37998.3	38169.2	38301.5	38617.6	38643.5	38753.1	38791.8	39079.0
5°	37404.7	37504.7	37295.0	37524.1	37711.2	37991.8	38208.0	38511.2	38678.9	39017.7
7.5°	36653.1	36675.6	36633.7	36875.6	37156.3	37543.4	37811.2	38208.0	38311.2	38795.1
10°	35743.3	35578.8	35659.5	36014.3	36433.7	37027.3	37211.1	37607.9	37791.8	38285.4
12.5°	34291.7	34375.5	34275.5	34727.2	35075.6	35749.8	35943.3	36343.4	36695.0	37130.5
15°	32246.4	32198.0	32401.3	32752.9	33130.3	33665.8	33978.8	34414.3	34682.0	35133.6
17.5°	27649.5	27814.0	28652.7	29533.4	30307.6	30933.5	31307.7	31669.0	31862.5	32352.9
20°	23878.4	23671.9	23784.8	24281.6	26484.9	27443.0	27836.6	27923.7	28004.3	28391.4
22.5°	19662.1	19594.3	19971.8	20529.8	21052.4	23262.2	23797.7	23594.5	23762.2	24126.8
25°	14600.6	14942.5	15278.0	16349.0	17026.5	18110.4	19126.6	19216.9	19278.2	19507.2
27.5°	11884.3	11765.0	11758.5	12058.5	13058.6	13961.8	14826.4	15026.4	14990.9	15210.3
30°	9342.3	9303.6	9168.1	9239.1	9139.1	9942.3	10348.8	11171.4	11126.2	11132.7
32.5°	6739.0	6593.8	6539.0	6645.4	6542.2	6468.0	6822.8	7751.9	7735.8	7800.3
35°	4077.6	4058.2	4103.4	4196.9	3990.5	3984.0	4058.2	4932.5	5038.9	5142.1
37.5°	2251.7	2232.3	2267.8	2613.0	2545.3	2484.0	2503.3	2964.6	3271.1	3348.5
40°	1483.9	1480.7	1506.5	1567.8	1683.9	1661.4	1671.0	1877.5	2167.8	2235.6
42.5°	993.6	996.8	1012.9	1083.9	1100.0	1216.2	1196.8	1245.2	1516.2	1574.3
45°	793.6	790.4	800.0	767.8	787.1	906.5	919.4	922.6	1154.9	1190.4
47.5°	625.8	625.8	635.5	593.6	583.9	658.1	725.8	735.5	922.6	971.0
50°	438.7	438.7	487.1	467.8	490.3	512.9	587.1	596.8	754.9	806.5
52.5°	322.6	329.0	335.5	338.7	412.9	409.7	474.2	519.4	571.0	661.3
55°	245.2	251.6	235.5	251.6	306.5	341.9	354.9	419.4	454.9	554.9
57.5°	161.3	177.4	164.5	193.6	206.5	264.5	283.9	345.2	367.8	454.9
60°	22.6	25.8	41.9	135.5	145.2	174.2	219.4	274.2	296.8	371.0
62.5°	3.2	3.2	9.7	22.6	96.8	116.1	164.5	190.3	219.4	277.4
65°	0.0	0.0	3.2	6.5	19.4	67.7	83.9	103.2	151.6	200.0
67.5°	0.0	0.0	3.2	6.5	9.7	22.6	35.5	67.7	87.1	138.7
70°	0.0	0.0	3.2	6.5	9.7	12.9	19.4	25.8	51.6	80.6
72.5°	0.0	0.0	3.2	6.5	9.7	12.9	16.1	19.4	22.6	51.6
75°	0.0	0.0	3.2	6.5	9.7	16.1	19.4	19.4	19.4	22.6
77.5°	0.0	0.0	3.2	6.5	12.9	19.4	22.6	19.4	16.1	16.1
80°	0.0	0.0	3.2	9.7	16.1	22.6	25.8	19.4	12.9	9.7
82.5°	0.0	0.0	3.2	9.7	16.1	22.6	25.8	22.6	12.9	9.7
85°	0.0	0.0	3.2	9.7	12.9	16.1	25.8	22.6	12.9	6.5
87.5°	0.0	0.0	0.0	3.2	3.2	6.5	12.9	9.7	6.5	3.2
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°
38972.5	0°	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5	38972.5
39072.5	2.5°	39362.8	39508.0	39762.9	39833.8	40053.2	39801.6	39662.8	39675.7	39375.7
38975.7	5°	39362.8	39695.1	40140.3	40353.2	40514.5	40501.6	40466.1	40375.8	40156.4
38782.2	7.5°	39259.6	39801.6	40414.5	40698.4	40891.9	40875.8	40956.4	40811.3	40543.5
38437.0	10°	38927.3	39398.3	40153.2	40385.5	40698.4	40704.8	40604.8	40633.9	40156.4
37175.7	12.5°	37882.1	38249.9	38911.2	39175.7	39556.4	39617.7	39508.0	39466.1	39014.4
35107.8	15°	35859.5	36072.4	36736.9	37001.5	37378.9	37327.3	37437.0	37391.8	36995.0
32314.2	17.5°	32901.3	32969.0	33665.8	33888.4	34243.3	34382.0	34217.5	34427.2	34085.2
28459.2	20°	28659.2	29023.7	29807.6	30149.6	30356.0	30604.4	30388.3	30623.8	30223.8
23781.6	22.5°	24355.8	24571.9	25281.6	25775.2	26159.1	26207.5	26126.8	26291.4	25752.6
19658.8	25°	19655.6	20013.7	20575.0	21220.2	21597.6	21829.9	21620.2	21726.7	21639.6
15245.8	27.5°	15503.8	15823.2	16245.8	16726.5	17294.2	17597.5	17429.7	17610.4	17184.5
11368.2	30°	11377.9	11539.2	12016.6	12526.3	13148.9	13516.7	13532.8	13716.7	13465.0
7964.8	32.5°	8022.9	8164.8	8458.4	8797.1	9390.7	9800.4	9735.9	9761.7	9606.8
5190.5	35°	5216.3	5406.7	5616.3	5777.6	6135.7	6587.4	6551.9	6519.6	6413.2
3413.0	37.5°	3487.2	3561.4	3677.6	3822.7	4055.0	4338.9	4432.4	4316.3	4271.1
2303.3	40°	2358.2	2487.2	2564.6	2674.3	2784.0	3022.7	3087.2	3064.6	3019.5
1613.0	42.5°	1674.3	1774.3	1871.0	1977.5	2035.6	2184.0	2309.8	2274.3	2254.9
1225.9	45°	1271.0	1361.3	1474.3	1554.9	1613.0	1700.1	1819.4	1832.3	1803.3
983.9	47.5°	1019.4	1100.0	1190.4	1290.4	1358.1	1413.0	1516.2	1554.9	1535.5
829.1	50°	864.6	925.8	1012.9	1112.9	1187.1	1235.5	1325.9	1367.8	1354.9
693.6	52.5°	735.5	809.7	890.4	974.2	1064.6	1112.9	1196.8	1258.1	1248.4
574.2	55°	609.7	706.5	790.4	874.2	977.5	1025.8	1100.0	1180.7	1164.6
487.1	57.5°	532.3	612.9	700.0	780.7	890.4	954.9	1022.6	1106.5	1103.3
400.0	60°	445.2	525.8	622.6	690.3	806.5	896.8	958.1	1045.2	1051.7
303.2	62.5°	354.9	454.9	529.1	622.6	729.1	835.5	893.6	980.7	1012.9
232.3	65°	264.5	374.2	458.1	551.6	651.6	771.0	822.6	909.7	942.0
167.7	67.5°	196.8	280.7	387.1	467.8	580.7	683.9	745.2	825.8	848.4
100.0	70°	148.4	216.1	322.6	393.6	509.7	593.6	654.9	716.2	745.2
67.7	72.5°	87.1	161.3	254.8	338.7	438.7	509.7	554.9	603.2	622.6
32.3	75°	61.3	122.6	200.0	280.7	354.9	412.9	454.9	496.8	516.1
16.1	77.5°	32.3	90.3	158.1	225.8	277.4	325.8	367.8	400.0	412.9
12.9	80°	19.4	64.5	129.0	177.4	212.9	254.8	296.8	319.4	316.1
9.7	82.5°	12.9	51.6	93.6	129.0	154.8	187.1	216.1	232.3	232.3
6.5	85°	9.7	35.5	64.5	100.0	103.2	129.0	135.5	151.6	154.8
6.5	87.5°	6.5	22.6	35.5	58.1	54.8	67.7	71.0	80.6	87.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
38972.5
39133.8
40227.4
40604.8
40017.7
38911.2
37120.8
34001.3
30191.5
25678.4
21584.7
17294.2
13510.2
9693.9
6319.6
4261.5
3025.9
2238.8
1800.1
1525.9
1351.7
1242.0
1164.6
1100.0
1051.7
1009.7
938.7
848.4
738.7
616.2
509.7
409.7
312.9
229.0
151.6
83.9
0.0

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