

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: P637582

Luminaire Tested: **IFLD-S-SA2E-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15481.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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

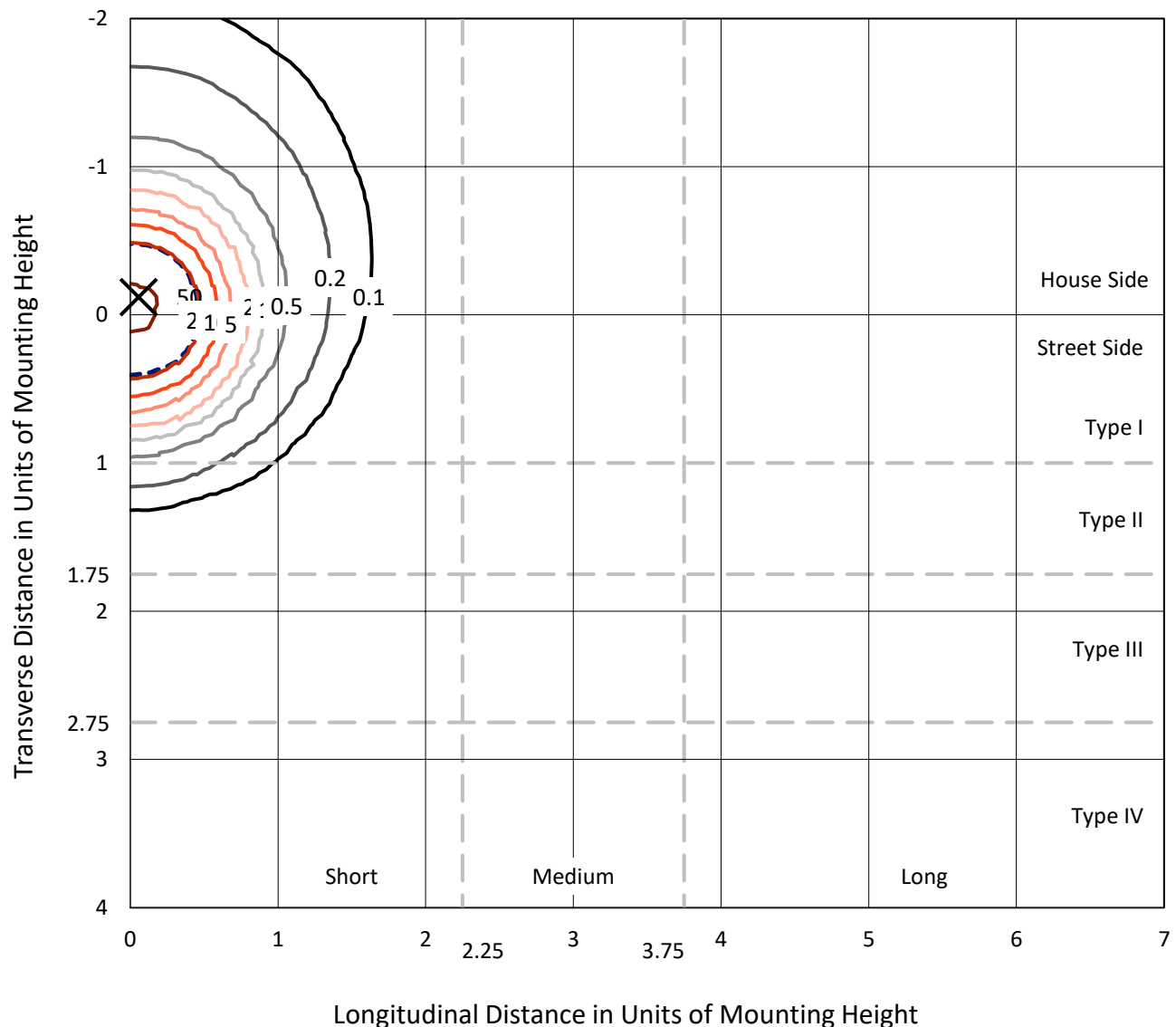


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



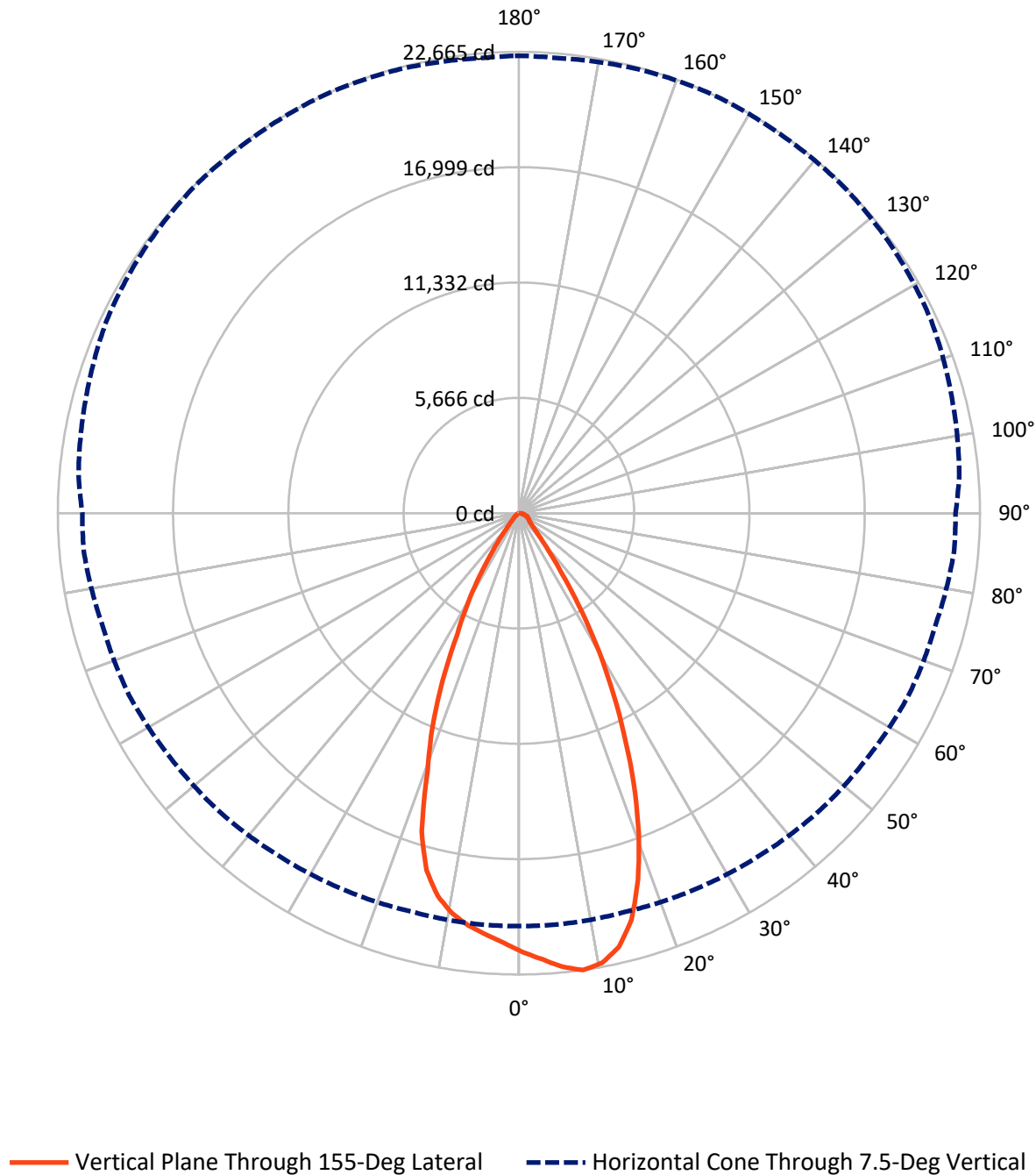
Based on 20 foot mounting height. Maximum calculated value = 54.8 fc

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	8546.4	0.0	8546.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6935.2	0.0	6935.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	15481.6	0.0	15481.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2056.6	13.3
10°-20°	5332.7	34.4
20°-30°	4886.2	31.6
30°-40°	1974.0	12.8
40°-50°	579.1	3.7
50°-60°	323.8	2.1
60°-70°	196.7	1.3
70°-80°	99.9	0.6
80°-90°	32.7	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°	15481.6	100.0
0°-180°	15481.6	100.0

Coefficient of Utilization



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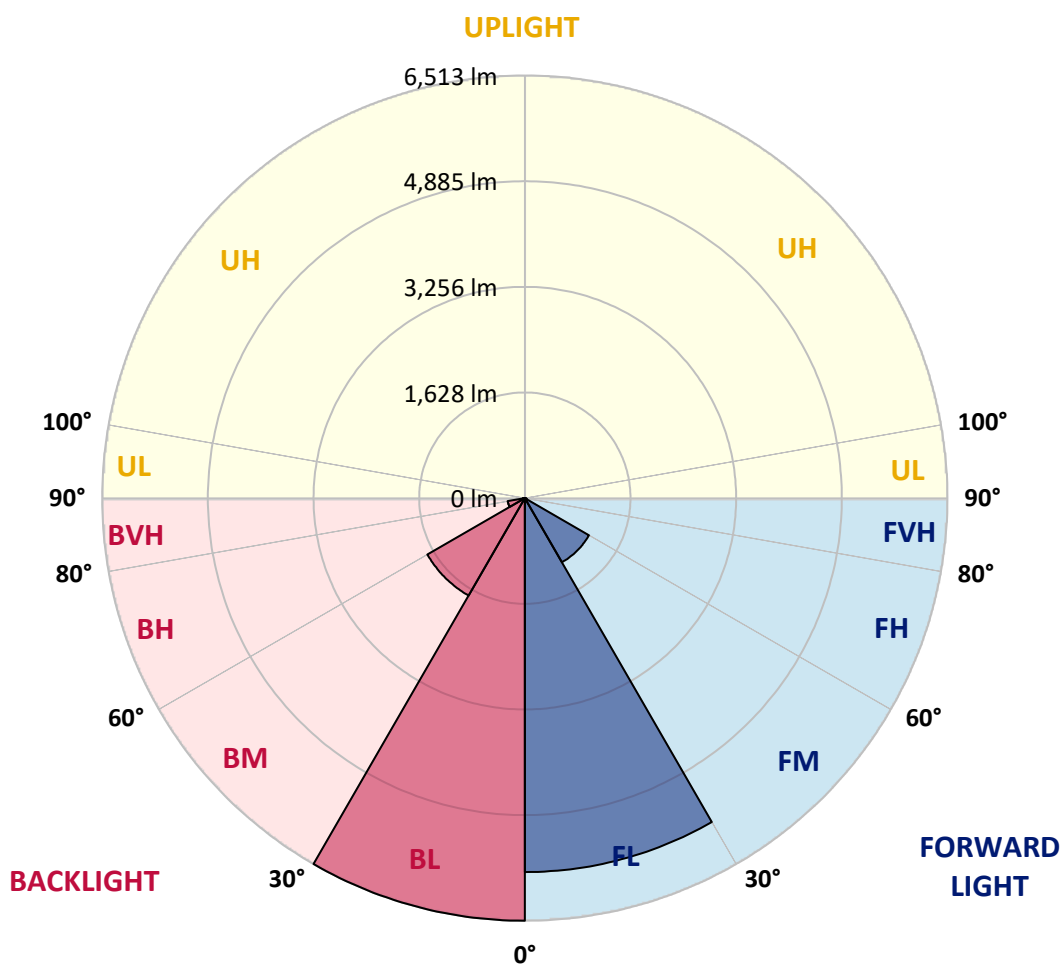
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5762.6	37.2			
FM	(30°-60°)	1142.0	7.4			
FH	(60°-80°)	27.7	0.2			G0/660
FVH	(80°-90°)	2.8	0.0			G0/10
BL	(0°-30°)	6512.8	42.1	B5		
BM	(30°-60°)	1734.8	11.2	B2/2500		
BH	(60°-80°)	268.9	1.7	B1/500		G1/500
BVH	(80°-90°)	29.8	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°	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0
2.5°	21099.3	21170.7	21027.9	21122.5	21195.7	21370.6	21384.9	21445.6	21467.0	21625.9
5°	20699.4	20754.7	20638.7	20765.4	20869.0	21024.3	21143.9	21311.7	21404.6	21592.0
7.5°	20283.4	20295.9	20272.7	20406.6	20561.9	20776.2	20924.3	21143.9	21201.0	21468.8
10°	19780.0	19689.0	19733.6	19930.0	20162.1	20490.5	20592.3	20811.9	20913.6	21186.8
12.5°	18976.7	19023.1	18967.8	19217.7	19410.5	19783.6	19890.7	20112.1	20306.7	20547.7
15°	17844.9	17818.1	17930.6	18125.1	18334.0	18630.3	18803.5	19044.5	19192.7	19442.6
17.5°	15301.0	15392.0	15856.1	16343.5	16772.0	17118.3	17325.4	17525.3	17632.4	17903.8
20°	13214.1	13099.8	13162.3	13437.2	14656.5	15186.7	15404.5	15452.7	15497.3	15711.5
22.5°	10880.8	10843.3	11052.2	11361.0	11650.2	12873.1	13169.4	13057.0	13149.8	13351.5
25°	8079.8	8269.0	8454.7	9047.4	9422.3	10022.1	10584.5	10634.4	10668.4	10795.1
27.5°	6576.7	6510.6	6507.1	6673.1	7226.5	7726.3	8204.8	8315.5	8295.8	8417.2
30°	5169.9	5148.5	5073.5	5112.8	5057.5	5502.0	5726.9	6182.1	6157.2	6160.7
32.5°	3729.3	3648.9	3618.6	3677.5	3620.4	3579.3	3775.7	4289.8	4280.9	4316.6
35°	2256.5	2245.8	2270.8	2322.5	2208.3	2204.7	2245.8	2729.6	2788.5	2845.6
37.5°	1246.1	1235.4	1255.0	1446.0	1408.5	1374.6	1385.3	1640.6	1810.2	1853.0
40°	821.2	819.4	833.7	867.6	931.9	919.4	924.7	1039.0	1199.7	1237.1
42.5°	549.8	551.6	560.6	599.8	608.8	673.0	662.3	689.1	839.0	871.2
45°	439.2	437.4	442.7	424.9	435.6	501.6	508.8	510.6	639.1	658.7
47.5°	346.3	346.3	351.7	328.5	323.1	364.2	401.7	407.0	510.6	537.3
50°	242.8	242.8	269.6	258.9	271.4	283.8	324.9	330.3	417.7	446.3
52.5°	178.5	182.1	185.7	187.4	228.5	226.7	262.4	287.4	316.0	366.0
55°	135.7	139.2	130.3	139.2	169.6	189.2	196.4	232.1	251.7	307.1
57.5°	89.3	98.2	91.0	107.1	114.3	146.4	157.1	191.0	203.5	251.7
60°	12.5	14.3	23.2	75.0	80.3	96.4	121.4	151.7	164.2	205.3
62.5°	1.8	1.8	5.4	12.5	53.6	64.3	91.0	105.3	121.4	153.5
65°	0.0	0.0	1.8	3.6	10.7	37.5	46.4	57.1	83.9	110.7
67.5°	0.0	0.0	1.8	3.6	5.4	12.5	19.6	37.5	48.2	76.8
70°	0.0	0.0	1.8	3.6	5.4	7.1	10.7	14.3	28.6	44.6
72.5°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	10.7	12.5	28.6
75°	0.0	0.0	1.8	3.6	5.4	8.9	10.7	10.7	10.7	12.5
77.5°	0.0	0.0	1.8	3.6	7.1	10.7	12.5	10.7	8.9	8.9
80°	0.0	0.0	1.8	5.4	8.9	12.5	14.3	10.7	7.1	5.4
82.5°	0.0	0.0	1.8	5.4	8.9	12.5	14.3	12.5	7.1	5.4
85°	0.0	0.0	1.8	5.4	7.1	8.9	14.3	12.5	7.1	3.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	7.1	5.4	3.6	1.8
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°
21567.0	0°	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0	21567.0
21622.3	2.5°	21783.0	21863.3	22004.4	22043.7	22165.0	22025.8	21949.0	21956.2	21790.2
21568.8	5°	21783.0	21966.9	22213.2	22331.1	22420.3	22413.2	22393.6	22343.6	22222.2
21461.7	7.5°	21725.9	22025.8	22365.0	22522.1	22629.2	22620.3	22664.9	22584.6	22436.4
21270.7	10°	21542.0	21802.7	22220.4	22348.9	22522.1	22525.7	22470.3	22486.4	22222.2
20572.6	12.5°	20963.6	21167.1	21533.1	21679.5	21890.1	21924.0	21863.3	21840.1	21590.2
19428.3	15°	19844.3	19962.1	20329.9	20476.2	20685.1	20656.6	20717.2	20692.3	20472.7
17882.4	17.5°	18207.3	18244.7	18630.3	18753.5	18949.9	19026.7	18935.6	19051.7	18862.4
15749.0	20°	15859.7	16061.4	16495.2	16684.5	16798.7	16936.2	16816.6	16946.9	16725.5
13160.5	22.5°	13478.3	13597.9	13990.6	14263.7	14476.2	14503.0	14458.3	14549.4	14251.3
10879.0	25°	10877.2	11075.4	11386.0	11743.0	11951.9	12080.4	11964.4	12023.3	11975.1
8436.9	27.5°	8579.7	8756.4	8990.3	9256.3	9570.5	9738.3	9645.4	9745.4	9509.8
6291.0	30°	6296.4	6385.7	6649.9	6931.9	7276.5	7480.0	7488.9	7590.7	7451.4
4407.7	32.5°	4439.8	4518.3	4680.8	4868.2	5196.7	5423.4	5387.7	5402.0	5316.3
2872.4	35°	2886.7	2992.0	3108.0	3197.3	3395.5	3645.4	3625.7	3607.9	3549.0
1888.7	37.5°	1929.8	1970.9	2035.1	2115.5	2244.0	2401.1	2452.9	2388.6	2363.6
1274.6	40°	1305.0	1376.4	1419.2	1479.9	1540.6	1672.7	1708.4	1695.9	1670.9
892.6	42.5°	926.5	981.9	1035.4	1094.3	1126.5	1208.6	1278.2	1258.6	1247.9
678.4	45°	703.4	753.4	815.8	860.5	892.6	940.8	1006.9	1014.0	997.9
544.5	47.5°	564.1	608.8	658.7	714.1	751.6	781.9	839.0	860.5	849.8
458.8	50°	478.4	512.4	560.6	615.9	657.0	683.7	733.7	756.9	749.8
383.8	52.5°	407.0	448.1	492.7	539.1	589.1	615.9	662.3	696.2	690.9
317.8	55°	337.4	391.0	437.4	483.8	540.9	567.7	608.8	653.4	644.5
269.6	57.5°	294.6	339.2	387.4	432.0	492.7	528.4	565.9	612.3	610.5
221.4	60°	246.4	291.0	344.5	382.0	446.3	496.3	530.2	578.4	582.0
167.8	62.5°	196.4	251.7	292.8	344.5	403.5	462.4	494.5	542.7	560.6
128.5	65°	146.4	207.1	253.5	305.3	360.6	426.7	455.2	503.4	521.3
92.8	67.5°	108.9	155.3	214.2	258.9	321.3	378.5	412.4	457.0	469.5
55.3	70°	82.1	119.6	178.5	217.8	282.1	328.5	362.4	396.3	412.4
37.5	72.5°	48.2	89.3	141.0	187.4	242.8	282.1	307.1	333.8	344.5
17.9	75°	33.9	67.8	110.7	155.3	196.4	228.5	251.7	274.9	285.6
8.9	77.5°	17.9	50.0	87.5	125.0	153.5	180.3	203.5	221.4	228.5
7.1	80°	10.7	35.7	71.4	98.2	117.8	141.0	164.2	176.7	174.9
5.4	82.5°	7.1	28.6	51.8	71.4	85.7	103.5	119.6	128.5	128.5
3.6	85°	5.4	19.6	35.7	55.3	57.1	71.4	75.0	83.9	85.7
3.6	87.5°	3.6	12.5	19.6	32.1	30.3	37.5	39.3	44.6	48.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
21567.0
21656.3
22261.4
22470.3
22145.4
21533.1
20542.3
18816.0
16707.7
14210.2
11944.8
9570.5
7476.4
5364.5
3497.2
2358.2
1674.5
1238.9
996.1
844.4
748.0
687.3
644.5
608.8
582.0
558.8
519.5
469.5
408.8
341.0
282.1
226.7
173.2
126.7
83.9
46.4
0.0

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