

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: P637586

Luminaire Tested: **IFLD-S-SA3D-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637586
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19936 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 184.1
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



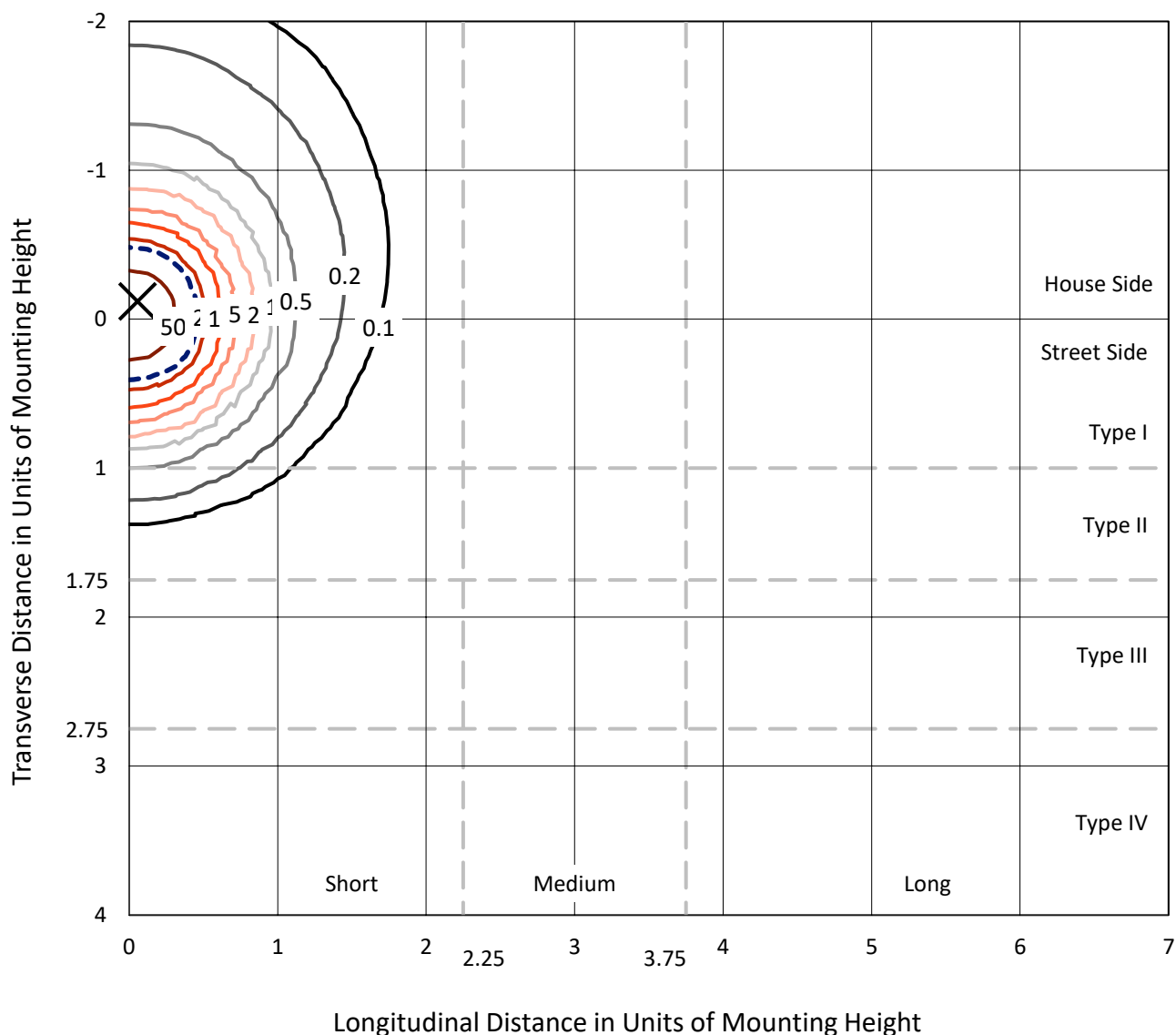
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

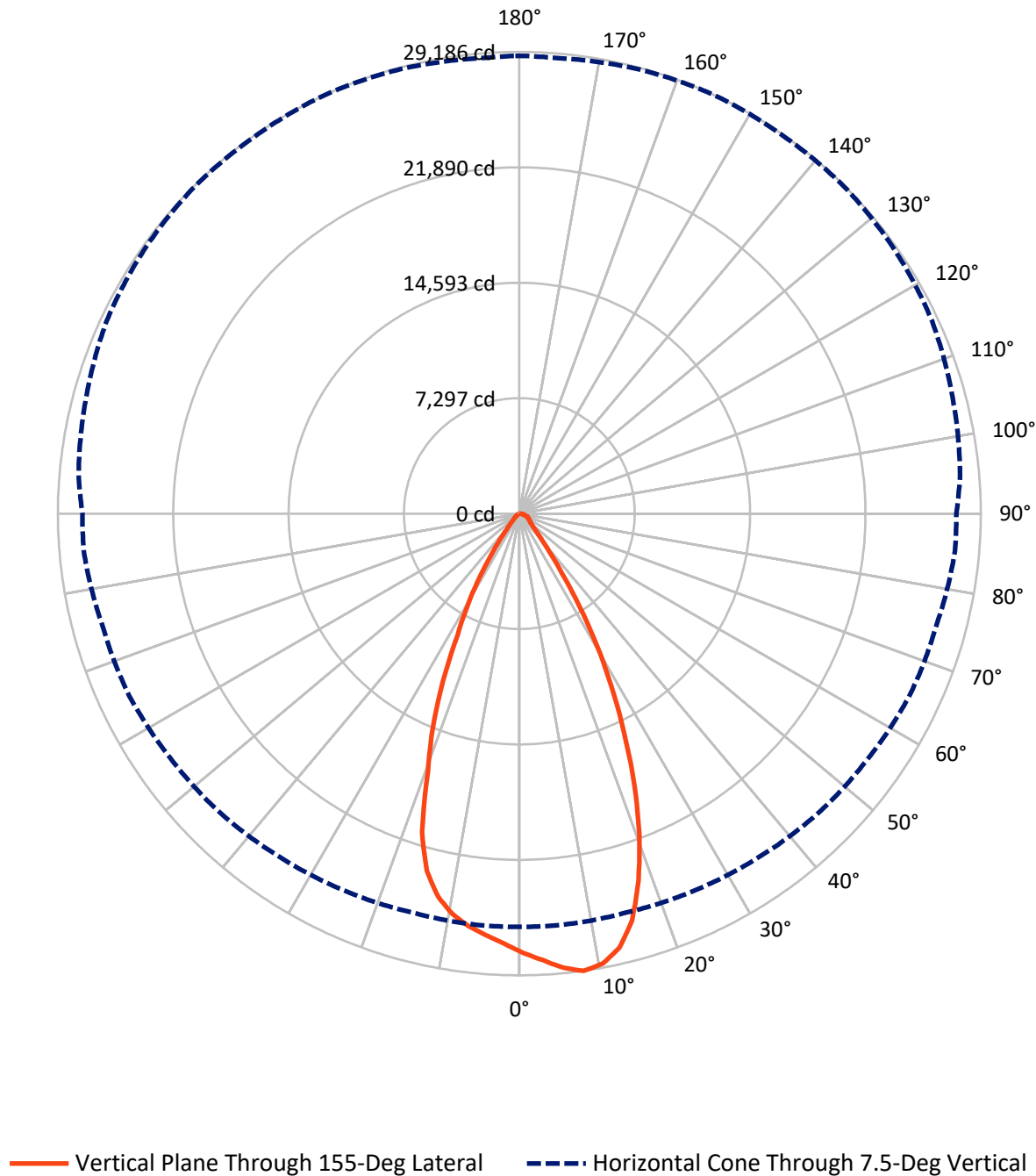


Based on 20 foot mounting height. Maximum calculated value = 70.6 fc

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	11005.4	0.0	11005.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8930.6	0.0	8930.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	19936.0	0.0	19936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2648.3	13.3
10°-20°	6867.0	34.4
20°-30°	6292.1	31.6
30°-40°	2542.0	12.8
40°-50°	745.7	3.7
50°-60°	416.9	2.1
60°-70°	253.2	1.3
70°-80°	128.7	0.6
80°-90°	42.1	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°	19936.0	100.0
0°-180°	19936.0	100.0

Coefficient of Utilization



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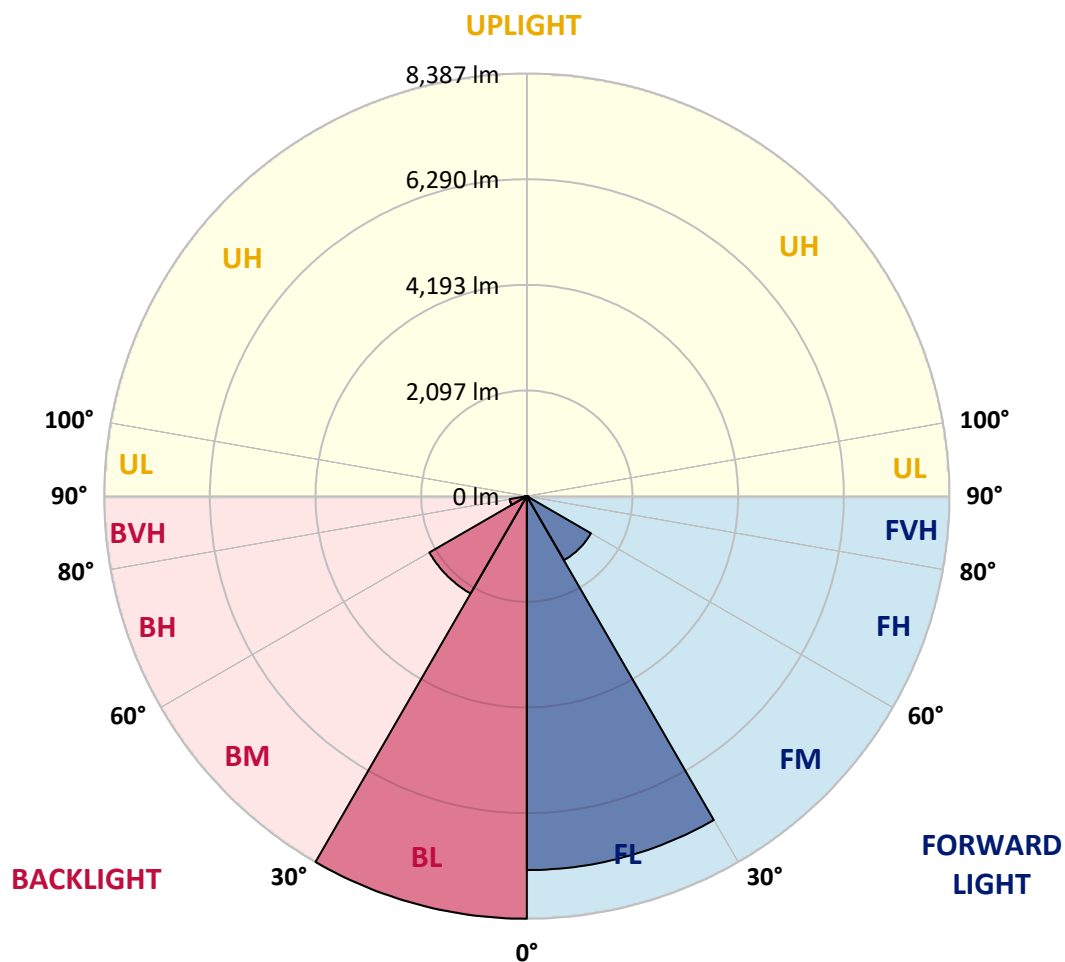
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7420.7	37.2			
FM	(30°-60°)	1470.6	7.4			
FH	(60°-80°)	35.6	0.2			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	8386.7	42.1	B5		
BM	(30°-60°)	2234.0	11.2	B2/2500		
BH	(60°-80°)	346.3	1.7	B1/500		G1/500
BVH	(80°-90°)	38.4	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°	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4
2.5°	27170.1	27262.0	27078.1	27200.0	27294.2	27519.5	27537.9	27616.1	27643.6	27848.2
5°	26655.1	26726.4	26577.0	26740.2	26873.5	27073.5	27227.5	27443.6	27563.2	27804.6
7.5°	26119.5	26135.6	26105.7	26278.1	26478.1	26754.0	26944.8	27227.5	27301.1	27645.9
10°	25471.2	25354.0	25411.5	25664.3	25963.2	26386.2	26517.2	26800.0	26931.0	27282.7
12.5°	24436.7	24496.5	24425.3	24747.1	24995.4	25475.8	25613.8	25898.8	26149.4	26459.7
15°	22979.3	22944.8	23089.6	23340.2	23609.2	23990.8	24213.8	24524.1	24714.9	25036.7
17.5°	19703.4	19820.7	20418.4	21045.9	21597.7	22043.6	22310.3	22567.8	22705.7	23055.1
20°	17016.1	16868.9	16949.4	17303.4	18873.5	19556.3	19836.8	19898.8	19956.3	20232.2
22.5°	14011.5	13963.2	14232.2	14629.9	15002.3	16577.0	16958.6	16813.8	16933.3	17193.1
25°	10404.6	10648.3	10887.3	11650.6	12133.3	12905.7	13629.9	13694.2	13737.9	13901.1
27.5°	8469.0	8383.9	8379.3	8593.1	9305.7	9949.4	10565.5	10708.0	10682.7	10839.1
30°	6657.5	6629.9	6533.3	6583.9	6512.6	7085.0	7374.7	7960.9	7928.7	7933.3
32.5°	4802.3	4698.8	4659.8	4735.6	4662.1	4609.2	4862.1	5524.1	5512.6	5558.6
35°	2905.7	2891.9	2924.1	2990.8	2843.7	2839.1	2891.9	3514.9	3590.8	3664.4
37.5°	1604.6	1590.8	1616.1	1862.1	1813.8	1770.1	1783.9	2112.6	2331.0	2386.2
40°	1057.5	1055.2	1073.6	1117.2	1200.0	1183.9	1190.8	1337.9	1544.8	1593.1
42.5°	708.0	710.3	721.8	772.4	783.9	866.7	852.9	887.4	1080.5	1121.8
45°	565.5	563.2	570.1	547.1	560.9	646.0	655.2	657.5	823.0	848.3
47.5°	446.0	446.0	452.9	423.0	416.1	469.0	517.2	524.1	657.5	692.0
50°	312.6	312.6	347.1	333.3	349.4	365.5	418.4	425.3	537.9	574.7
52.5°	229.9	234.5	239.1	241.4	294.3	292.0	337.9	370.1	406.9	471.3
55°	174.7	179.3	167.8	179.3	218.4	243.7	252.9	298.9	324.1	395.4
57.5°	114.9	126.4	117.2	137.9	147.1	188.5	202.3	246.0	262.1	324.1
60°	16.1	18.4	29.9	96.6	103.4	124.1	156.3	195.4	211.5	264.4
62.5°	2.3	2.3	6.9	16.1	69.0	82.8	117.2	135.6	156.3	197.7
65°	0.0	0.0	2.3	4.6	13.8	48.3	59.8	73.6	108.0	142.5
67.5°	0.0	0.0	2.3	4.6	6.9	16.1	25.3	48.3	62.1	98.9
70°	0.0	0.0	2.3	4.6	6.9	9.2	13.8	18.4	36.8	57.5
72.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	13.8	16.1	36.8
75°	0.0	0.0	2.3	4.6	6.9	11.5	13.8	13.8	13.8	16.1
77.5°	0.0	0.0	2.3	4.6	9.2	13.8	16.1	13.8	11.5	11.5
80°	0.0	0.0	2.3	6.9	11.5	16.1	18.4	13.8	9.2	6.9
82.5°	0.0	0.0	2.3	6.9	11.5	16.1	18.4	16.1	9.2	6.9
85°	0.0	0.0	2.3	6.9	9.2	11.5	18.4	16.1	9.2	4.6
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	9.2	6.9	4.6	2.3
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°
27772.4	0°	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4	27772.4
27843.6	2.5°	28050.5	28154.0	28335.6	28386.2	28542.5	28363.2	28264.3	28273.5	28059.7
27774.7	5°	28050.5	28287.3	28604.6	28756.3	28871.2	28862.0	28836.7	28772.4	28616.1
27636.7	7.5°	27977.0	28363.2	28800.0	29002.3	29140.2	29128.7	29186.2	29082.7	28891.9
27390.8	10°	27740.2	28075.8	28613.8	28779.3	29002.3	29006.9	28935.6	28956.3	28616.1
26491.9	12.5°	26995.4	27257.4	27728.7	27917.2	28188.5	28232.1	28154.0	28124.1	27802.3
25018.4	15°	25554.0	25705.7	26179.3	26367.8	26636.7	26600.0	26678.1	26645.9	26363.2
23027.6	17.5°	23445.9	23494.2	23990.8	24149.4	24402.3	24501.1	24383.9	24533.3	24289.6
20280.4	20°	20423.0	20682.7	21241.3	21485.0	21632.2	21809.2	21655.1	21823.0	21537.9
16947.1	22.5°	17356.3	17510.3	18016.1	18367.8	18641.4	18675.8	18618.4	18735.6	18351.7
14009.2	25°	14006.9	14262.0	14662.0	15121.8	15390.8	15556.3	15406.9	15482.7	15420.7
10864.4	27.5°	11048.3	11275.8	11577.0	11919.5	12324.1	12540.2	12420.7	12549.4	12246.0
8101.1	30°	8108.0	8223.0	8563.2	8926.4	9370.1	9632.2	9643.7	9774.7	9595.4
5675.9	32.5°	5717.2	5818.4	6027.6	6269.0	6691.9	6983.9	6937.9	6956.3	6846.0
3698.8	35°	3717.2	3852.9	4002.3	4117.2	4372.4	4694.2	4669.0	4646.0	4570.1
2432.2	37.5°	2485.1	2537.9	2620.7	2724.1	2889.7	3091.9	3158.6	3075.9	3043.7
1641.4	40°	1680.5	1772.4	1827.6	1905.7	1983.9	2154.0	2200.0	2183.9	2151.7
1149.4	42.5°	1193.1	1264.4	1333.3	1409.2	1450.6	1556.3	1646.0	1620.7	1606.9
873.6	45°	905.7	970.1	1050.6	1108.0	1149.4	1211.5	1296.5	1305.7	1285.1
701.1	47.5°	726.4	783.9	848.3	919.5	967.8	1006.9	1080.5	1108.0	1094.3
590.8	50°	616.1	659.8	721.8	793.1	846.0	880.5	944.8	974.7	965.5
494.3	52.5°	524.1	577.0	634.5	694.3	758.6	793.1	852.9	896.6	889.7
409.2	55°	434.5	503.4	563.2	623.0	696.6	731.0	783.9	841.4	829.9
347.1	57.5°	379.3	436.8	498.8	556.3	634.5	680.5	728.7	788.5	786.2
285.1	60°	317.2	374.7	443.7	492.0	574.7	639.1	682.8	744.8	749.4
216.1	62.5°	252.9	324.1	377.0	443.7	519.5	595.4	636.8	698.8	721.8
165.5	65°	188.5	266.7	326.4	393.1	464.4	549.4	586.2	648.3	671.3
119.5	67.5°	140.2	200.0	275.9	333.3	413.8	487.4	531.0	588.5	604.6
71.3	70°	105.7	154.0	229.9	280.5	363.2	423.0	466.7	510.3	531.0
48.3	72.5°	62.1	114.9	181.6	241.4	312.6	363.2	395.4	429.9	443.7
23.0	75°	43.7	87.4	142.5	200.0	252.9	294.3	324.1	354.0	367.8
11.5	77.5°	23.0	64.4	112.6	160.9	197.7	232.2	262.1	285.1	294.3
9.2	80°	13.8	46.0	92.0	126.4	151.7	181.6	211.5	227.6	225.3
6.9	82.5°	9.2	36.8	66.7	92.0	110.3	133.3	154.0	165.5	165.5
4.6	85°	6.9	25.3	46.0	71.3	73.6	92.0	96.6	108.0	110.3
4.6	87.5°	4.6	16.1	25.3	41.4	39.1	48.3	50.6	57.5	62.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27772.4
27887.3
28666.6
28935.6
28517.2
27728.7
26452.8
24229.8
21514.9
18298.8
15381.6
12324.1
9627.6
6908.0
4503.4
3036.8
2156.3
1595.4
1282.8
1087.4
963.2
885.1
829.9
783.9
749.4
719.5
669.0
604.6
526.4
439.1
363.2
292.0
223.0
163.2
108.0
59.8
0.0

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