

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: P637743

Luminaire Tested: **IFLD-L-SA7A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637743
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21613.3 lumens
Efficiency: N/A
Efficacy: 99.3 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): 217.6
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



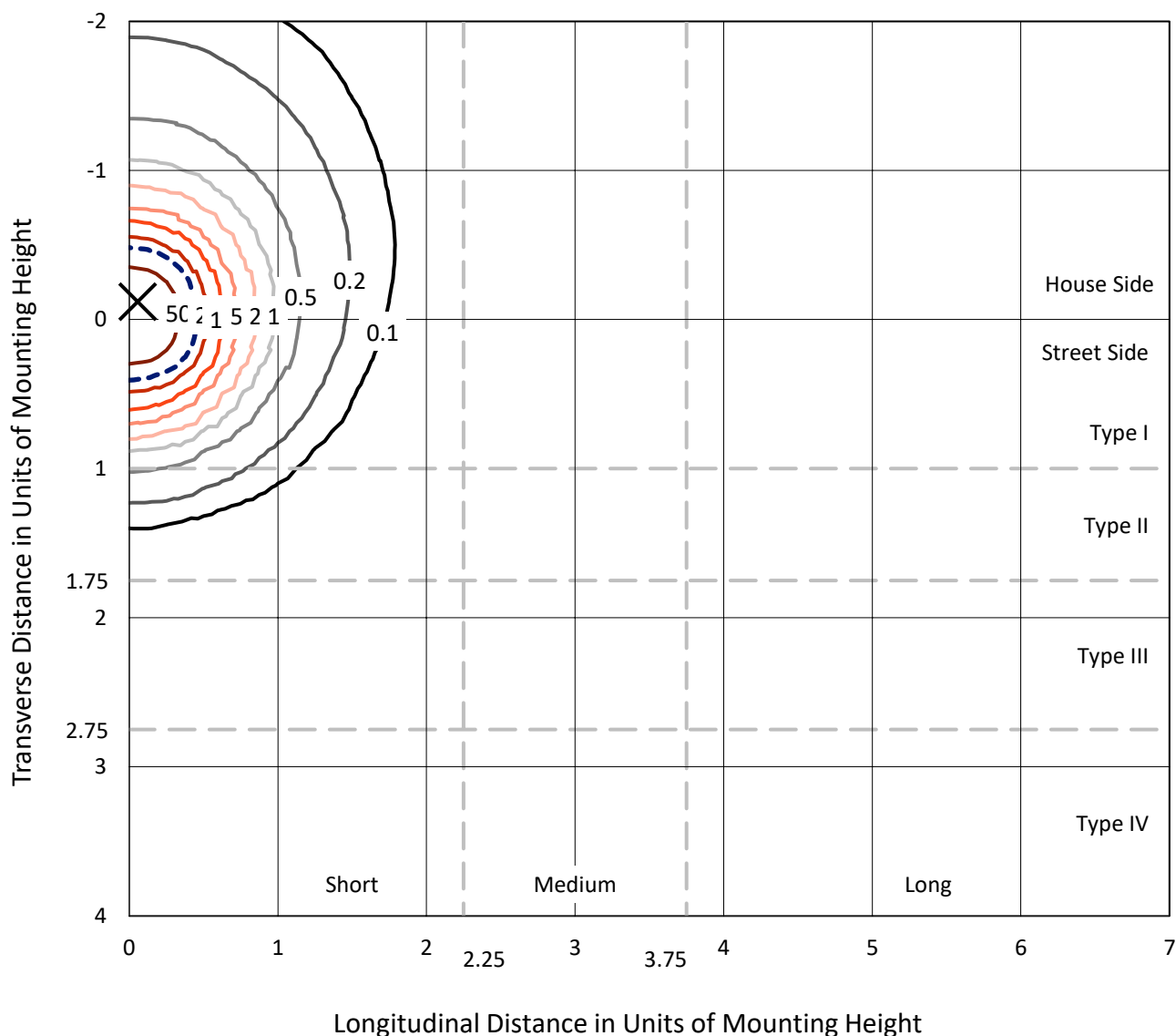
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

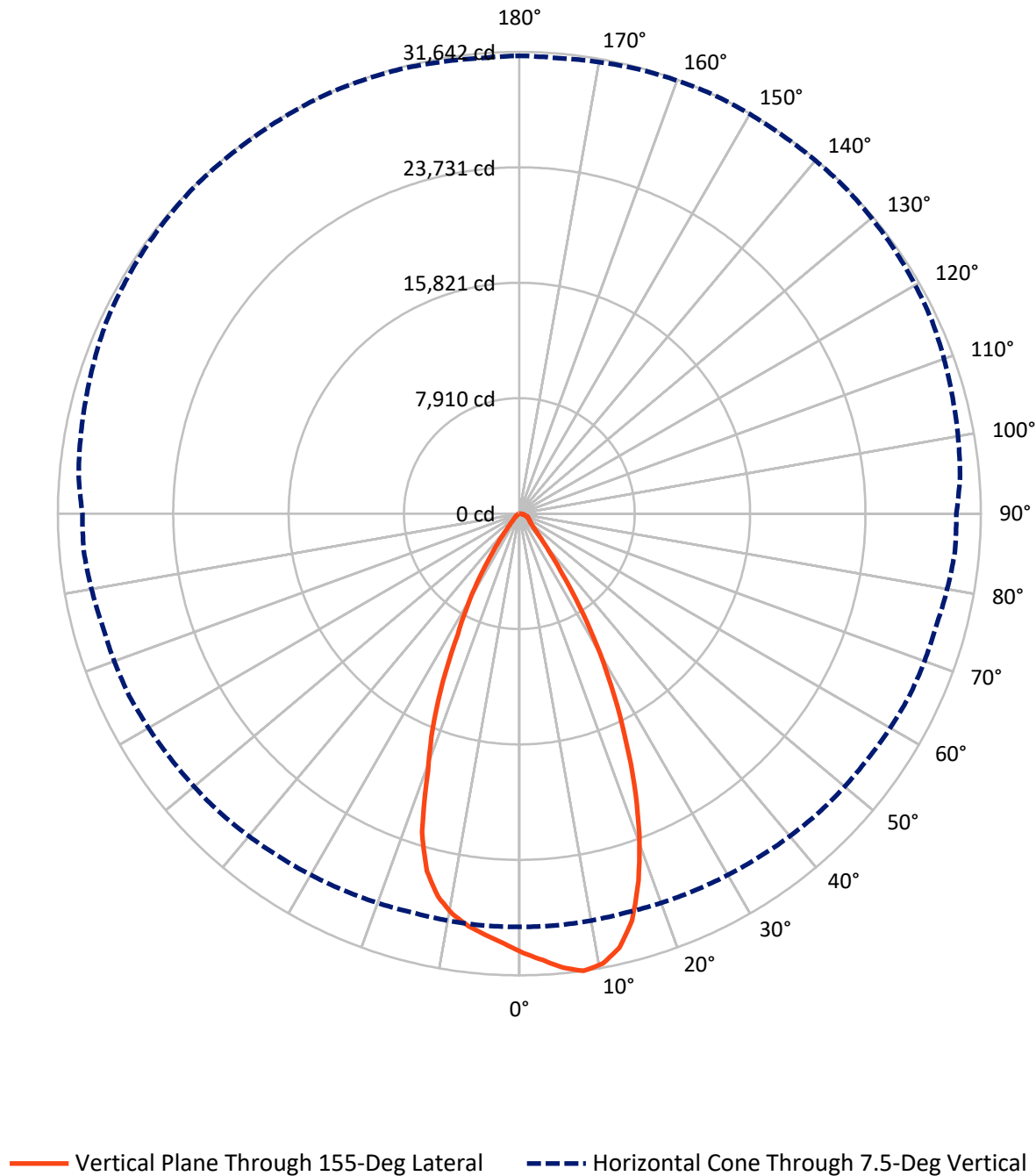


Based on 20 foot mounting height. Maximum calculated value = 76.5 fc

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	11931.3	0.0	11931.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9682.0	0.0	9682.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	21613.3	0.0	21613.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2871.1	13.3
10°-20°	7444.8	34.4
20°-30°	6821.5	31.6
30°-40°	2755.9	12.8
40°-50°	808.4	3.7
50°-60°	452.0	2.1
60°-70°	274.5	1.3
70°-80°	139.5	0.6
80°-90°	45.6	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°	21613.3	100.0
0°-180°	21613.3	100.0

Coefficient of Utilization



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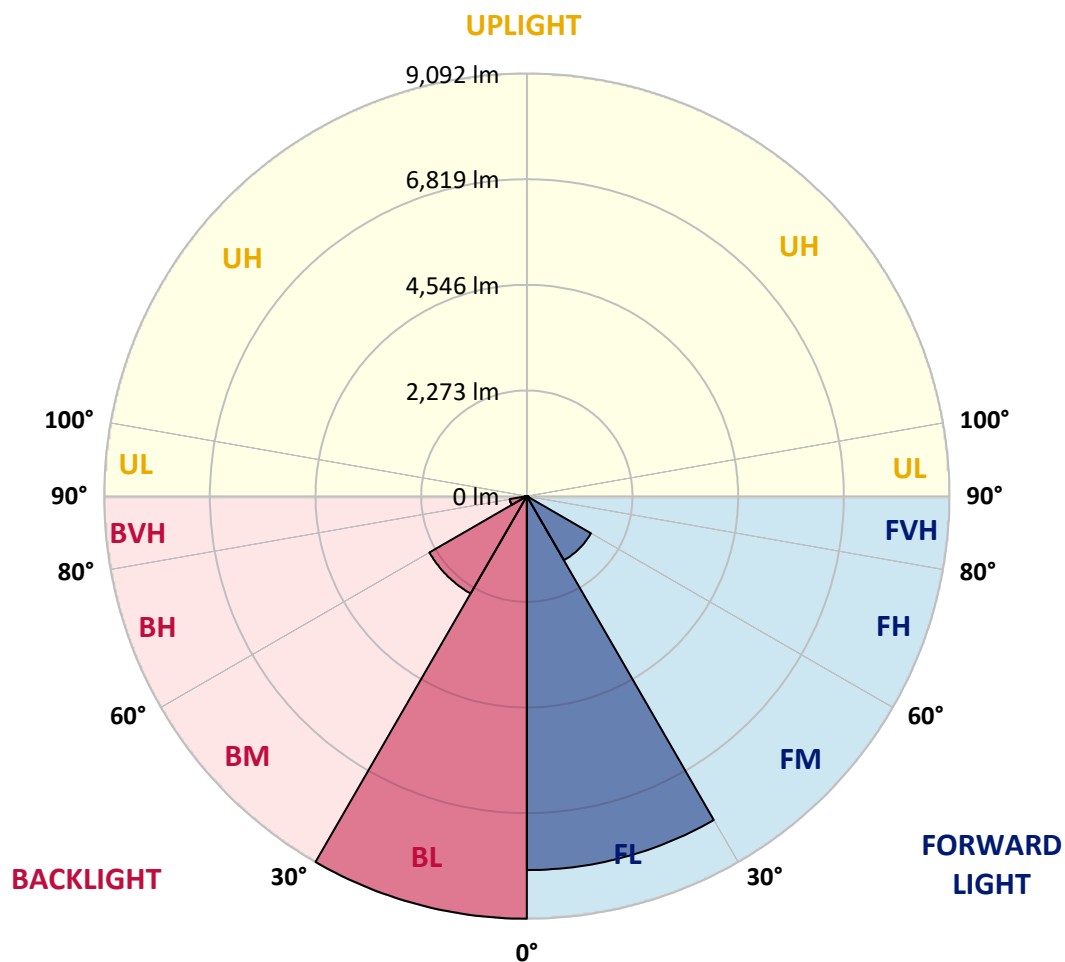
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8045.0	37.2			
FM	(30°-60°)	1594.4	7.4			
FH	(60°-80°)	38.6	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	9092.3	42.1	B5		
BM	(30°-60°)	2422.0	11.2	B2/2500		
BH	(60°-80°)	375.4	1.7	B1/500		G1/500
BVH	(80°-90°)	41.7	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°	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0
2.5°	29456.1	29555.7	29356.4	29488.5	29590.6	29834.9	29854.8	29939.6	29969.5	30191.3
5°	28897.8	28975.1	28813.1	28990.0	29134.6	29351.4	29518.4	29752.6	29882.2	30143.9
7.5°	28317.1	28334.5	28302.1	28489.1	28705.9	29005.0	29211.8	29518.4	29598.1	29972.0
10°	27614.3	27487.2	27549.5	27823.6	28147.6	28606.2	28748.3	29054.8	29196.9	29578.2
12.5°	26492.8	26557.6	26480.3	26829.2	27098.4	27619.3	27768.8	28077.8	28349.5	28686.0
15°	24912.7	24875.3	25032.3	25303.9	25595.5	26009.3	26251.0	26587.5	26794.3	27143.2
17.5°	21361.2	21488.3	22136.3	22816.7	23414.8	23898.3	24187.4	24466.5	24616.1	24994.9
20°	18447.7	18288.2	18375.5	18759.3	20461.5	21201.7	21505.7	21573.0	21635.3	21934.4
22.5°	15190.3	15138.0	15429.6	15860.8	16264.5	17971.7	18385.4	18228.4	18358.0	18639.6
25°	11280.0	11544.2	11803.4	12630.8	13154.2	13991.6	14776.6	14846.4	14893.8	15070.7
27.5°	9181.5	9089.3	9084.3	9316.1	10088.7	10786.5	11454.4	11609.0	11581.5	11751.0
30°	7217.6	7187.7	7083.0	7137.8	7060.6	7681.2	7995.2	8630.7	8595.8	8600.8
32.5°	5206.3	5094.2	5051.8	5134.1	5054.3	4997.0	5271.1	5988.9	5976.4	6026.3
35°	3150.2	3135.3	3170.2	3242.4	3082.9	3077.9	3135.3	3810.7	3892.9	3972.7
37.5°	1739.6	1724.6	1752.1	2018.7	1966.4	1919.0	1934.0	2290.4	2527.2	2587.0
40°	1146.4	1143.9	1163.9	1211.2	1301.0	1283.5	1291.0	1450.5	1674.8	1727.1
42.5°	767.6	770.1	782.6	837.4	849.9	939.6	924.6	962.0	1171.4	1216.2
45°	613.1	610.6	618.1	593.2	608.1	700.3	710.3	712.8	892.2	919.6
47.5°	483.5	483.5	491.0	458.6	451.1	508.4	560.8	568.2	712.8	750.2
50°	338.9	338.9	376.3	361.4	378.8	396.3	453.6	461.1	583.2	623.1
52.5°	249.2	254.2	259.2	261.7	319.0	316.5	366.4	401.3	441.1	510.9
55°	189.4	194.4	181.9	194.4	236.8	264.2	274.1	324.0	351.4	428.7
57.5°	124.6	137.1	127.1	149.5	159.5	204.4	219.3	266.7	284.1	351.4
60°	17.4	19.9	32.4	104.7	112.2	134.6	169.5	211.8	229.3	286.6
62.5°	2.5	2.5	7.5	17.4	74.8	89.7	127.1	147.0	169.5	214.3
65°	0.0	0.0	2.5	5.0	15.0	52.3	64.8	79.8	117.1	154.5
67.5°	0.0	0.0	2.5	5.0	7.5	17.4	27.4	52.3	67.3	107.2
70°	0.0	0.0	2.5	5.0	7.5	10.0	15.0	19.9	39.9	62.3
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.4	39.9
75°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	15.0	15.0	17.4
77.5°	0.0	0.0	2.5	5.0	10.0	15.0	17.4	15.0	12.5	12.5
80°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	15.0	10.0	7.5
82.5°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	17.4	10.0	7.5
85°	0.0	0.0	2.5	7.5	10.0	12.5	19.9	17.4	10.0	5.0
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.0	7.5	5.0	2.5
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°
30109.0	0°	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0	30109.0
30186.3	2.5°	30410.6	30522.7	30719.6	30774.5	30943.9	30749.5	30642.4	30652.3	30420.6
30111.5	5°	30410.6	30667.3	31011.2	31175.7	31300.3	31290.4	31263.0	31193.2	31023.7
29962.0	7.5°	30330.8	30749.5	31223.1	31442.4	31591.9	31579.5	31641.8	31529.6	31322.8
29695.3	10°	30074.1	30438.0	31021.2	31200.6	31442.4	31447.4	31370.1	31392.5	31023.7
28720.8	12.5°	29266.6	29550.8	30061.7	30266.0	30560.1	30607.5	30522.7	30490.3	30141.4
27123.3	15°	27704.0	27868.5	28381.9	28586.3	28877.9	28838.0	28922.7	28887.8	28581.3
24965.0	17.5°	25418.6	25470.9	26009.3	26181.2	26455.4	26562.5	26435.4	26597.4	26333.3
21986.7	20°	22141.3	22422.9	23028.5	23292.7	23452.2	23644.1	23477.1	23659.1	23350.0
18373.0	22.5°	18816.6	18983.6	19531.9	19913.2	20209.8	20247.1	20184.8	20311.9	19895.7
15187.9	25°	15185.4	15462.0	15895.7	16394.1	16685.7	16865.1	16703.1	16785.4	16718.1
11778.4	27.5°	11977.8	12224.6	12551.0	12922.4	13361.0	13595.3	13465.7	13605.3	13276.3
8782.7	30°	8790.2	8914.8	9283.7	9677.5	10158.5	10442.6	10455.0	10597.1	10402.7
6153.4	32.5°	6198.3	6307.9	6534.7	6796.4	7255.0	7571.5	7521.7	7541.6	7422.0
4010.1	35°	4030.0	4177.0	4339.0	4463.6	4740.3	5089.2	5061.8	5036.9	4954.6
2636.8	37.5°	2694.1	2751.5	2841.2	2953.3	3132.8	3352.1	3424.4	3334.6	3299.8
1779.5	40°	1821.8	1921.5	1981.3	2066.1	2150.8	2335.3	2385.1	2367.7	2332.8
1246.1	42.5°	1293.5	1370.7	1445.5	1527.8	1572.6	1687.3	1784.5	1757.0	1742.1
947.1	45°	982.0	1051.7	1139.0	1201.3	1246.1	1313.4	1405.6	1415.6	1393.2
760.1	47.5°	787.6	849.9	919.6	996.9	1049.2	1091.6	1171.4	1201.3	1186.3
640.5	50°	667.9	715.3	782.6	859.8	917.2	954.5	1024.3	1056.7	1046.8
535.8	52.5°	568.2	625.6	687.9	752.7	822.4	859.8	924.6	972.0	964.5
443.6	55°	471.0	545.8	610.6	675.4	755.2	792.5	849.9	912.2	899.7
376.3	57.5°	411.2	473.5	540.8	603.1	687.9	737.7	790.0	854.8	852.4
309.0	60°	343.9	406.2	481.0	533.3	623.1	692.8	740.2	807.5	812.5
234.3	62.5°	274.1	351.4	408.7	481.0	563.3	645.5	690.4	757.6	782.6
179.4	65°	204.4	289.1	353.9	426.2	503.4	595.7	635.5	702.8	727.7
129.6	67.5°	152.0	216.8	299.1	361.4	448.6	528.4	575.7	638.0	655.5
77.3	70°	114.6	167.0	249.2	304.1	393.8	458.6	505.9	553.3	575.7
52.3	72.5°	67.3	124.6	196.9	261.7	338.9	393.8	428.7	466.1	481.0
24.9	75°	47.4	94.7	154.5	216.8	274.1	319.0	351.4	383.8	398.8
12.5	77.5°	24.9	69.8	122.1	174.5	214.3	251.7	284.1	309.0	319.0
10.0	80°	15.0	49.8	99.7	137.1	164.5	196.9	229.3	246.7	244.2
7.5	82.5°	10.0	39.9	72.3	99.7	119.6	144.6	167.0	179.4	179.4
5.0	85°	7.5	27.4	49.8	77.3	79.8	99.7	104.7	117.1	119.6
5.0	87.5°	5.0	17.4	27.4	44.9	42.4	52.3	54.8	62.3	67.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30109.0
30233.6
31078.5
31370.1
30916.5
30061.7
28678.5
26268.5
23325.1
19838.4
16675.7
13361.0
10437.6
7489.3
4882.3
3292.3
2337.7
1729.6
1390.7
1178.8
1044.3
959.5
899.7
849.9
812.5
780.1
725.2
655.5
570.7
476.0
393.8
316.5
241.7
177.0
117.1
64.8
0.0

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