

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: P637558

Luminaire Tested: **IFLD-S-SA3E-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21189.5 lumens
Efficiency: N/A
Efficacy: 91.3 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): 232.1
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



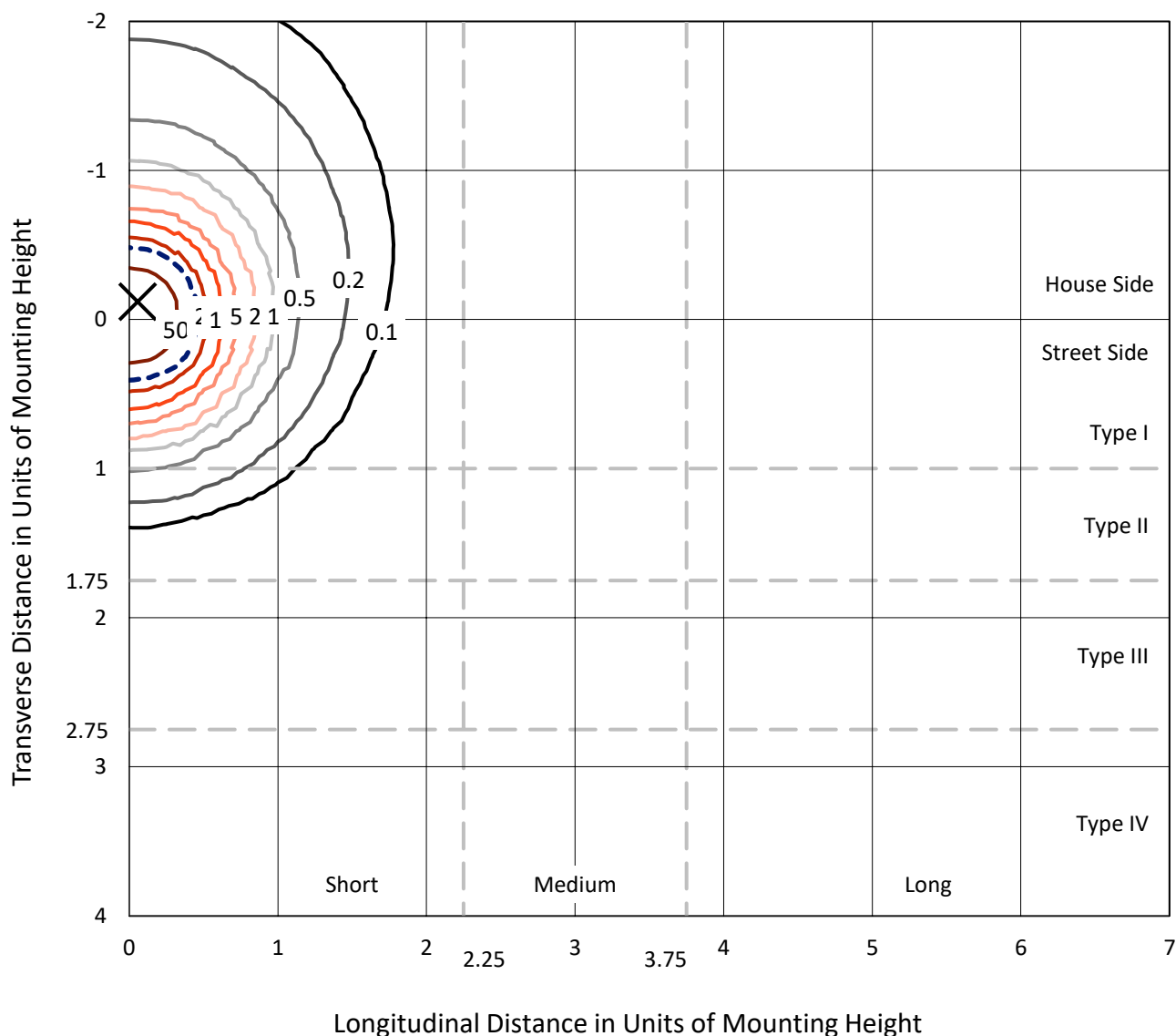
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



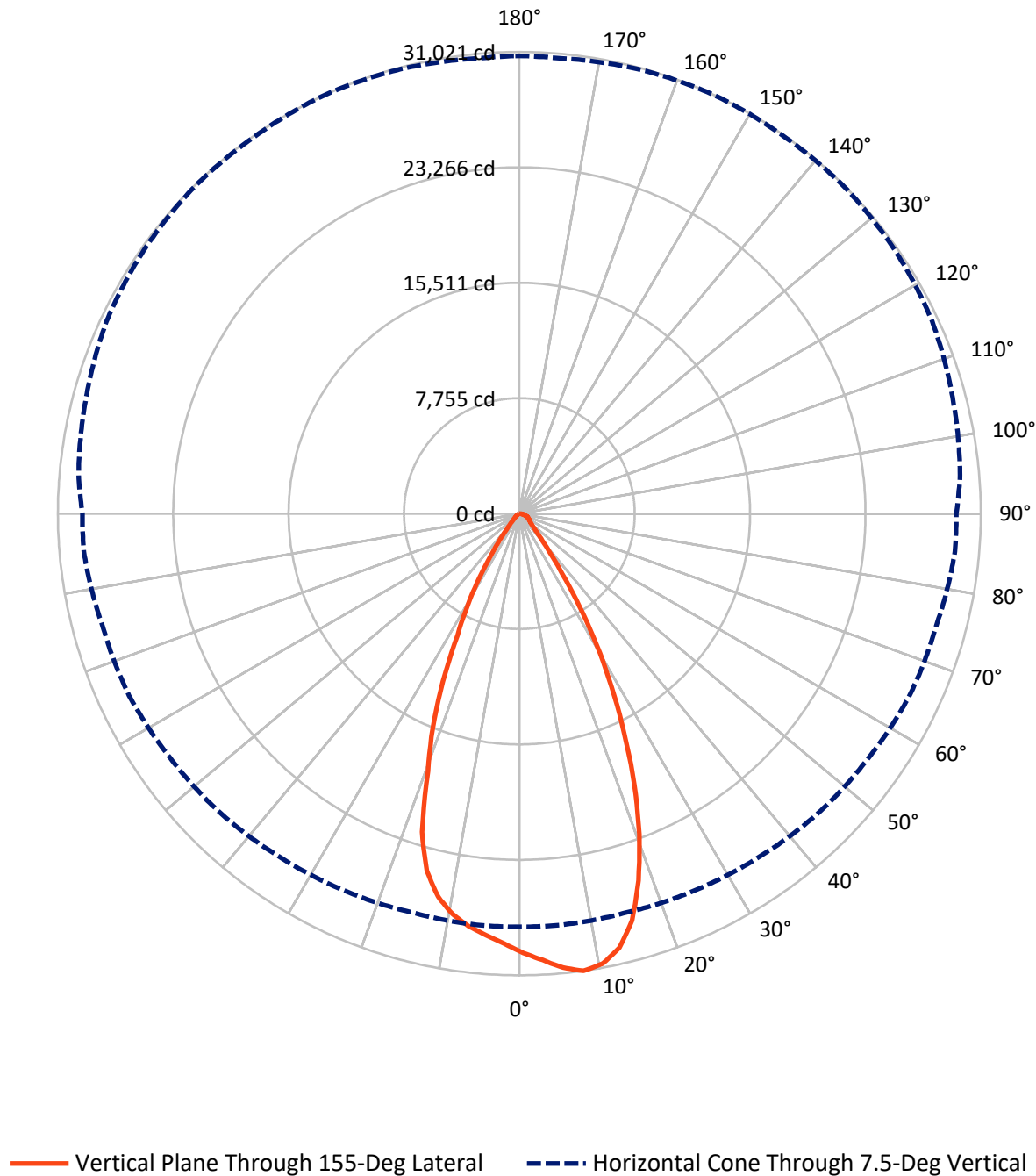
Based on 20 foot mounting height. Maximum calculated value = 75 fc

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	11697.4	0.0	11697.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9492.1	0.0	9492.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	21189.5	0.0	21189.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2814.8	13.3
10°-20°	7298.8	34.4
20°-30°	6687.7	31.6
30°-40°	2701.8	12.8
40°-50°	792.6	3.7
50°-60°	443.2	2.1
60°-70°	269.2	1.3
70°-80°	136.8	0.6
80°-90°	44.7	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°	21189.5	100.0
0°-180°	21189.5	100.0

Coefficient of Utilization



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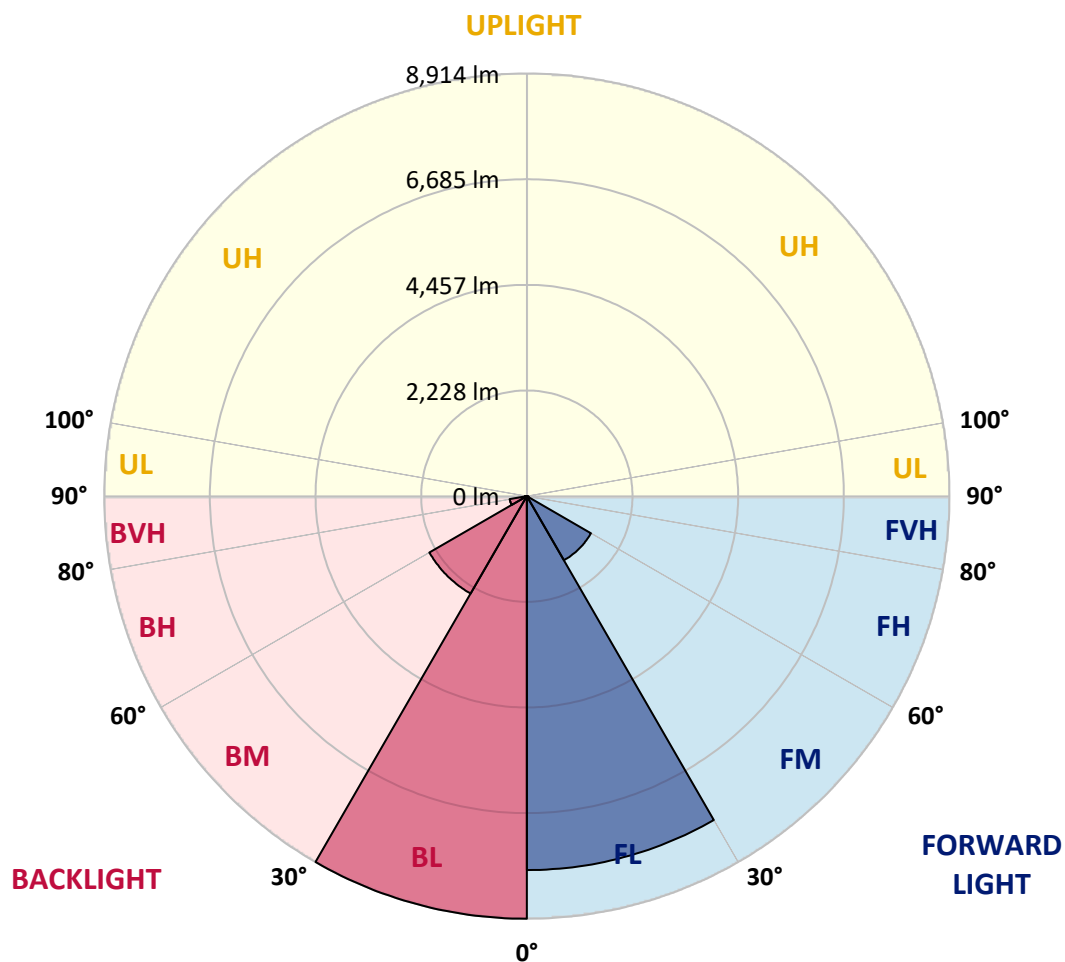
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7887.3	37.2			
FM	(30°-60°)	1563.1	7.4			
FH	(60°-80°)	37.9	0.2			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	8914.0	42.1	B5		
BM	(30°-60°)	2374.5	11.2	B2/2500		
BH	(60°-80°)	368.1	1.7	B1/500		G1/500
BVH	(80°-90°)	40.9	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°	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6
2.5°	28878.4	28976.2	28780.7	28910.2	29010.4	29249.8	29269.4	29352.4	29381.8	29599.2
5°	28331.1	28406.9	28248.0	28421.5	28563.2	28775.8	28939.5	29169.2	29296.2	29552.8
7.5°	27761.8	27778.9	27747.1	27930.4	28143.0	28436.2	28639.0	28939.5	29017.7	29384.2
10°	27072.8	26948.2	27009.2	27278.0	27595.6	28045.2	28184.5	28485.0	28624.3	28998.2
12.5°	25973.2	26036.8	25961.0	26303.1	26567.0	27077.7	27224.3	27527.2	27793.6	28123.4
15°	24424.1	24387.5	24541.4	24807.7	25093.6	25499.2	25736.2	26066.1	26268.9	26611.0
17.5°	20942.3	21066.9	21702.2	22369.2	22955.7	23429.7	23713.1	23986.8	24133.4	24504.8
20°	18086.0	17929.6	18015.1	18391.4	20060.2	20785.9	21084.0	21150.0	21211.1	21504.3
22.5°	14892.5	14841.2	15127.0	15549.7	15945.6	17619.3	18024.9	17871.0	17998.0	18274.1
25°	11058.8	11317.8	11571.9	12383.1	12896.2	13717.2	14486.9	14555.3	14601.7	14775.2
27.5°	9001.4	8911.0	8906.2	9133.4	9890.8	10575.0	11229.8	11381.3	11354.4	11520.6
30°	7076.1	7046.7	6944.1	6997.9	6922.1	7530.5	7838.4	8461.5	8427.3	8432.1
32.5°	5104.2	4994.3	4952.8	5033.4	4955.2	4899.0	5167.8	5871.5	5859.2	5908.1
35°	3088.4	3073.8	3108.0	3178.9	3022.5	3017.6	3073.8	3735.9	3816.6	3894.8
37.5°	1705.5	1690.8	1717.7	1979.1	1927.8	1881.4	1896.1	2245.5	2477.6	2536.2
40°	1124.0	1121.5	1141.1	1187.5	1275.4	1258.3	1265.7	1422.1	1642.0	1693.3
42.5°	752.6	755.0	767.2	821.0	833.2	921.2	906.5	943.1	1148.4	1192.4
45°	601.1	598.6	606.0	581.5	596.2	686.6	696.4	698.8	874.7	901.6
47.5°	474.0	474.0	481.3	449.6	442.3	498.5	549.8	557.1	698.8	735.5
50°	332.3	332.3	369.0	354.3	371.4	388.5	444.7	452.0	571.8	610.8
52.5°	244.3	249.2	254.1	256.6	312.8	310.3	359.2	393.4	432.5	500.9
55°	185.7	190.6	178.4	190.6	232.1	259.0	268.8	317.6	344.5	420.3
57.5°	122.2	134.4	124.6	146.6	156.4	200.4	215.0	261.4	278.5	344.5
60°	17.1	19.5	31.8	102.6	110.0	131.9	166.2	207.7	224.8	281.0
62.5°	2.4	2.4	7.3	17.1	73.3	88.0	124.6	144.2	166.2	210.1
65°	0.0	0.0	2.4	4.9	14.7	51.3	63.5	78.2	114.8	151.5
67.5°	0.0	0.0	2.4	4.9	7.3	17.1	26.9	51.3	66.0	105.1
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.5	39.1	61.1
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	17.1	39.1
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	12.2	12.2
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	14.7	9.8	7.3
82.5°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	17.1	9.8	7.3
85°	0.0	0.0	2.4	7.3	9.8	12.2	19.5	17.1	9.8	4.9
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	9.8	7.3	4.9	2.4
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°
29518.6	0°	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6	29518.6
29594.3	2.5°	29814.2	29924.2	30117.2	30171.0	30337.1	30146.5	30041.5	30051.3	29824.0
29521.0	5°	29814.2	30065.9	30403.1	30564.4	30686.5	30676.8	30649.9	30581.5	30415.3
29374.4	7.5°	29736.1	30146.5	30610.8	30825.8	30972.4	30960.2	31021.3	30911.3	30708.5
29113.0	10°	29484.4	29841.1	30412.9	30588.8	30825.8	30830.7	30755.0	30776.9	30415.3
28157.6	12.5°	28692.7	28971.3	29472.2	29672.5	29960.9	30007.3	29924.2	29892.4	29550.4
26591.4	15°	27160.7	27322.0	27825.3	28025.7	28311.6	28272.5	28355.5	28321.3	28020.8
24475.4	17.5°	24920.1	24971.4	25499.2	25667.8	25936.6	26041.7	25917.0	26075.9	25816.9
21555.6	20°	21707.1	21983.2	22576.9	22835.9	22992.3	23180.4	23016.7	23195.1	22892.1
18012.7	22.5°	18447.6	18611.3	19148.8	19522.7	19813.5	19850.1	19789.0	19913.6	19505.6
14890.0	25°	14887.6	15158.8	15583.9	16072.6	16358.5	16534.4	16375.6	16456.2	16390.3
11547.5	27.5°	11742.9	11984.8	12304.9	12669.0	13099.0	13328.7	13201.6	13338.5	13015.9
8610.5	30°	8617.8	8740.0	9101.6	9487.7	9959.3	10237.8	10250.0	10389.3	10198.7
6032.7	32.5°	6076.7	6184.2	6406.6	6663.1	7112.7	7423.0	7374.2	7393.7	7276.4
3931.4	35°	3951.0	4095.1	4253.9	4376.1	4647.3	4989.4	4962.5	4938.1	4857.5
2585.1	37.5°	2641.3	2697.5	2785.5	2895.4	3071.3	3286.4	3357.2	3269.3	3235.0
1744.6	40°	1786.1	1883.9	1942.5	2025.6	2108.6	2289.5	2338.3	2321.2	2287.0
1221.7	42.5°	1268.1	1343.9	1417.2	1497.8	1541.8	1654.2	1749.5	1722.6	1707.9
928.5	45°	962.7	1031.1	1116.6	1177.7	1221.7	1287.7	1378.1	1387.8	1365.9
745.2	47.5°	772.1	833.2	901.6	977.4	1028.7	1070.2	1148.4	1177.7	1163.1
628.0	50°	654.8	701.3	767.2	843.0	899.2	935.8	1004.2	1036.0	1026.2
525.3	52.5°	557.1	613.3	674.4	737.9	806.3	843.0	906.5	952.9	945.6
434.9	55°	461.8	535.1	598.6	662.2	740.3	777.0	833.2	894.3	882.1
369.0	57.5°	403.2	464.2	530.2	591.3	674.4	723.2	774.6	838.1	835.6
303.0	60°	337.2	398.3	471.6	522.9	610.8	679.3	725.7	791.7	796.5
229.7	62.5°	268.8	344.5	400.7	471.6	552.2	632.8	676.8	742.8	767.2
175.9	65°	200.4	283.4	347.0	417.8	493.6	584.0	623.1	689.0	713.5
127.1	67.5°	149.0	212.6	293.2	354.3	439.8	518.0	564.4	625.5	642.6
75.7	70°	112.4	163.7	244.3	298.1	386.1	449.6	496.0	542.4	564.4
51.3	72.5°	66.0	122.2	193.0	256.6	332.3	386.1	420.3	456.9	471.6
24.4	75°	46.4	92.8	151.5	212.6	268.8	312.8	344.5	376.3	390.9
12.2	77.5°	24.4	68.4	119.7	171.0	210.1	246.8	278.5	303.0	312.8
9.8	80°	14.7	48.9	97.7	134.4	161.3	193.0	224.8	241.9	239.5
7.3	82.5°	9.8	39.1	70.9	97.7	117.3	141.7	163.7	175.9	175.9
4.9	85°	7.3	26.9	48.9	75.7	78.2	97.7	102.6	114.8	117.3
4.9	87.5°	4.9	17.1	26.9	44.0	41.5	51.3	53.8	61.1	66.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
29518.6
29640.8
30469.1
30755.0
30310.3
29472.2
28116.1
25753.3
22867.7
19449.4
16348.7
13099.0
10232.9
7342.4
4786.6
3227.7
2291.9
1695.7
1363.4
1155.7
1023.8
940.7
882.1
833.2
796.5
764.8
711.0
642.6
559.5
466.7
386.1
310.3
237.0
173.5
114.8
63.5
0.0

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