

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: P637564

Luminaire Tested: **IFLD-M-SA4A-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637564
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14507.4 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 128.6
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



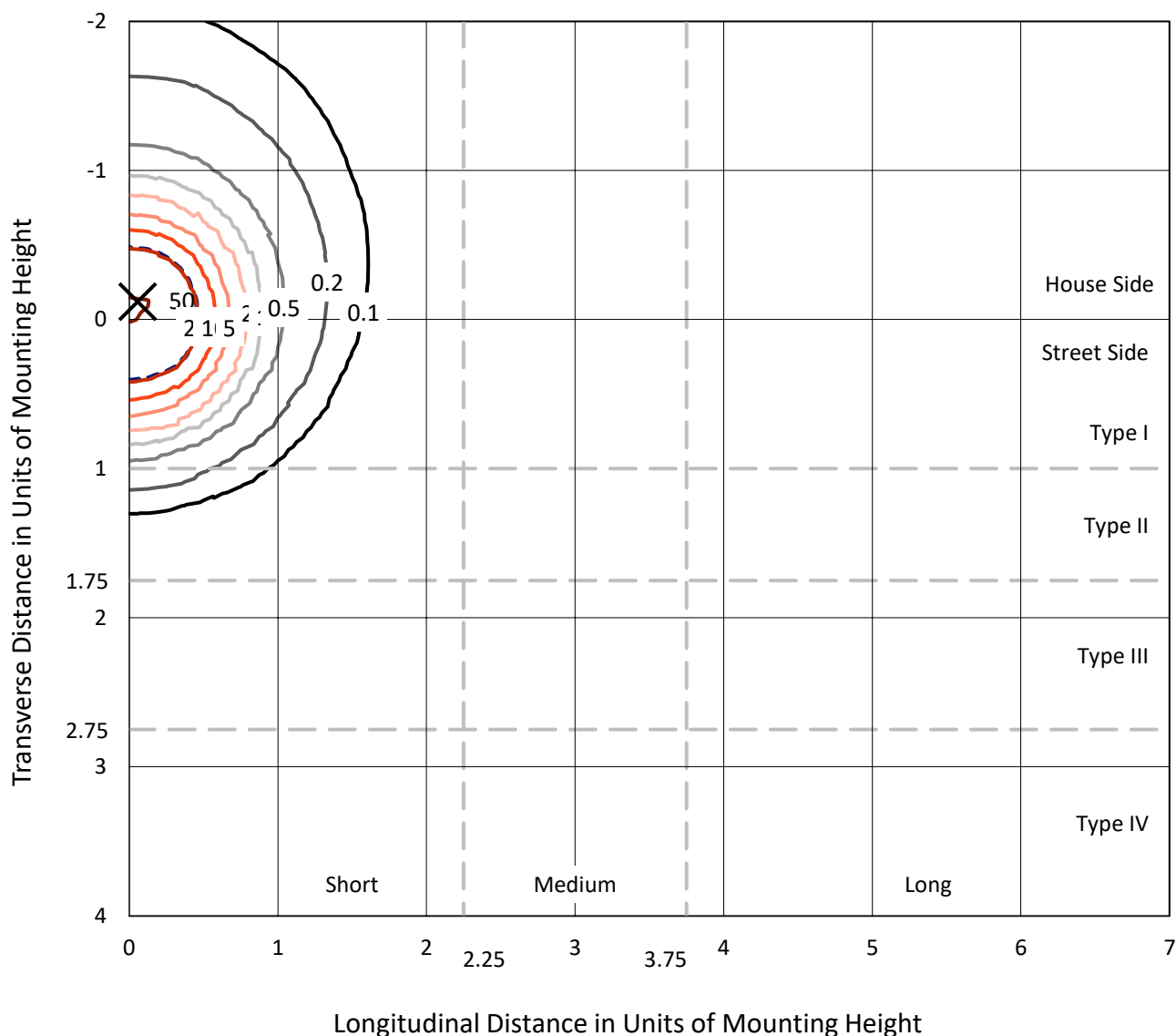
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

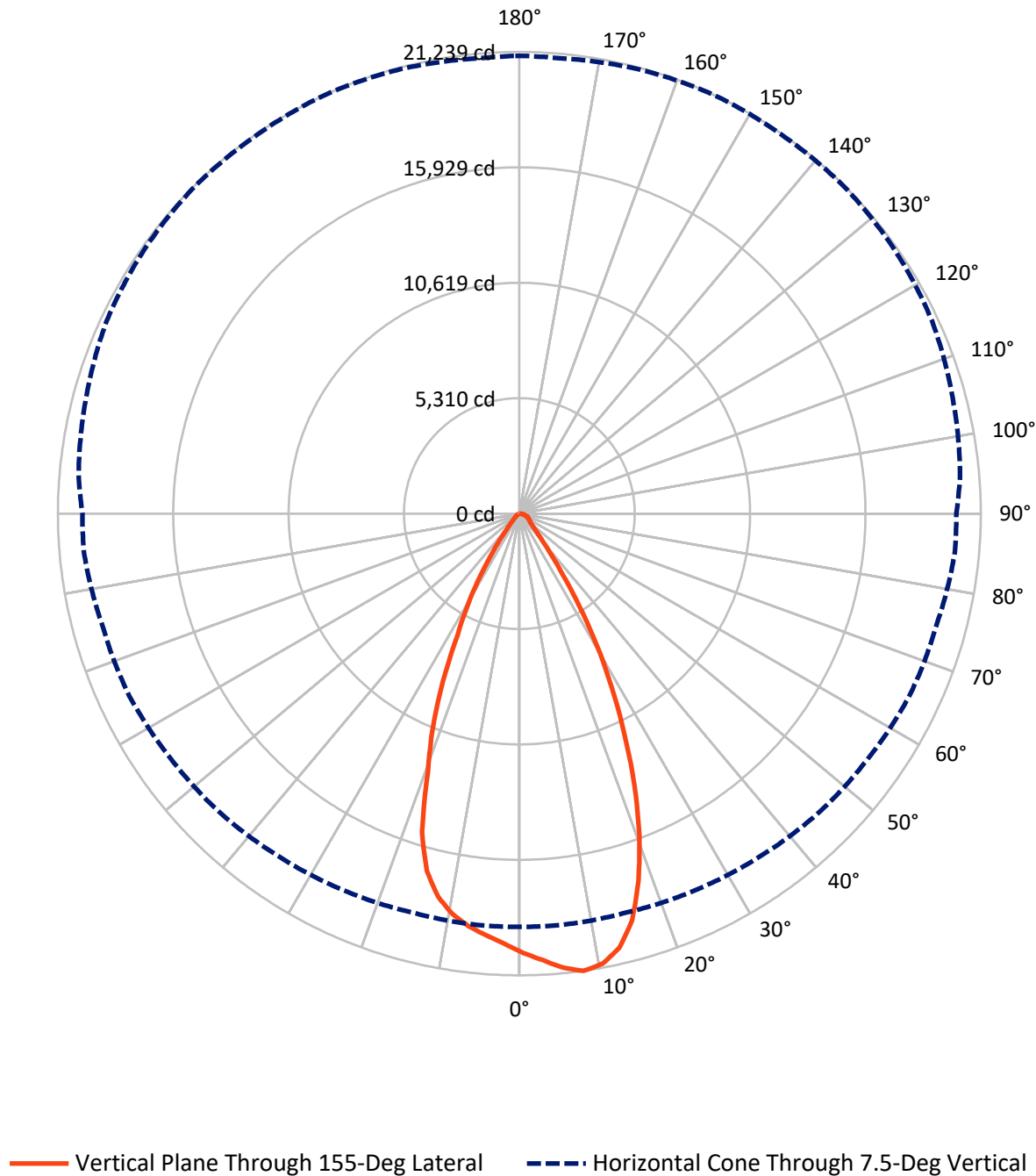


Based on 20 foot mounting height. Maximum calculated value = 51.4 fc

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	8008.6	0.0	8008.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6498.8	0.0	6498.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	14507.4	0.0	14507.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1927.2	13.3
10°-20°	4997.1	34.4
20°-30°	4578.8	31.6
30°-40°	1849.8	12.8
40°-50°	542.7	3.7
50°-60°	303.4	2.1
60°-70°	184.3	1.3
70°-80°	93.6	0.6
80°-90°	30.6	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°	14507.4	100.0
0°-180°	14507.4	100.0

Coefficient of Utilization



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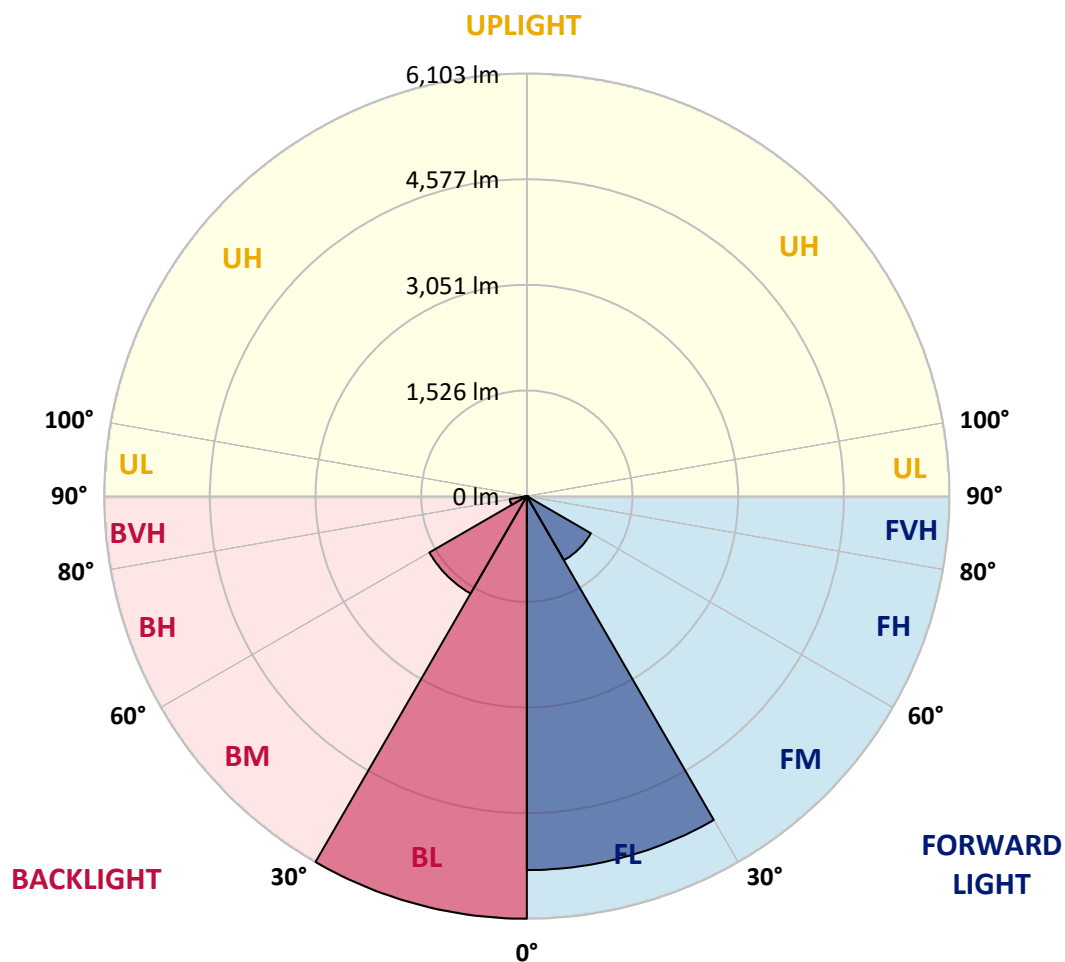
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5400.0	37.2			
FM	(30°-60°)	1070.2	7.4			
FH	(60°-80°)	25.9	0.2			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	6103.0	42.1	B5		
BM	(30°-60°)	1625.7	11.2	B2/2500		
BH	(60°-80°)	252.0	1.7	B1/500		G1/500
BVH	(80°-90°)	28.0	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°	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0
2.5°	19771.7	19838.6	19704.8	19793.4	19862.0	20026.0	20039.3	20096.2	20116.3	20265.2
5°	19397.0	19448.8	19340.1	19458.9	19555.9	19701.4	19813.5	19970.8	20057.7	20233.4
7.5°	19007.2	19018.9	18997.1	19122.6	19268.2	19468.9	19607.7	19813.5	19867.0	20118.0
10°	18535.4	18450.1	18491.9	18676.0	18893.4	19201.2	19296.6	19502.4	19597.7	19853.7
12.5°	17782.6	17826.1	17774.3	18008.5	18189.1	18538.8	18639.2	18846.6	19028.9	19254.8
15°	16722.0	16696.9	16802.3	16984.7	17180.4	17458.1	17620.4	17846.2	17985.1	18219.3
17.5°	14338.2	14423.5	14858.5	15315.2	15716.6	16041.2	16235.2	16422.6	16523.0	16777.2
20°	12382.6	12275.5	12334.1	12591.7	13734.3	14231.1	14435.2	14480.4	14522.2	14723.0
22.5°	10196.2	10161.0	10356.8	10646.2	10917.2	12063.1	12340.8	12235.4	12322.4	12511.4
25°	7571.4	7748.7	7922.7	8478.1	8829.4	9391.5	9918.5	9965.3	9997.1	10115.9
27.5°	6162.9	6101.0	6097.6	6253.2	6771.8	7240.2	7688.5	7792.2	7773.8	7887.6
30°	4844.6	4824.6	4754.3	4791.1	4739.2	5155.8	5366.6	5793.2	5769.7	5773.1
32.5°	3494.6	3419.4	3390.9	3446.1	3392.6	3354.1	3538.1	4019.9	4011.5	4045.0
35°	2114.5	2104.5	2127.9	2176.4	2069.3	2066.0	2104.5	2557.8	2613.0	2666.6
37.5°	1167.7	1157.6	1176.0	1355.0	1319.9	1288.1	1298.1	1537.4	1696.3	1736.4
40°	769.5	767.8	781.2	813.0	873.2	861.5	866.5	973.6	1124.2	1159.3
42.5°	515.2	516.9	525.3	562.1	570.4	630.7	620.6	645.7	786.3	816.4
45°	411.5	409.9	414.9	398.1	408.2	470.1	476.8	478.4	598.9	617.3
47.5°	324.5	324.5	329.6	307.8	302.8	341.3	376.4	381.4	478.4	503.5
50°	227.5	227.5	252.6	242.6	254.3	266.0	304.5	309.5	391.5	418.2
52.5°	167.3	170.6	174.0	175.7	214.1	212.5	245.9	269.3	296.1	342.9
55°	127.1	130.5	122.1	130.5	158.9	177.3	184.0	217.5	235.9	287.7
57.5°	83.6	92.0	85.3	100.4	107.1	137.2	147.2	179.0	190.7	235.9
60°	11.7	13.4	21.7	70.3	75.3	90.3	113.8	142.2	153.9	192.4
62.5°	1.7	1.7	5.0	11.7	50.2	60.2	85.3	98.7	113.8	143.9
65°	0.0	0.0	1.7	3.3	10.0	35.1	43.5	53.5	78.6	103.7
67.5°	0.0	0.0	1.7	3.3	5.0	11.7	18.4	35.1	45.2	71.9
70°	0.0	0.0	1.7	3.3	5.0	6.7	10.0	13.4	26.8	41.8
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	10.0	11.7	26.8
75°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	10.0	10.0	11.7
77.5°	0.0	0.0	1.7	3.3	6.7	10.0	11.7	10.0	8.4	8.4
80°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	10.0	6.7	5.0
82.5°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	11.7	6.7	5.0
85°	0.0	0.0	1.7	5.0	6.7	8.4	13.4	11.7	6.7	3.3
87.5°	0.0	0.0	0.0	1.7	1.7	3.3	6.7	5.0	3.3	1.7
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°
20210.0	0°	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0	20210.0
20261.8	2.5°	20412.4	20487.7	20619.8	20656.6	20770.4	20639.9	20568.0	20574.7	20419.1
20211.7	5°	20412.4	20584.7	20815.6	20926.0	21009.6	21002.9	20984.5	20937.7	20823.9
20111.3	7.5°	20358.9	20639.9	20957.8	21105.0	21205.3	21197.0	21238.8	21163.5	21024.7
19932.3	10°	20186.6	20430.8	20822.3	20942.7	21105.0	21108.3	21056.5	21071.5	20823.9
19278.2	12.5°	19644.5	19835.3	20178.2	20315.4	20512.8	20544.6	20487.7	20465.9	20231.7
18205.9	15°	18595.7	18706.1	19050.7	19187.9	19383.6	19356.8	19413.7	19390.3	19184.5
16757.2	17.5°	17061.6	17096.8	17458.1	17573.5	17757.5	17829.5	17744.2	17852.9	17675.6
14758.1	20°	14861.8	15050.8	15457.3	15634.7	15741.7	15870.5	15758.5	15880.6	15673.1
12332.4	22.5°	12630.2	12742.3	13110.3	13366.3	13565.3	13590.4	13548.6	13633.9	13354.5
10194.5	25°	10192.8	10378.5	10669.6	11004.2	11199.9	11320.3	11211.6	11266.8	11221.6
7906.0	27.5°	8039.8	8205.4	8424.6	8673.8	8968.3	9125.5	9038.5	9132.2	8911.4
5895.2	30°	5900.2	5983.9	6231.5	6495.8	6818.6	7009.3	7017.7	7113.1	6982.6
4130.3	32.5°	4160.4	4234.0	4386.3	4561.9	4869.7	5082.2	5048.7	5062.1	4981.8
2691.7	35°	2705.0	2803.7	2912.5	2996.1	3181.8	3416.0	3397.6	3380.9	3325.7
1769.9	37.5°	1808.4	1846.9	1907.1	1982.4	2102.8	2250.0	2298.5	2238.3	2214.9
1194.4	40°	1222.9	1289.8	1329.9	1386.8	1443.7	1567.5	1600.9	1589.2	1565.8
836.4	42.5°	868.2	920.1	970.3	1025.5	1055.6	1132.5	1197.8	1179.4	1169.3
635.7	45°	659.1	706.0	764.5	806.3	836.4	881.6	943.5	950.2	935.1
510.2	47.5°	528.6	570.4	617.3	669.1	704.3	732.7	786.3	806.3	796.3
429.9	50°	448.3	480.1	525.3	577.1	615.6	640.7	687.6	709.3	702.6
359.7	52.5°	381.4	419.9	461.7	505.2	552.0	577.1	620.6	652.4	647.4
297.8	55°	316.2	366.4	409.9	453.3	506.9	532.0	570.4	612.3	603.9
252.6	57.5°	276.0	317.8	363.0	404.8	461.7	495.2	530.3	573.8	572.1
207.4	60°	230.9	272.7	322.9	358.0	418.2	465.1	496.8	542.0	545.4
157.3	62.5°	184.0	235.9	274.4	322.9	378.1	433.3	463.4	508.6	525.3
120.4	65°	137.2	194.1	237.5	286.1	337.9	399.8	426.6	471.8	488.5
87.0	67.5°	102.0	145.5	200.7	242.6	301.1	354.6	386.4	428.3	440.0
51.9	70°	77.0	112.1	167.3	204.1	264.3	307.8	339.6	371.4	386.4
35.1	72.5°	45.2	83.6	132.2	175.7	227.5	264.3	287.7	312.8	322.9
16.7	75°	31.8	63.6	103.7	145.5	184.0	214.1	235.9	257.6	267.7
8.4	77.5°	16.7	46.8	82.0	117.1	143.9	169.0	190.7	207.4	214.1
6.7	80°	10.0	33.5	66.9	92.0	110.4	132.2	153.9	165.6	163.9
5.0	82.5°	6.7	26.8	48.5	66.9	80.3	97.0	112.1	120.4	120.4
3.3	85°	5.0	18.4	33.5	51.9	53.5	66.9	70.3	78.6	80.3
3.3	87.5°	3.3	11.7	18.4	30.1	28.4	35.1	36.8	41.8	45.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20210.0
20293.6
20860.7
21056.5
20752.0
20178.2
19249.7
17632.1
15656.4
13316.1
11193.2
8968.3
7006.0
5027.0
3277.2
2209.9
1569.2
1161.0
933.5
791.3
700.9
644.1
603.9
570.4
545.4
523.6
486.8
440.0
383.1
319.5
264.3
212.5
162.3
118.8
78.6
43.5
0.0

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