

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: P637576

Luminaire Tested: **IFLD-L-SA8C-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637576
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39800.2 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 420.3
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



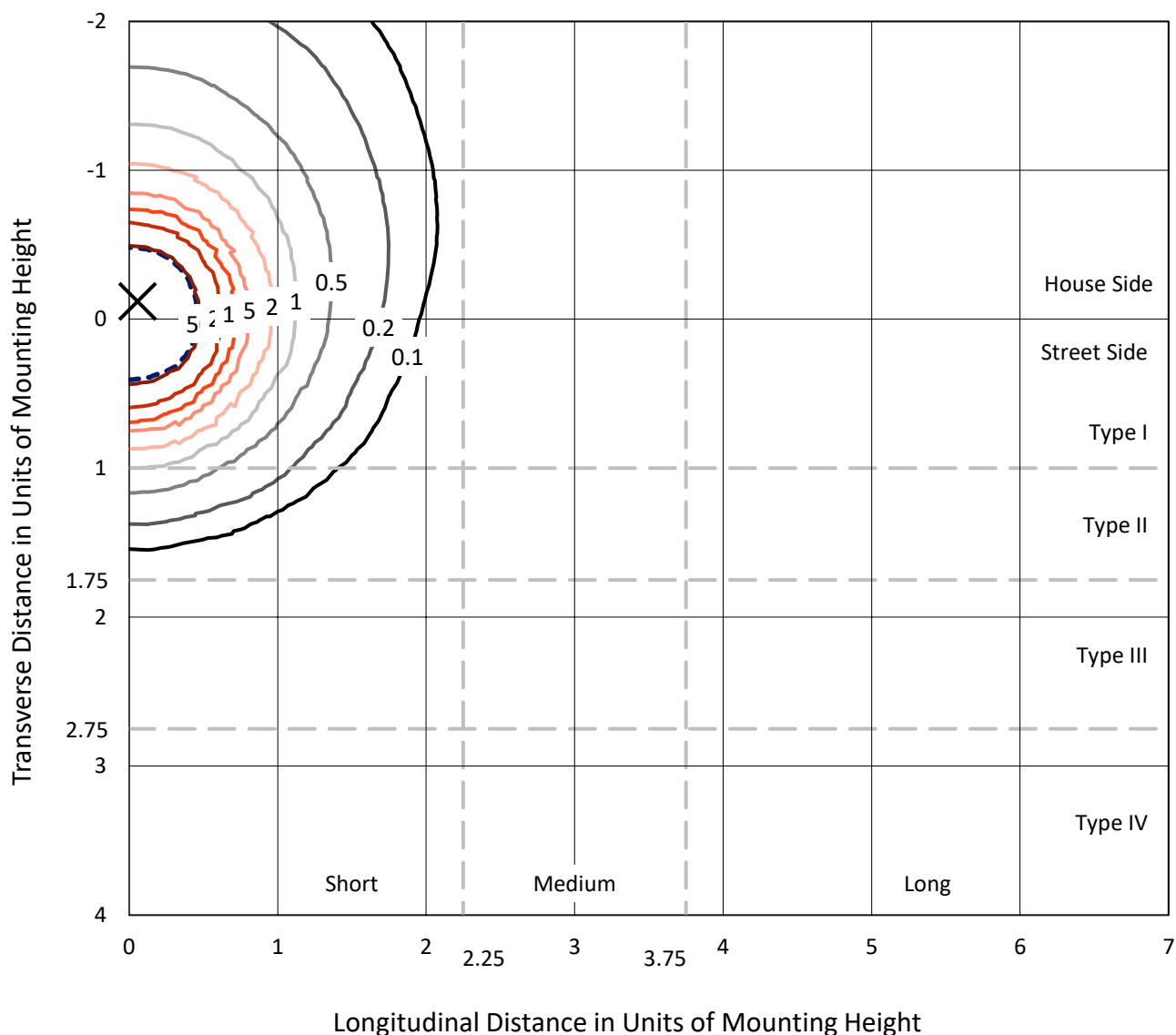
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



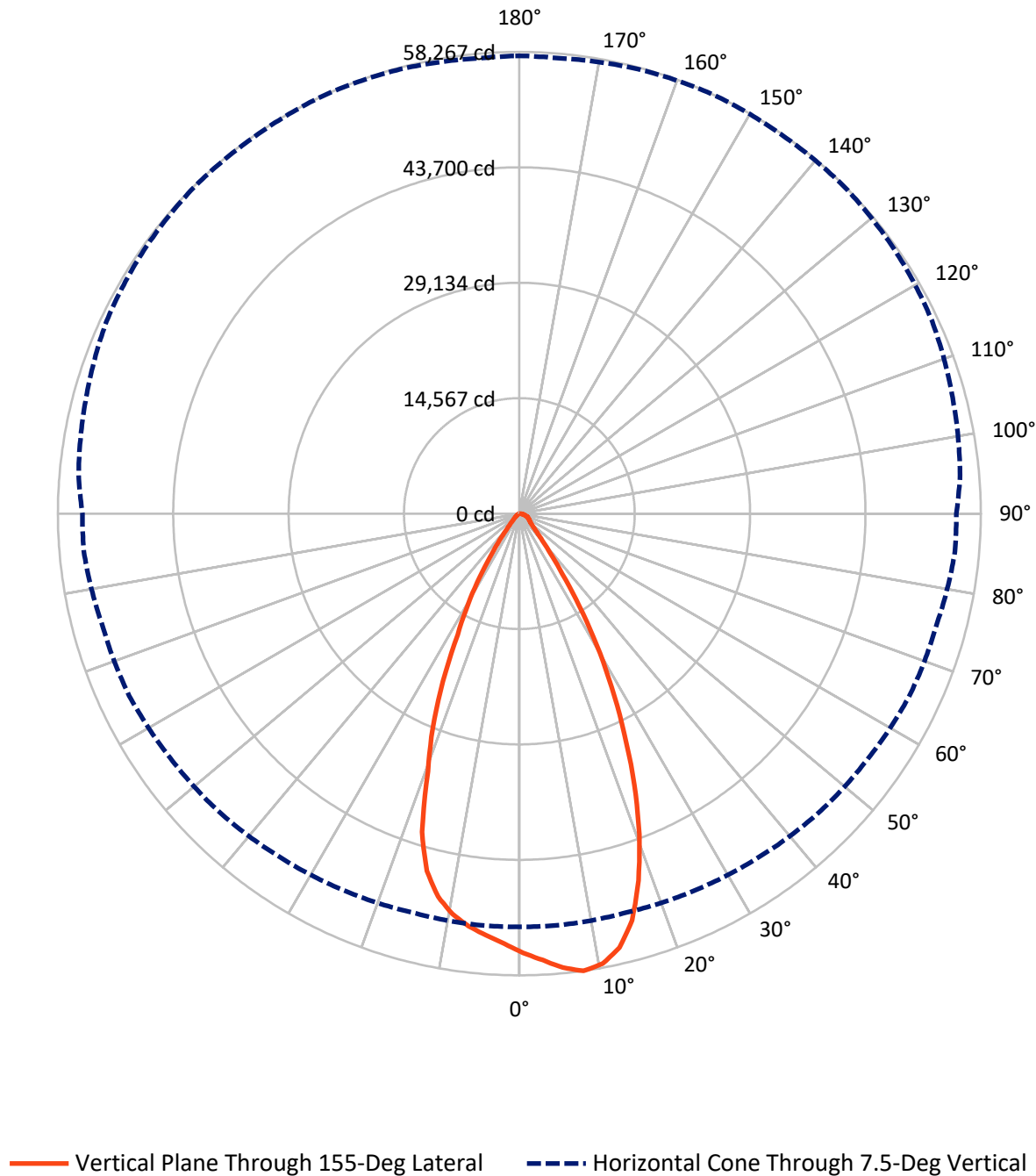
Based on 20 foot mounting height. Maximum calculated value = 140.9 fc

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	21971.2	0.0	21971.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17829.0	0.0	17829.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	39800.2	0.0	39800.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5287.0	13.3
10°-20°	13709.3	34.4
20°-30°	12561.5	31.6
30°-40°	5074.8	12.8
40°-50°	1488.7	3.7
50°-60°	832.4	2.1
60°-70°	505.6	1.3
70°-80°	256.9	0.6
80°-90°	84.0	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°	39800.2	100.0
0°-180°	39800.2	100.0

Coefficient of Utilization



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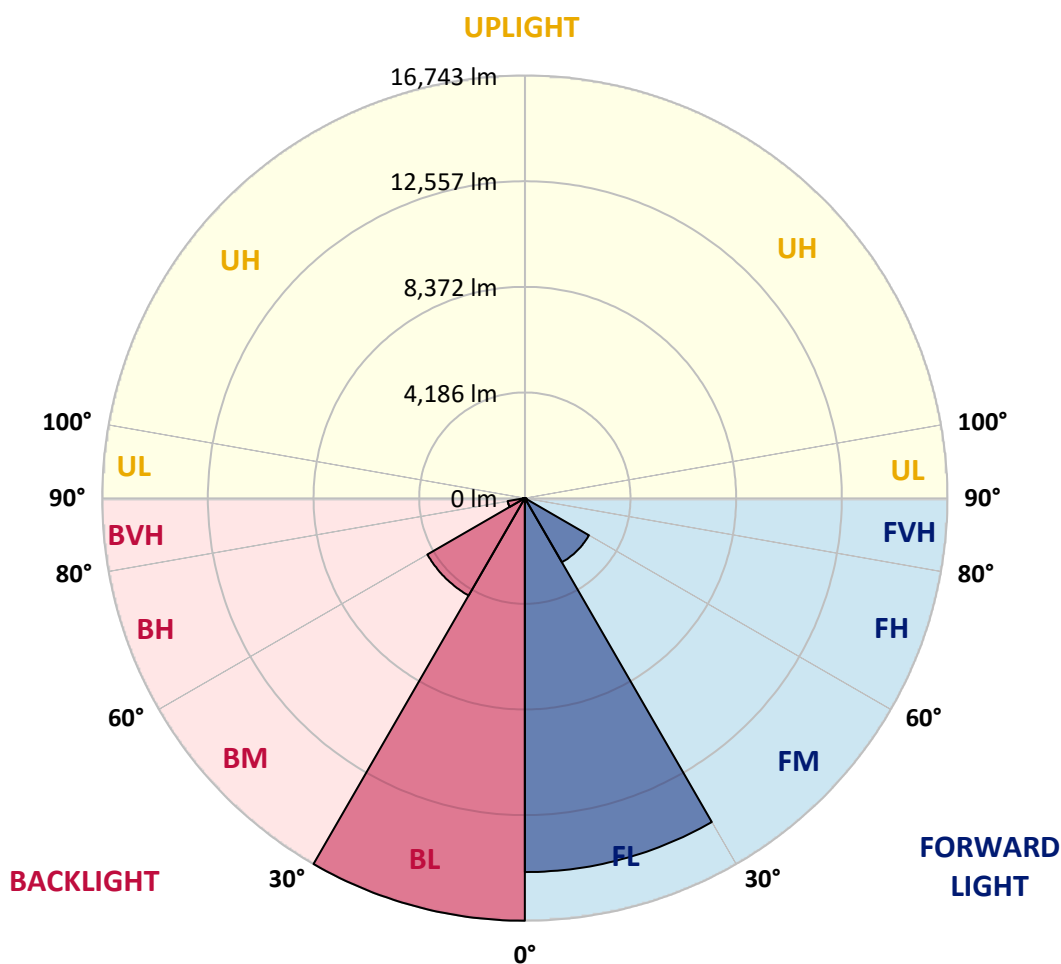
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14814.6	37.2			
FM	(30°-60°)	2936.0	7.4			
FH	(60°-80°)	71.1	0.2			G0/660
FVH	(80°-90°)	7.3	0.0			G0/10
BL	(0°-30°)	16743.1	42.1	B5		
BM	(30°-60°)	4460.0	11.2	B3/5000		
BH	(60°-80°)	691.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	76.7	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7
2.5°	54242.3	54425.9	54058.7	54301.9	54490.1	54939.9	54976.6	55132.6	55187.7	55596.2
5°	53214.3	53356.5	53058.2	53384.1	53650.3	54049.5	54357.0	54788.4	55027.1	55509.0
7.5°	52144.9	52177.1	52117.4	52461.6	52860.9	53411.6	53792.5	54357.0	54503.9	55192.3
10°	50850.7	50616.6	50731.4	51236.2	51832.8	52677.3	52938.9	53503.4	53765.0	54467.2
12.5°	48785.5	48904.8	48762.5	49405.0	49900.7	50859.9	51135.3	51704.3	52204.6	52824.2
15°	45875.8	45806.9	46096.1	46596.3	47133.3	47895.1	48340.3	48959.9	49340.8	49983.3
17.5°	39335.9	39569.9	40763.2	42016.1	43117.5	44007.9	44540.3	45054.3	45329.6	46027.2
20°	33970.8	33677.1	33837.8	34544.5	37679.1	39042.1	39602.1	39726.0	39840.7	40391.4
22.5°	27972.5	27876.1	28413.1	29207.0	29950.5	33094.3	33856.1	33567.0	33805.6	34324.2
25°	20771.7	21258.2	21735.5	23259.2	24222.9	25765.0	27210.6	27339.1	27426.3	27752.2
27.5°	16907.4	16737.6	16728.4	17155.2	18577.9	19863.0	21092.9	21377.5	21327.0	21639.1
30°	13290.9	13235.9	13043.1	13144.1	13001.8	14144.6	14722.8	15893.1	15828.9	15838.1
32.5°	9587.3	9380.8	9302.7	9454.2	9307.3	9201.8	9706.6	11028.4	11005.4	11097.2
35°	5801.0	5773.5	5837.7	5970.8	5677.1	5667.9	5773.5	7017.2	7168.7	7315.5
37.5°	3203.4	3175.9	3226.4	3717.4	3621.0	3533.8	3561.4	4217.7	4653.7	4763.8
40°	2111.1	2106.5	2143.3	2230.5	2395.7	2363.5	2377.3	2671.0	3084.1	3180.5
42.5°	1413.5	1418.1	1441.1	1542.0	1565.0	1730.2	1702.7	1771.5	2157.0	2239.6
45°	1129.0	1124.4	1138.2	1092.3	1119.8	1289.6	1308.0	1312.6	1643.0	1693.5
47.5°	890.3	890.3	904.1	844.5	830.7	936.2	1032.6	1046.4	1312.6	1381.4
50°	624.2	624.2	693.0	665.5	697.6	729.7	835.3	849.0	1073.9	1147.4
52.5°	458.9	468.1	477.3	481.9	587.4	582.9	674.6	738.9	812.3	940.8
55°	348.8	358.0	335.0	358.0	436.0	486.5	504.8	596.6	647.1	789.4
57.5°	229.5	252.4	234.1	275.4	293.7	376.3	403.9	491.1	523.2	647.1
60°	32.1	36.7	59.7	192.8	206.5	247.8	312.1	390.1	422.2	527.8
62.5°	4.6	4.6	13.8	32.1	137.7	165.2	234.1	270.8	312.1	394.7
65°	0.0	0.0	4.6	9.2	27.5	96.4	119.3	146.9	215.7	284.5
67.5°	0.0	0.0	4.6	9.2	13.8	32.1	50.5	96.4	123.9	197.3
70°	0.0	0.0	4.6	9.2	13.8	18.4	27.5	36.7	73.4	114.7
72.5°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	27.5	32.1	73.4
75°	0.0	0.0	4.6	9.2	13.8	22.9	27.5	27.5	27.5	32.1
77.5°	0.0	0.0	4.6	9.2	18.4	27.5	32.1	27.5	22.9	22.9
80°	0.0	0.0	4.6	13.8	22.9	32.1	36.7	27.5	18.4	13.8
82.5°	0.0	0.0	4.6	13.8	22.9	32.1	36.7	32.1	18.4	13.8
85°	0.0	0.0	4.6	13.8	18.4	22.9	36.7	32.1	18.4	9.2
87.5°	0.0	0.0	0.0	4.6	4.6	9.2	18.4	13.8	9.2	4.6
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°
55444.7	0°	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7	55444.7
55587.0	2.5°	56000.0	56206.6	56569.1	56670.1	56982.2	56624.2	56426.8	56445.2	56018.4
55449.3	5°	56000.0	56472.7	57106.1	57409.0	57638.5	57620.1	57569.6	57441.1	57129.0
55173.9	7.5°	55853.2	56624.2	57496.2	57900.1	58175.4	58152.5	58267.2	58060.7	57679.8
54682.9	10°	55380.5	56050.5	57124.4	57454.9	57900.1	57909.2	57767.0	57808.3	57129.0
52888.4	12.5°	53893.5	54416.7	55357.5	55733.8	56275.4	56362.6	56206.6	56146.9	55504.4
49946.6	15°	51015.9	51318.8	52264.2	52640.6	53177.5	53104.1	53260.2	53195.9	52631.4
45972.2	17.5°	46807.4	46903.8	47895.1	48211.8	48716.6	48914.0	48679.9	48978.2	48491.8
40487.8	20°	40772.4	41291.0	42406.2	42892.7	43186.4	43539.8	43232.3	43567.3	42998.2
33833.2	22.5°	34650.1	34957.6	35967.2	36669.4	37215.6	37284.4	37169.7	37403.7	36637.3
27967.9	25°	27963.3	28472.7	29271.3	30189.2	30726.1	31056.6	30758.3	30909.7	30785.8
21689.6	27.5°	22056.7	22511.1	23112.3	23796.1	24603.8	25035.3	24796.6	25053.6	24447.8
16173.1	30°	16186.9	16416.3	17095.6	17820.7	18706.5	19229.6	19252.6	19514.2	19156.2
11331.3	32.5°	11413.9	11615.8	12033.4	12515.3	13359.8	13942.6	13850.9	13887.6	13667.3
7384.4	35°	7421.1	7691.9	7990.2	8219.6	8729.1	9371.6	9321.1	9275.2	9123.8
4855.6	37.5°	4961.2	5066.7	5231.9	5438.5	5768.9	6172.8	6305.9	6140.6	6076.4
3276.8	40°	3354.9	3538.4	3648.6	3804.6	3960.7	4300.3	4392.1	4359.9	4295.7
2294.7	42.5°	2381.9	2524.2	2661.9	2813.3	2895.9	3107.0	3286.0	3235.5	3208.0
1744.0	45°	1808.2	1936.7	2097.4	2212.1	2294.7	2418.6	2588.4	2606.8	2565.5
1399.8	47.5°	1450.3	1565.0	1693.5	1835.8	1932.1	2010.2	2157.0	2212.1	2184.6
1179.5	50°	1230.0	1317.2	1441.1	1583.3	1688.9	1757.7	1886.2	1945.9	1927.6
986.7	52.5°	1046.4	1151.9	1266.7	1386.0	1514.5	1583.3	1702.7	1789.9	1776.1
816.9	55°	867.4	1005.1	1124.4	1243.7	1390.6	1459.4	1565.0	1679.7	1656.8
693.0	57.5°	757.3	872.0	995.9	1110.6	1266.7	1358.5	1454.8	1574.2	1569.6
569.1	60°	633.3	748.1	885.8	982.1	1147.4	1275.9	1363.1	1487.0	1496.1
431.4	62.5°	504.8	647.1	752.7	885.8	1037.2	1188.7	1271.3	1395.2	1441.1
330.4	65°	376.3	532.4	651.7	784.8	927.1	1096.9	1170.3	1294.2	1340.1
238.6	67.5°	280.0	399.3	550.7	665.5	826.1	973.0	1060.2	1174.9	1207.0
142.3	70°	211.1	307.5	458.9	559.9	725.1	844.5	931.7	1018.8	1060.2
96.4	72.5°	123.9	229.5	362.6	481.9	624.2	725.1	789.4	858.2	885.8
45.9	75°	87.2	174.4	284.5	399.3	504.8	587.4	647.1	706.8	734.3
22.9	77.5°	45.9	128.5	224.9	321.3	394.7	463.5	523.2	569.1	587.4
18.4	80°	27.5	91.8	183.6	252.4	302.9	362.6	422.2	454.4	449.8
13.8	82.5°	18.4	73.4	133.1	183.6	220.3	266.2	307.5	330.4	330.4
9.2	85°	13.8	50.5	91.8	142.3	146.9	183.6	192.8	215.7	220.3
9.2	87.5°	9.2	32.1	50.5	82.6	78.0	96.4	101.0	114.7	123.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
55444.7
55674.2
57230.0
57767.0
56931.7
55357.5
52810.4
48372.4
42952.3
36531.7
30707.8
24603.8
19220.5
13791.2
8990.7
6062.6
4304.9
3185.1
2560.9
2170.8
1923.0
1766.9
1656.8
1565.0
1496.1
1436.5
1335.5
1207.0
1051.0
876.6
725.1
582.9
445.2
325.8
215.7
119.3
0.0

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