

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: P636843

Luminaire Tested: **IFLD-M-SA4E-950-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636843
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-950-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20123 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

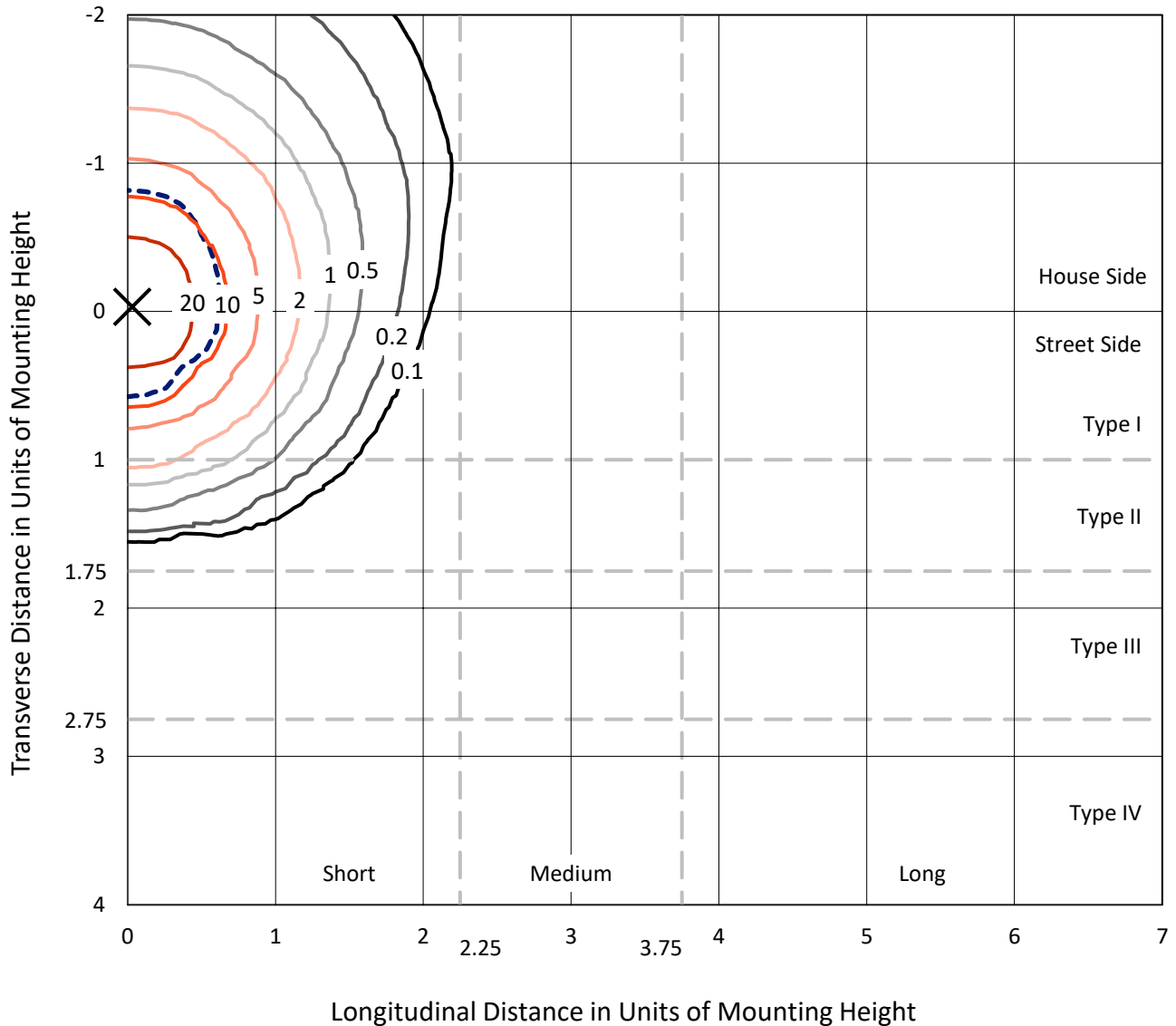
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

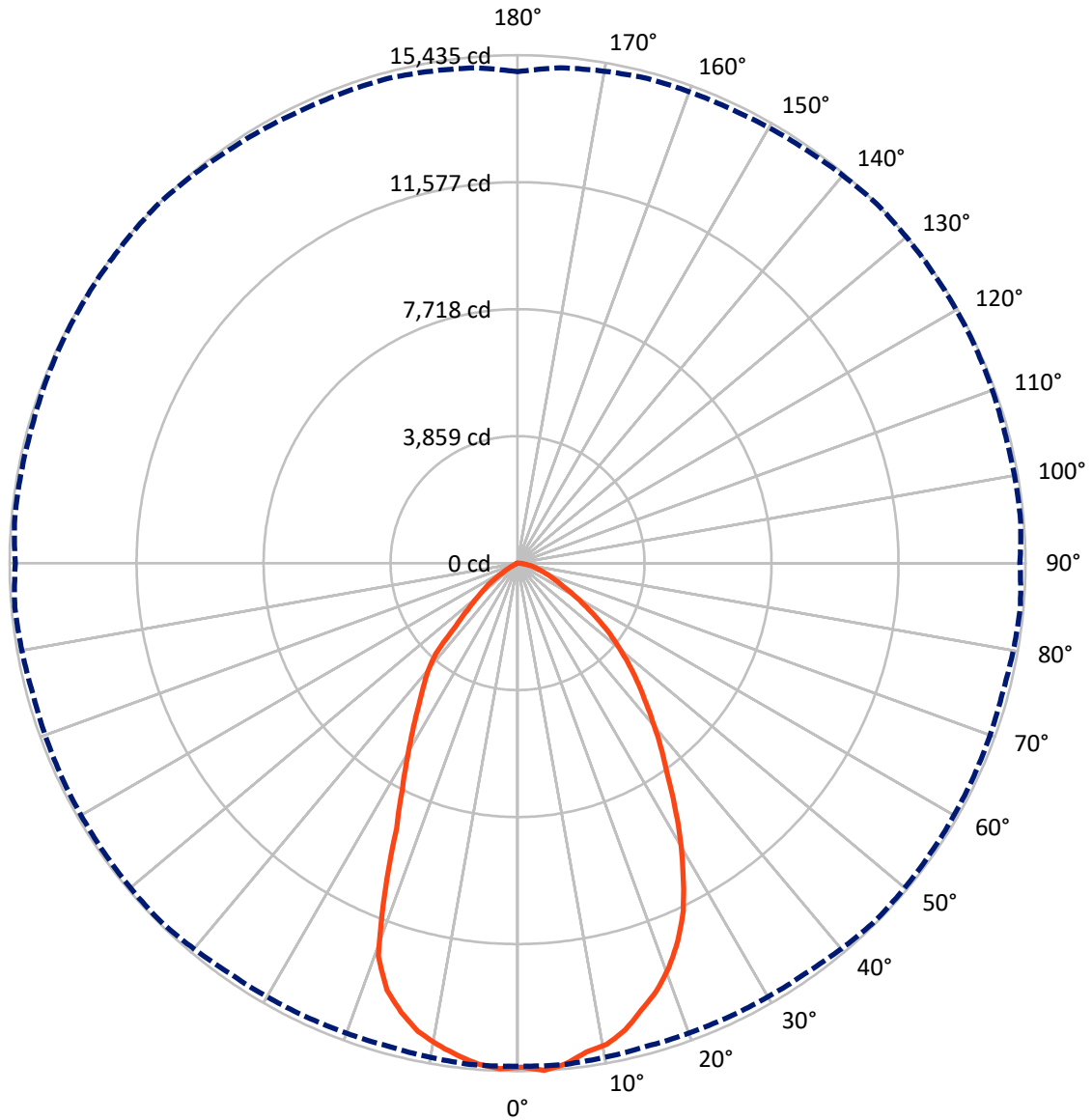
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11917.9	0.0	11917.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8205.1	0.0	8205.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	20123.0	0.0	20123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1436.2	7.1
10°-20°	3851.2	19.1
20°-30°	4696.7	23.3
30°-40°	4288.0	21.3
40°-50°	3098.9	15.4
50°-60°	1692.0	8.4
60°-70°	699.6	3.5
70°-80°	283.3	1.4
80°-90°	77.1	0.4
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°	20123.0	100.0
0°-180°	20123.0	100.0



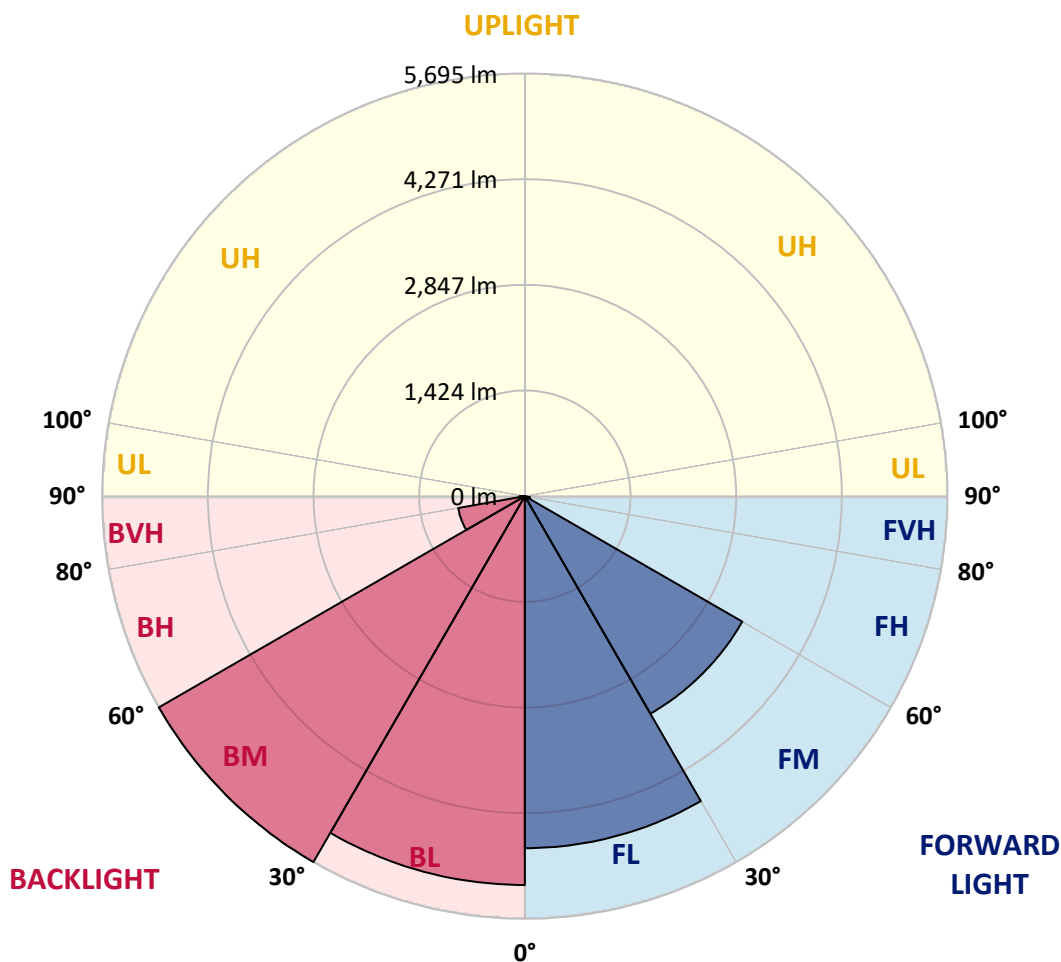
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4743.7	23.6			
FM (30°-60°)	3384.3	16.8			
FH (60°-80°)	70.9	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	5240.3	26.0	B5		
BM (30°-60°)	5694.6	28.3	B4/8500		
BH (60°-80°)	912.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	70.9	0.4			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°	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5
2.5°	15285.2	15305.0	15197.3	15208.7	15228.5	15373.0	15336.2	15302.2	15254.0	15336.2
5°	15265.3	15276.7	15163.3	15123.7	15140.7	15271.0	15152.0	15152.0	15140.7	15126.5
7.5°	15112.3	15118.0	15030.1	14959.3	15004.6	15064.1	14976.3	15018.8	14956.5	15004.6
10°	14882.8	14845.9	14741.1	14721.3	14772.3	14828.9	14769.4	14809.1	14752.4	14789.3
12.5°	14545.6	14488.9	14403.9	14378.4	14466.2	14542.7	14494.6	14471.9	14398.2	14488.9
15°	13244.9	13202.4	13395.1	13732.3	14035.5	14100.7	14049.7	14072.3	13919.3	13944.8
17.5°	10901.4	10822.0	11028.9	11828.0	12967.2	13567.9	13522.6	13375.2	13148.5	13199.5
20°	9906.7	9884.1	9861.4	10051.3	10847.5	12669.6	12732.0	12357.9	12034.9	11964.0
22.5°	9345.7	9337.2	9314.5	9357.0	9566.7	10737.0	11451.1	11105.4	10890.1	10870.2
25°	8832.8	8818.6	8750.6	8804.4	8804.4	8872.4	9787.7	9997.4	9807.6	9784.9
27.5°	8311.4	8285.8	8274.5	8300.0	8169.7	7710.6	7943.0	8965.9	8866.8	8872.4
30°	7747.4	7738.9	7707.8	7761.6	7359.2	6789.6	6642.3	8030.8	8050.6	8045.0
32.5°	6908.7	6945.5	7087.2	7146.7	6483.6	6013.2	5766.7	6948.3	7353.5	7345.0
35°	5018.5	5018.5	5480.4	6339.1	5681.6	5327.4	5194.2	5891.3	6664.9	6693.3
37.5°	4125.9	4140.1	4230.8	4621.8	4902.4	4777.7	4738.0	4959.0	5780.8	5826.2
40°	3712.2	3712.2	3712.2	3550.7	3542.2	4304.4	4281.8	4210.9	4993.0	5092.2
42.5°	3335.3	3343.8	3349.5	2941.4	2714.7	3720.7	3669.7	3562.0	4287.4	4403.6
45°	2947.1	2961.3	2978.3	2459.7	2360.5	2677.9	3105.8	2986.8	3590.3	3740.5
47.5°	1799.4	1822.1	2207.5	2085.6	2097.0	2065.8	2533.4	2513.5	2944.3	3156.8
50°	1215.7	1224.2	1261.0	1323.4	1799.4	1623.7	1793.8	2080.0	2235.8	2558.9
52.5°	1020.1	1034.3	943.6	858.6	1181.7	1269.5	1252.5	1544.4	1606.7	2006.3
55°	716.9	762.3	719.8	711.3	671.6	986.1	949.3	1187.3	1227.0	1524.6
57.5°	73.7	85.0	147.4	529.9	439.2	558.2	677.3	870.0	909.6	1125.0
60°	5.7	5.7	14.2	73.7	320.2	334.4	467.6	535.6	612.1	784.9
62.5°	0.0	2.8	5.7	11.3	51.0	178.5	235.2	280.5	368.4	507.2
65°	0.0	0.0	2.8	8.5	11.3	68.0	90.7	147.4	201.2	314.5
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	31.2	53.8	107.7	178.5
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	48.2	96.3
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	17.0	22.7	34.0	48.2
75°	0.0	0.0	2.8	2.8	8.5	17.0	14.2	17.0	22.7	31.2
77.5°	0.0	0.0	2.8	5.7	8.5	17.0	14.2	17.0	17.0	19.8
80°	0.0	0.0	2.8	5.7	11.3	19.8	17.0	17.0	14.2	14.2
82.5°	0.0	0.0	2.8	8.5	11.3	25.5	25.5	22.7	11.3	8.5
85°	0.0	0.0	5.7	11.3	17.0	28.3	28.3	22.7	8.5	5.7
87.5°	0.0	0.0	5.7	8.5	14.2	19.8	28.3	22.7	8.5	2.8
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°
15313.5	0°	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5	15313.5
15265.3	2.5°	15341.9	15324.8	15381.5	15404.2	15435.4	15316.3	15242.7	15245.5	15109.5
15092.5	5°	15183.2	15186.0	15259.7	15254.0	15285.2	15220.0	15191.7	15143.5	15024.5
14874.3	7.5°	14982.0	14956.5	15027.3	15081.1	15001.8	15047.1	14982.0	15004.6	14933.8
14681.6	10°	14826.1	14766.6	14831.8	14868.6	14871.5	14826.1	14763.8	14704.3	14678.8
14381.2	12.5°	14480.4	14403.9	14514.4	14565.4	14556.9	14469.1	14398.2	14412.4	14330.2
13854.1	15°	14004.3	14007.2	14086.5	14134.7	14089.3	14069.5	14075.2	14041.2	13970.3
13125.9	17.5°	13276.1	13318.6	13528.3	13644.4	13669.9	13630.3	13610.4	13570.8	13499.9
11964.0	20°	12063.2	12318.3	12692.3	13052.2	13123.0	13111.7	13040.9	13023.9	12984.2
10813.5	22.5°	10997.7	11187.6	11621.2	12182.2	12471.3	12499.6	12414.6	12389.1	12346.6
9784.9	25°	9895.4	10099.4	10490.5	11099.7	11697.7	11819.5	11805.3	11728.8	11683.5
8872.4	27.5°	8965.9	9170.0	9524.2	10073.9	10714.4	11105.4	11142.3	11020.4	11017.6
8059.1	30°	8127.2	8407.7	8676.9	9124.6	9745.2	10331.8	10394.1	10309.1	10317.6
7313.9	32.5°	7469.7	7702.1	7931.6	8232.0	8747.7	9430.7	9674.4	9595.0	9563.9
6693.3	35°	6798.1	6956.8	7192.0	7466.9	7818.3	8495.5	8917.8	8858.3	8827.1
5854.5	37.5°	6033.0	6305.1	6475.1	6784.0	7058.8	7597.2	8192.3	8183.8	8118.7
5140.4	40°	5248.1	5534.3	5792.2	6103.9	6316.4	6744.3	7404.6	7401.7	7410.2
4400.8	42.5°	4536.8	4800.4	5112.1	5452.1	5656.1	5967.9	6676.3	6716.0	6764.1
3791.5	45°	3893.6	4131.6	4420.6	4834.4	5080.9	5259.4	5888.5	6069.9	6067.0
3247.5	47.5°	3315.5	3539.3	3783.0	4185.4	4500.0	4661.5	5182.9	5440.8	5423.8
2663.7	50°	2782.7	2981.1	3236.1	3528.0	3950.2	4091.9	4480.1	4820.2	4794.7
2122.5	52.5°	2238.7	2513.5	2728.9	2995.3	3440.2	3579.0	3879.4	4210.9	4191.1
1592.6	55°	1745.6	2012.0	2272.7	2502.2	2876.2	3083.1	3298.5	3638.5	3632.9
1246.8	57.5°	1320.5	1612.4	1858.9	2077.1	2374.7	2629.7	2802.6	3111.4	3151.1
853.0	60°	977.6	1201.5	1467.9	1711.6	1946.8	2210.3	2326.5	2629.7	2646.7
583.7	62.5°	665.9	912.5	1173.2	1394.2	1569.9	1841.9	1946.8	2196.1	2227.3
374.1	65°	461.9	620.6	918.1	1076.8	1292.2	1524.6	1629.4	1827.8	1890.1
215.4	67.5°	306.0	442.1	716.9	861.5	1074.0	1232.7	1365.9	1527.4	1595.4
136.0	70°	167.2	325.9	512.9	680.1	864.3	1017.3	1147.7	1278.0	1337.5
62.3	72.5°	113.3	218.2	357.1	538.4	697.1	847.3	963.5	1059.8	1062.7
36.8	75°	56.7	147.4	272.0	416.6	544.1	691.4	796.3	853.0	784.9
22.7	77.5°	34.0	107.7	221.0	334.4	442.1	558.2	617.8	648.9	538.4
17.0	80°	19.8	76.5	172.9	266.4	306.0	410.9	467.6	476.1	359.9
11.3	82.5°	14.2	56.7	136.0	195.5	187.0	289.0	351.4	340.0	229.5
8.5	85°	8.5	39.7	85.0	121.9	113.3	189.9	204.0	209.7	133.2
5.7	87.5°	5.7	22.7	45.3	65.2	53.8	82.2	82.2	99.2	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15313.5
14933.8
14996.1
14814.8
14565.4
14259.4
13899.5
13468.8
12893.5
12335.3
11635.3
11011.9
10275.1
9566.7
8784.6
8172.5
7410.2
6738.6
6072.7
5429.4
4817.4
4233.6
3647.0
3134.1
2672.2
2233.0
1875.9
1586.9
1314.9
1037.1
733.9
518.6
337.2
212.5
121.9
56.7
0.0

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