

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: P638416

Luminaire Tested: **IFLD-L-SA8B-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29585.4 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

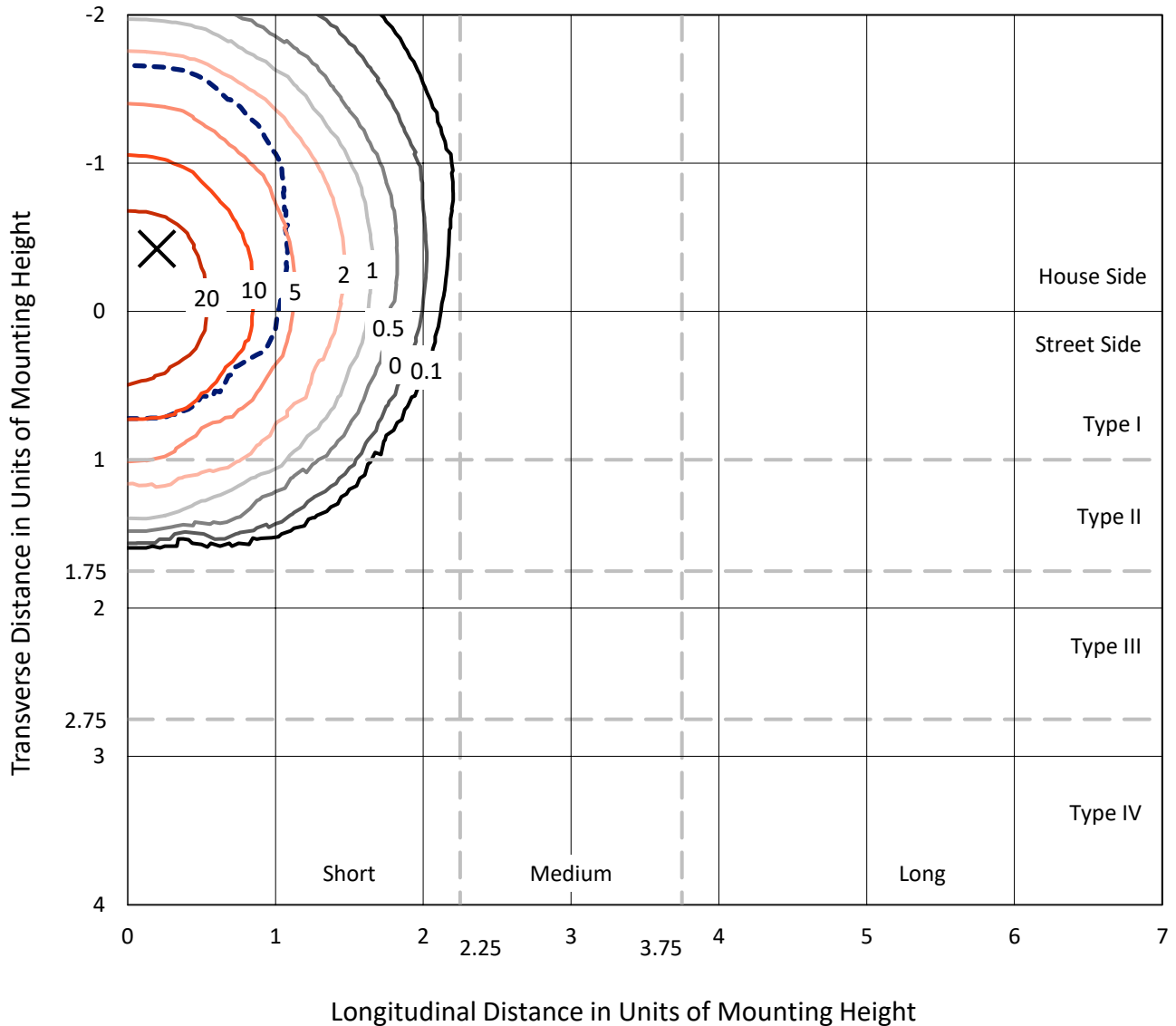
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

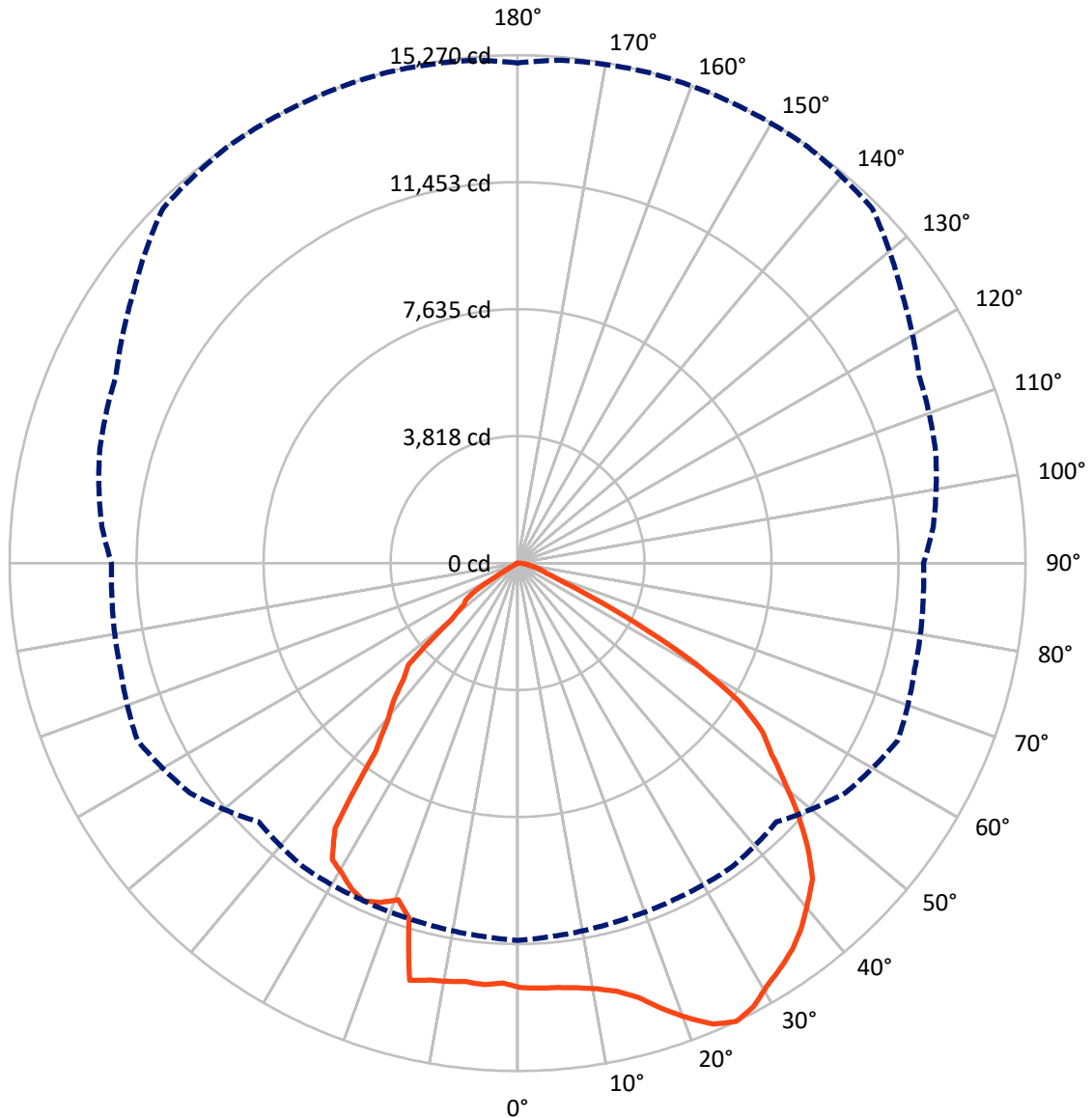
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18316.4	0.0	18316.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11269.0	0.0	11269.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	29585.4	0.0	29585.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.7	4.1
10°-20°	3739.5	12.6
20°-30°	5912.0	20.0
30°-40°	6678.1	22.6
40°-50°	6254.2	21.1
50°-60°	4311.8	14.6
60°-70°	1158.4	3.9
70°-80°	241.4	0.8
80°-90°	65.3	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°	29585.4	100.0
0°-180°	29585.4	100.0



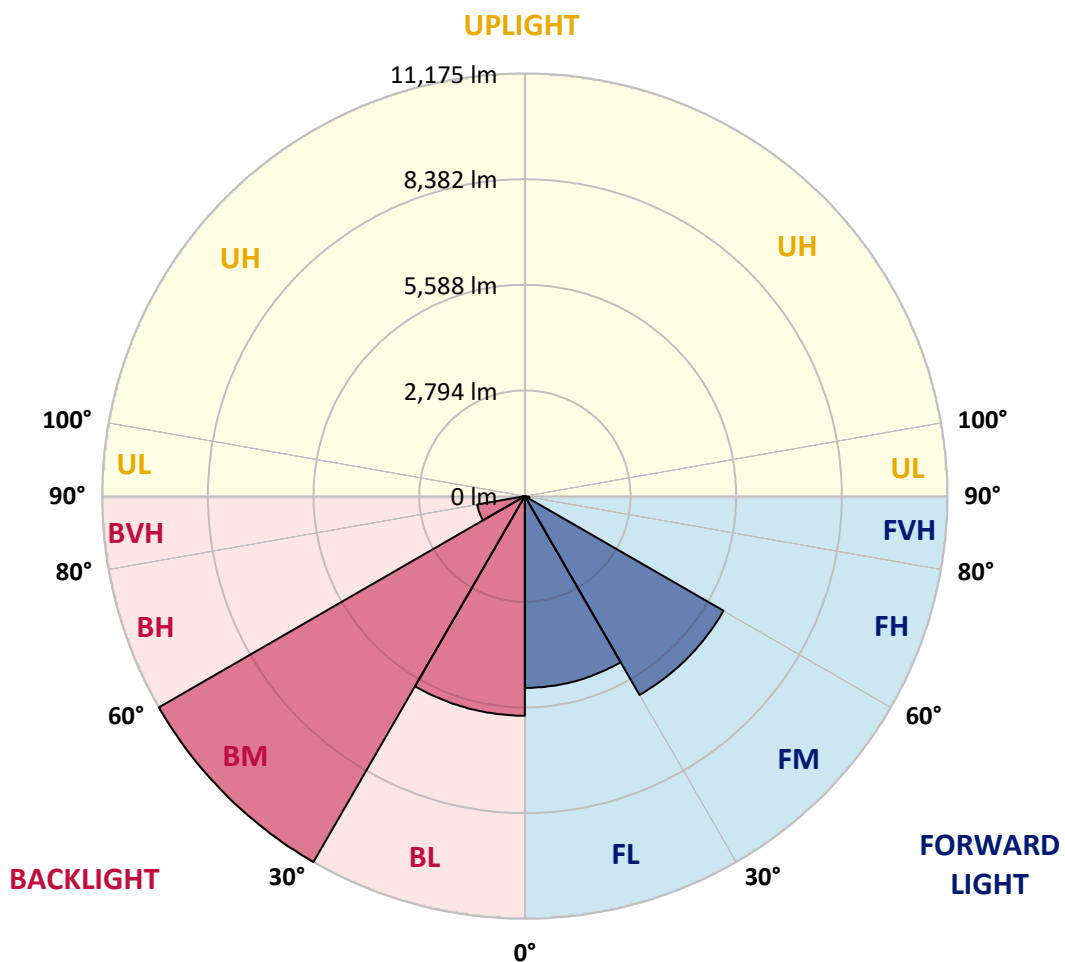
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5070.0	17.1			
FM (30°-60°)	6068.6	20.5			
FH (60°-80°)	121.6	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	5806.2	19.6	B5		
BM (30°-60°)	11175.5	37.8	B5		
BH (60°-80°)	1278.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	56.5	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6
2.5°	12822.1	12739.5	12661.3	12635.2	12743.9	12861.3	12787.3	12791.7	12765.6	12813.4
5°	12917.8	12804.7	12752.6	12713.4	12730.8	12852.6	12748.2	12787.3	12743.9	12800.4
7.5°	12883.0	12804.7	12752.6	12678.6	12735.2	12878.6	12778.6	12783.0	12761.3	12813.4
10°	12861.3	12804.7	12739.5	12748.2	12813.4	12935.2	12856.9	12900.4	12870.0	12900.4
12.5°	12913.4	12852.6	12817.8	12817.8	12874.3	13013.4	12974.3	13013.4	13000.4	13026.5
15°	12422.1	12478.6	12809.1	12956.9	13070.0	13209.1	13191.7	13230.8	13239.5	13278.7
17.5°	10478.6	10422.1	10396.0	11156.9	13178.7	13609.1	13596.1	13591.7	13548.2	13517.8
20°	10735.1	10713.4	10682.9	10739.5	10965.5	13817.8	13904.8	13370.0	13213.4	13200.4
22.5°	11143.8	11109.0	10996.0	11000.3	11069.9	12013.4	13474.3	12987.3	12935.2	12904.7
25°	11343.8	11274.3	11182.9	11156.9	11178.6	11004.7	12035.1	12613.4	12356.9	12239.5
27.5°	10991.6	10996.0	10922.1	10991.6	10909.0	10126.4	9687.2	11883.0	11874.3	11822.1
30°	10726.4	10713.4	10626.4	10713.4	10143.8	9269.8	9082.9	11082.9	10991.6	10922.1
32.5°	9913.3	9922.0	10174.2	10513.4	9578.5	8887.2	8322.0	9900.3	10765.5	10726.4
35°	7091.5	7108.9	8004.6	9678.6	8722.0	8126.3	8082.9	8556.8	10409.0	10426.4
37.5°	6826.3	6826.3	6804.6	7078.5	8048.1	7817.6	7904.6	7856.8	9535.1	9578.5
40°	6635.0	6595.9	6565.4	6135.0	5595.8	7600.2	7661.1	7443.7	9013.3	9022.0
42.5°	6404.5	6361.1	6369.8	5574.1	5008.8	7061.1	6891.5	6600.2	8143.7	8152.4
45°	5982.8	6056.7	6108.9	4878.4	4834.9	5043.6	6356.7	6174.1	7556.7	7717.6
47.5°	3043.6	3108.8	4769.7	4487.1	4587.1	4482.7	5369.7	5374.1	6287.1	6821.9
50°	2761.0	2743.6	2747.9	2617.5	4234.9	3626.2	3882.7	4926.2	5034.9	5800.2
52.5°	2574.0	2569.6	2304.4	2047.9	2660.9	3191.4	2817.5	3565.3	3743.6	4913.2
55°	1904.4	2043.5	1817.4	1926.1	1665.3	2556.6	2543.6	3217.5	3278.4	3939.2
57.5°	17.4	21.7	52.2	1465.3	1152.2	1278.3	1756.6	2195.7	2304.4	3069.7
60°	4.3	8.7	21.7	43.5	747.8	787.0	1173.9	1269.6	1430.5	1830.5
62.5°	0.0	0.0	8.7	21.7	39.1	321.7	373.9	408.7	630.5	934.8
65°	0.0	0.0	4.3	13.0	21.7	52.2	91.3	191.3	273.9	339.1
67.5°	0.0	0.0	4.3	8.7	17.4	26.1	52.2	73.9	117.4	200.0
70°	0.0	0.0	4.3	8.7	13.0	21.7	34.8	52.2	69.6	100.0
72.5°	0.0	0.0	4.3	8.7	8.7	26.1	26.1	39.1	52.2	65.2
75°	0.0	0.0	4.3	4.3	8.7	17.4	26.1	30.4	34.8	52.2
77.5°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	34.8	30.4	30.4
80°	0.0	0.0	4.3	13.0	13.0	21.7	26.1	34.8	21.7	21.7
82.5°	0.0	0.0	4.3	17.4	13.0	43.5	43.5	47.8	17.4	17.4
85°	0.0	0.0	13.0	8.7	26.1	43.5	39.1	26.1	21.7	13.0
87.5°	0.0	0.0	4.3	4.3	8.7	13.0	30.4	26.1	8.7	8.7
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°
12765.6	0°	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6	12765.6
12687.3	2.5°	12861.3	12804.7	12922.1	12909.1	12852.6	12826.5	12796.0	12770.0	12578.6
12696.0	5°	12865.6	12778.6	12922.1	12896.0	12887.3	12843.9	12817.8	12856.9	12683.0
12730.8	7.5°	12865.6	12778.6	12935.2	12943.9	12930.8	12896.0	12891.7	12917.8	12774.3
12791.7	10°	12952.6	12917.8	13048.2	13061.3	13043.9	13035.2	13013.4	12996.0	12843.9
13000.4	12.5°	13135.2	13065.6	13213.4	13252.6	13239.5	13261.3	13209.1	13235.2	13078.7
13213.4	15°	13356.9	13361.3	13474.3	13561.3	13552.6	13622.2	13543.9	13613.5	13500.4
13456.9	17.5°	13696.1	13743.9	13904.8	14035.2	14083.0	14135.2	14083.0	14104.8	13943.9
13187.4	20°	13339.5	13517.8	14291.7	14530.9	14630.9	14678.7	14591.7	14617.8	14457.0
12856.9	22.5°	13017.8	13248.2	13935.2	14683.1	14991.8	15087.4	15057.0	15052.6	14991.8
12204.7	25°	12543.9	13009.1	13317.8	14109.1	15078.7	15252.6	15270.0	15265.7	15174.4
11804.7	27.5°	11961.2	12065.6	12865.6	13348.2	14470.0	15130.9	15104.8	14978.7	14857.0
10974.2	30°	11217.7	11691.7	12052.5	12822.1	13683.0	14757.0	14757.0	14661.3	14535.2
10678.6	32.5°	10839.5	11452.5	11787.3	12065.6	12800.4	14339.6	14513.5	14413.5	14313.5
10448.1	35°	10639.5	10730.8	11513.4	11765.6	12387.3	13535.2	14239.6	14139.6	14065.6
9835.1	37.5°	10200.3	10413.4	10778.6	11452.5	11643.8	12878.6	13874.3	13822.2	13735.2
9039.4	40°	9222.0	9791.6	10352.5	10991.6	11191.6	12035.1	13430.8	13452.6	13335.2
8191.6	42.5°	8643.7	9030.7	9909.0	10339.4	10878.6	11491.7	13000.4	13035.2	12952.6
7761.1	45°	7965.5	8395.9	9013.3	9795.9	10530.8	10743.8	12239.5	12604.7	12535.2
6904.6	47.5°	7343.7	7691.5	8448.1	9239.4	10052.5	10022.0	11365.6	12052.5	11956.9
6248.0	50°	6461.1	7069.8	7426.3	8152.4	9365.5	9448.1	10435.1	11404.7	11326.4
5308.9	52.5°	5448.0	6213.2	6895.9	7561.1	8669.8	8865.5	9569.9	10743.8	10691.6
4056.6	55°	4761.0	5317.6	6087.1	6621.9	7826.3	8348.1	8922.0	10113.3	10087.3
3334.9	57.5°	3387.1	4461.0	5095.8	5843.7	6478.5	7422.0	7848.1	8830.7	8587.2
1847.9	60°	2295.7	2800.1	3574.0	4378.4	4804.5	5748.0	6143.7	6930.6	6865.4
1104.4	62.5°	1213.1	1678.3	2230.5	2634.9	2943.6	3861.0	4026.2	4874.1	4852.3
443.5	65°	534.8	708.7	1208.7	1417.4	1734.8	2160.9	2304.4	2608.8	2534.9
217.4	67.5°	278.3	421.8	682.6	839.2	1056.6	1217.4	1334.8	1430.5	1491.3
143.5	70°	169.6	308.7	421.8	582.6	726.1	856.5	947.9	1078.3	1156.6
73.9	72.5°	126.1	195.7	291.3	447.8	526.1	678.3	769.6	865.2	934.8
60.9	75°	69.6	130.4	234.8	352.2	421.8	552.2	634.8	700.0	721.8
34.8	77.5°	43.5	100.0	195.7	273.9	330.4	447.8	426.1	487.0	539.1
26.1	80°	30.4	73.9	152.2	226.1	230.4	287.0	339.1	391.3	426.1
17.4	82.5°	21.7	60.9	113.0	173.9	152.2	221.7	265.2	304.4	221.7
13.0	85°	17.4	43.5	56.5	104.4	87.0	156.5	134.8	130.4	87.0
8.7	87.5°	13.0	21.7	39.1	47.8	34.8	34.8	43.5	52.2	43.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12765.6
12448.2
12535.2
12609.1
12717.8
12939.5
13313.4
13804.8
14343.9
14796.1
15035.2
14761.3
14487.4
14230.9
13961.3
13648.2
13309.1
12943.9
12543.9
12026.4
11339.5
10726.4
10117.7
8561.1
6869.8
4856.7
2504.4
1491.3
1160.9
947.9
708.7
547.8
430.4
160.9
87.0
43.5
0.0

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