

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: P638358

Luminaire Tested: **IFLD-L-SA8B-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25086 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

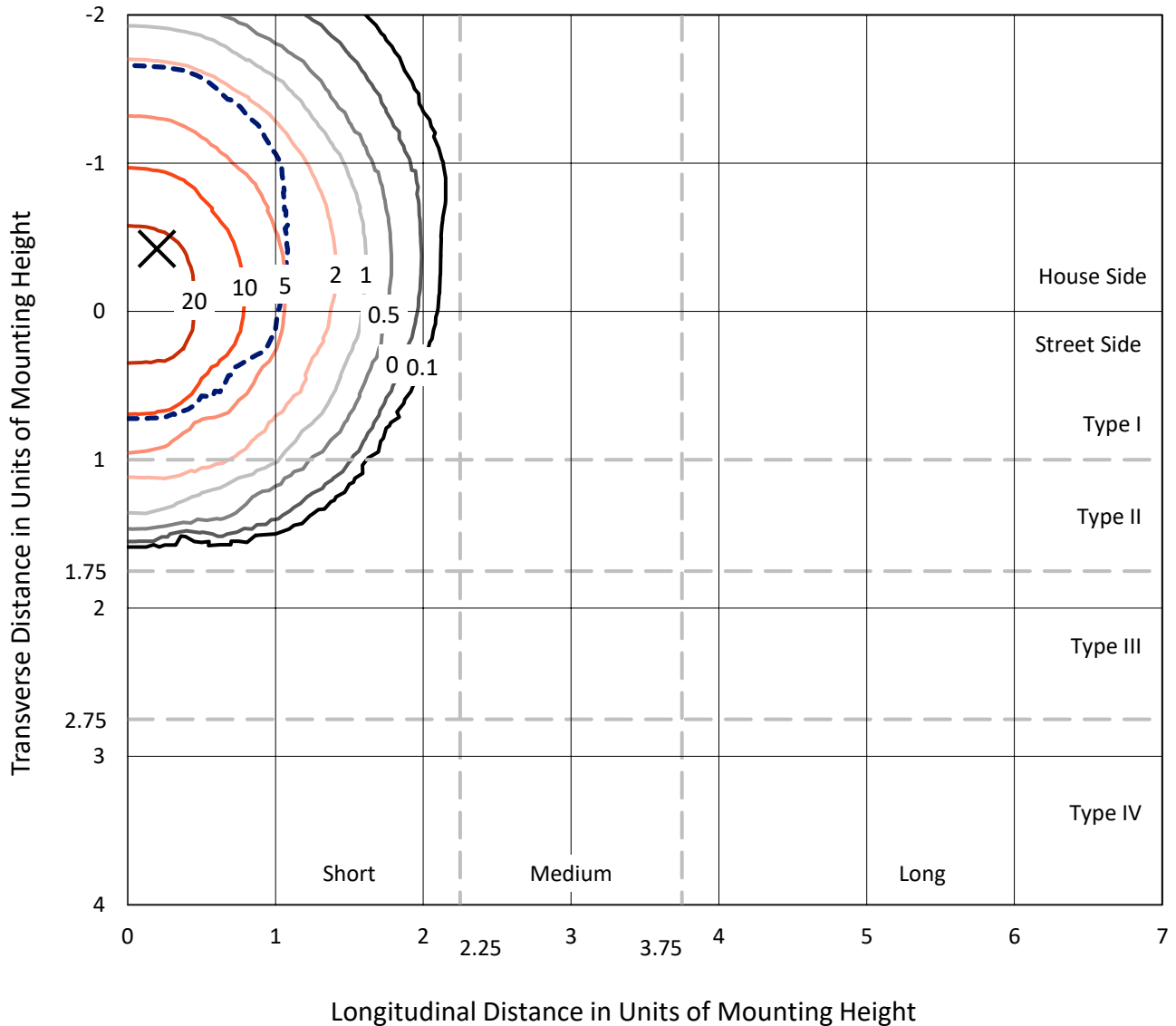
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

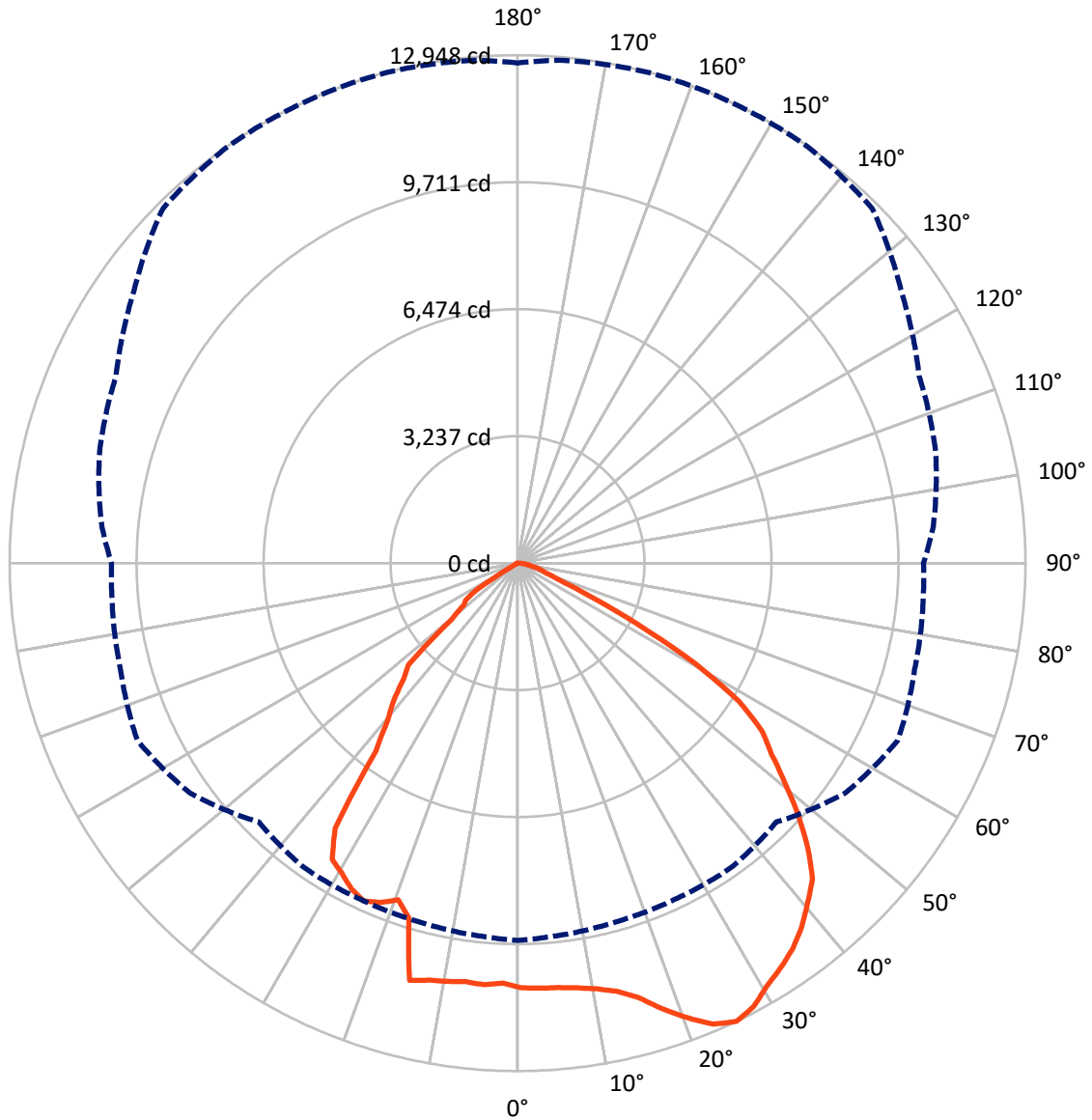
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.1 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	15530.8	0.0	15530.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9555.2	0.0	9555.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	25086.0	0.0	25086.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.4	4.1
10°-20°	3170.8	12.6
20°-30°	5012.9	20.0
30°-40°	5662.5	22.6
40°-50°	5303.0	21.1
50°-60°	3656.1	14.6
60°-70°	982.3	3.9
70°-80°	204.7	0.8
80°-90°	55.4	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°	25086.0	100.0
0°-180°	25086.0	100.0



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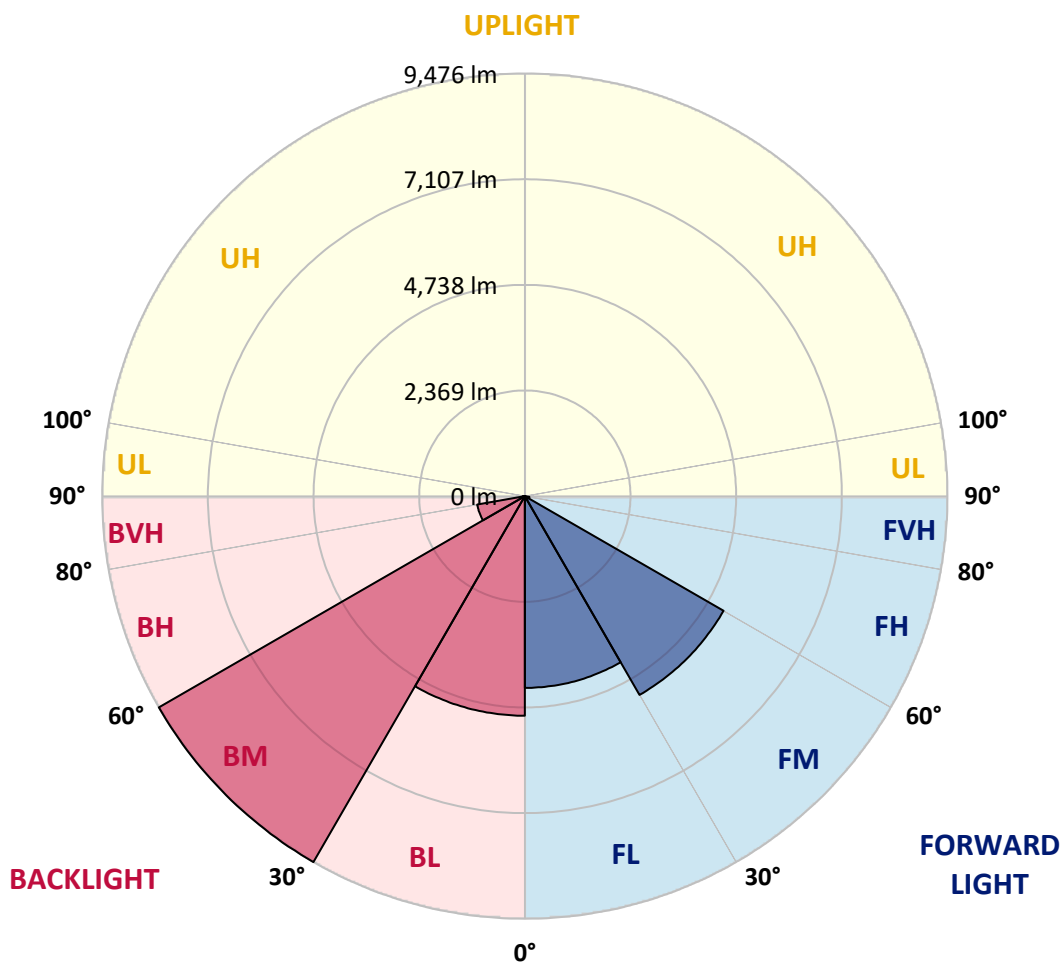
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4298.9	17.1			
FM (30°-60°)	5145.7	20.5			
FH (60°-80°)	103.1	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	4923.2	19.6	B4/5000		
BM (30°-60°)	9475.9	37.8	B5		
BH (60°-80°)	1083.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.9	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2
2.5°	10872.1	10802.0	10735.7	10713.6	10805.7	10905.3	10842.6	10846.3	10824.2	10864.7
5°	10953.2	10857.3	10813.1	10779.9	10794.7	10897.9	10809.4	10842.6	10805.7	10853.7
7.5°	10923.7	10857.3	10813.1	10750.4	10798.4	10920.0	10835.2	10838.9	10820.5	10864.7
10°	10905.3	10857.3	10802.0	10809.4	10864.7	10967.9	10901.6	10938.5	10912.6	10938.5
12.5°	10949.5	10897.9	10868.4	10868.4	10916.3	11034.3	11001.1	11034.3	11023.2	11045.4
15°	10532.9	10580.8	10861.0	10986.4	11082.2	11200.2	11185.5	11218.6	11226.0	11259.2
17.5°	8885.0	8837.0	8814.9	9460.1	11174.4	11539.4	11528.3	11524.6	11487.8	11462.0
20°	9102.5	9084.0	9058.2	9106.2	9297.9	11716.3	11790.1	11336.6	11203.9	11192.8
22.5°	9449.0	9419.5	9323.7	9327.4	9386.3	10186.4	11425.1	11012.2	10967.9	10942.1
25°	9618.6	9559.6	9482.2	9460.1	9478.5	9331.0	10204.8	10695.1	10477.6	10378.1
27.5°	9320.0	9323.7	9261.0	9320.0	9249.9	8586.3	8214.0	10075.8	10068.4	10024.1
30°	9095.1	9084.0	9010.3	9084.0	8601.1	7860.1	7701.5	9397.4	9320.0	9261.0
32.5°	8405.7	8413.1	8626.9	8914.5	8121.8	7535.6	7056.4	8394.6	9128.3	9095.1
35°	6013.0	6027.8	6787.2	8206.6	7395.5	6890.5	6853.6	7255.4	8826.0	8840.7
37.5°	5788.1	5788.1	5769.7	6002.0	6824.1	6628.7	6702.4	6661.9	8084.9	8121.8
40°	5625.9	5592.7	5566.9	5201.9	4744.8	6444.4	6496.0	6311.6	7642.5	7649.9
42.5°	5430.5	5393.6	5401.0	4726.4	4247.1	5987.2	5843.4	5596.4	6905.2	6912.6
45°	5072.9	5135.6	5179.8	4136.5	4099.6	4276.6	5390.0	5235.1	6407.5	6543.9
47.5°	2580.7	2636.0	4044.3	3804.7	3889.5	3801.0	4553.1	4556.8	5331.0	5784.4
50°	2341.1	2326.3	2330.0	2219.4	3590.9	3074.7	3292.2	4177.0	4269.2	4918.1
52.5°	2182.5	2178.8	1954.0	1736.4	2256.3	2706.0	2389.0	3023.1	3174.3	4166.0
55°	1614.8	1732.8	1541.0	1633.2	1412.0	2167.8	2156.7	2728.2	2779.8	3340.2
57.5°	14.7	18.4	44.2	1242.4	977.0	1083.9	1489.4	1861.8	1954.0	2602.8
60°	3.7	7.4	18.4	36.9	634.1	667.3	995.4	1076.5	1212.9	1552.1
62.5°	0.0	0.0	7.4	18.4	33.2	272.8	317.1	346.6	534.6	792.6
65°	0.0	0.0	3.7	11.1	18.4	44.2	77.4	162.2	232.3	287.6
67.5°	0.0	0.0	3.7	7.4	14.7	22.1	44.2	62.7	99.5	169.6
70°	0.0	0.0	3.7	7.4	11.1	18.4	29.5	44.2	59.0	84.8
72.5°	0.0	0.0	3.7	7.4	7.4	22.1	22.1	33.2	44.2	55.3
75°	0.0	0.0	3.7	3.7	7.4	14.7	22.1	25.8	29.5	44.2
77.5°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	29.5	25.8	25.8
80°	0.0	0.0	3.7	11.1	11.1	18.4	22.1	29.5	18.4	18.4
82.5°	0.0	0.0	3.7	14.7	11.1	36.9	36.9	40.6	14.7	14.7
85°	0.0	0.0	11.1	7.4	22.1	36.9	33.2	22.1	18.4	11.1
87.5°	0.0	0.0	3.7	3.7	7.4	11.1	25.8	22.1	7.4	7.4
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°
10824.2	0°	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2	10824.2
10757.8	2.5°	10905.3	10857.3	10956.9	10945.8	10897.9	10875.8	10850.0	10827.9	10665.6
10765.2	5°	10909.0	10835.2	10956.9	10934.8	10927.4	10890.5	10868.4	10901.6	10754.1
10794.7	7.5°	10909.0	10835.2	10967.9	10975.3	10964.3	10934.8	10931.1	10953.2	10831.5
10846.3	10°	10982.7	10953.2	11063.8	11074.9	11060.1	11052.7	11034.3	11019.6	10890.5
11023.2	12.5°	11137.5	11078.5	11203.9	11237.1	11226.0	11244.4	11200.2	11222.3	11089.6
11203.9	15°	11325.6	11329.2	11425.1	11498.8	11491.5	11550.4	11484.1	11543.1	11447.2
11410.4	17.5°	11613.1	11653.7	11790.1	11900.7	11941.2	11985.5	11941.2	11959.7	11823.3
11181.8	20°	11310.8	11462.0	12118.2	12321.0	12405.8	12446.3	12372.6	12394.7	12258.3
10901.6	22.5°	11038.0	11233.4	11815.9	12450.0	12711.8	12792.9	12767.1	12763.4	12711.8
10348.6	25°	10636.1	11030.6	11292.4	11963.4	12785.5	12933.0	12947.7	12944.0	12866.6
10009.4	27.5°	10142.1	10230.6	10909.0	11318.2	12269.4	12829.7	12807.6	12700.7	12597.5
9305.2	30°	9511.7	9913.5	10219.5	10872.1	11602.1	12512.7	12512.7	12431.6	12324.7
9054.5	32.5°	9191.0	9710.8	9994.7	10230.6	10853.7	12158.8	12306.2	12221.4	12136.6
8859.2	35°	9021.4	9098.8	9762.4	9976.2	10503.4	11476.7	12074.0	11989.2	11926.5
8339.3	37.5°	8649.0	8829.7	9139.3	9710.8	9873.0	10920.0	11764.3	11720.0	11646.3
7664.7	40°	7819.5	8302.5	8778.0	9320.0	9489.6	10204.8	11388.2	11406.7	11307.1
6945.8	42.5°	7329.2	7657.3	8402.0	8767.0	9224.1	9744.0	11023.2	11052.7	10982.7
6580.8	45°	6754.0	7119.0	7642.5	8306.1	8929.2	9109.8	10378.1	10687.8	10628.8
5854.5	47.5°	6226.8	6521.8	7163.3	7834.2	8523.7	8497.9	9637.0	10219.5	10138.4
5297.8	50°	5478.4	5994.6	6296.9	6912.6	7941.2	8011.2	8848.1	9670.2	9603.9
4501.5	52.5°	4619.4	5268.3	5847.1	6411.2	7351.3	7517.2	8114.4	9109.8	9065.6
3439.7	55°	4036.9	4508.8	5161.4	5614.9	6636.1	7078.5	7565.1	8575.3	8553.2
2827.7	57.5°	2871.9	3782.6	4320.8	4954.9	5493.2	6293.2	6654.5	7487.7	7281.2
1566.8	60°	1946.6	2374.2	3030.5	3712.5	4073.8	4873.8	5209.3	5876.6	5821.3
936.4	62.5°	1028.6	1423.1	1891.3	2234.1	2495.9	3273.8	3413.9	4132.8	4114.4
376.0	65°	453.5	600.9	1024.9	1201.9	1471.0	1832.3	1954.0	2212.0	2149.3
184.3	67.5°	235.9	357.6	578.8	711.5	895.9	1032.3	1131.8	1212.9	1264.5
121.7	70°	143.8	261.8	357.6	494.0	615.7	726.3	803.7	914.3	980.7
62.7	72.5°	106.9	165.9	247.0	379.7	446.1	575.1	652.5	733.7	792.6
51.6	75°	59.0	110.6	199.1	298.6	357.6	468.2	538.3	593.6	612.0
29.5	77.5°	36.9	84.8	165.9	232.3	280.2	379.7	361.3	412.9	457.2
22.1	80°	25.8	62.7	129.0	191.7	195.4	243.3	287.6	331.8	361.3
14.7	82.5°	18.4	51.6	95.9	147.5	129.0	188.0	224.9	258.1	188.0
11.1	85°	14.7	36.9	47.9	88.5	73.7	132.7	114.3	110.6	73.7
7.4	87.5°	11.1	18.4	33.2	40.6	29.5	29.5	36.9	44.2	36.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10824.2
10555.0
10628.8
10691.4
10783.6
10971.6
11288.7
11705.3
12162.4
12545.9
12748.6
12516.4
12284.1
12066.6
11838.0
11572.6
11285.0
10975.3
10636.1
10197.4
9614.9
9095.1
8579.0
7259.1
5825.0
4118.0
2123.5
1264.5
984.4
803.7
600.9
464.5
365.0
136.4
73.7
36.9
0.0

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