

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: P636952

Luminaire Tested: **IFLD-S-SA6C-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22129.8 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

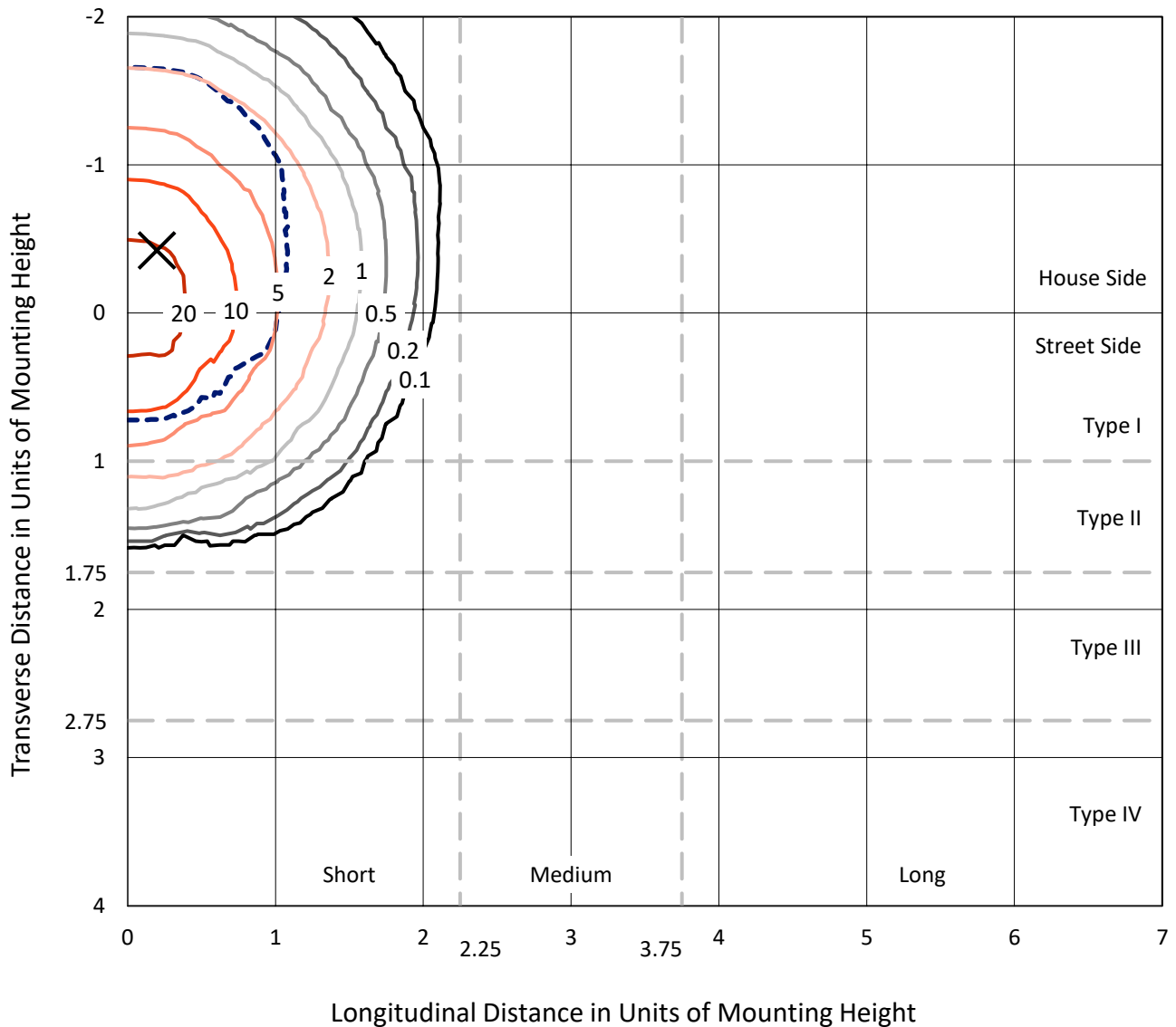
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

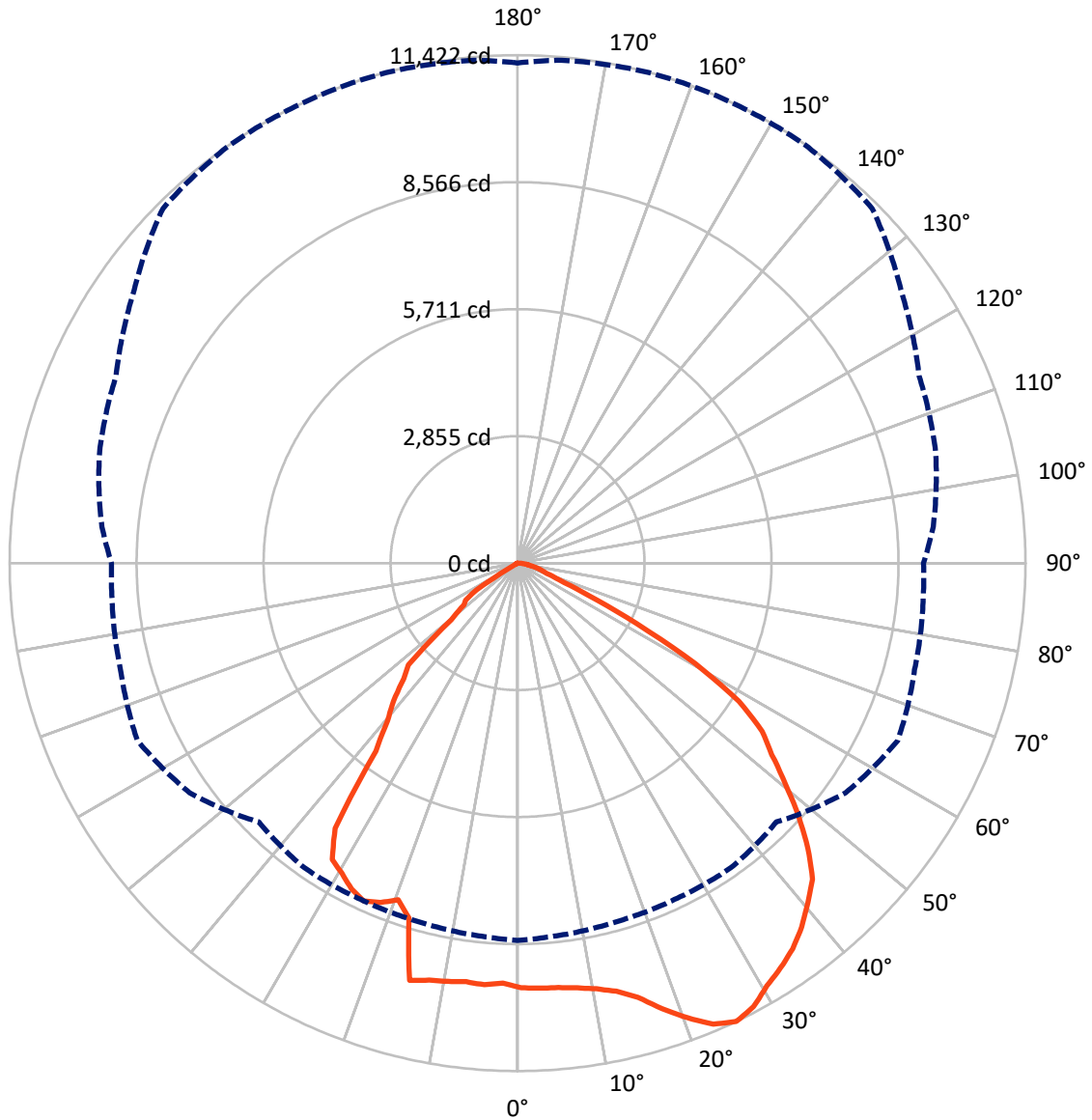
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.9 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	13700.6	0.0	13700.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8429.2	0.0	8429.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	22129.8	0.0	22129.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.1	4.1
10°-20°	2797.1	12.6
20°-30°	4422.1	20.0
30°-40°	4995.2	22.6
40°-50°	4678.1	21.1
50°-60°	3225.2	14.6
60°-70°	866.5	3.9
70°-80°	180.6	0.8
80°-90°	48.9	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°	22129.8	100.0
0°-180°	22129.8	100.0



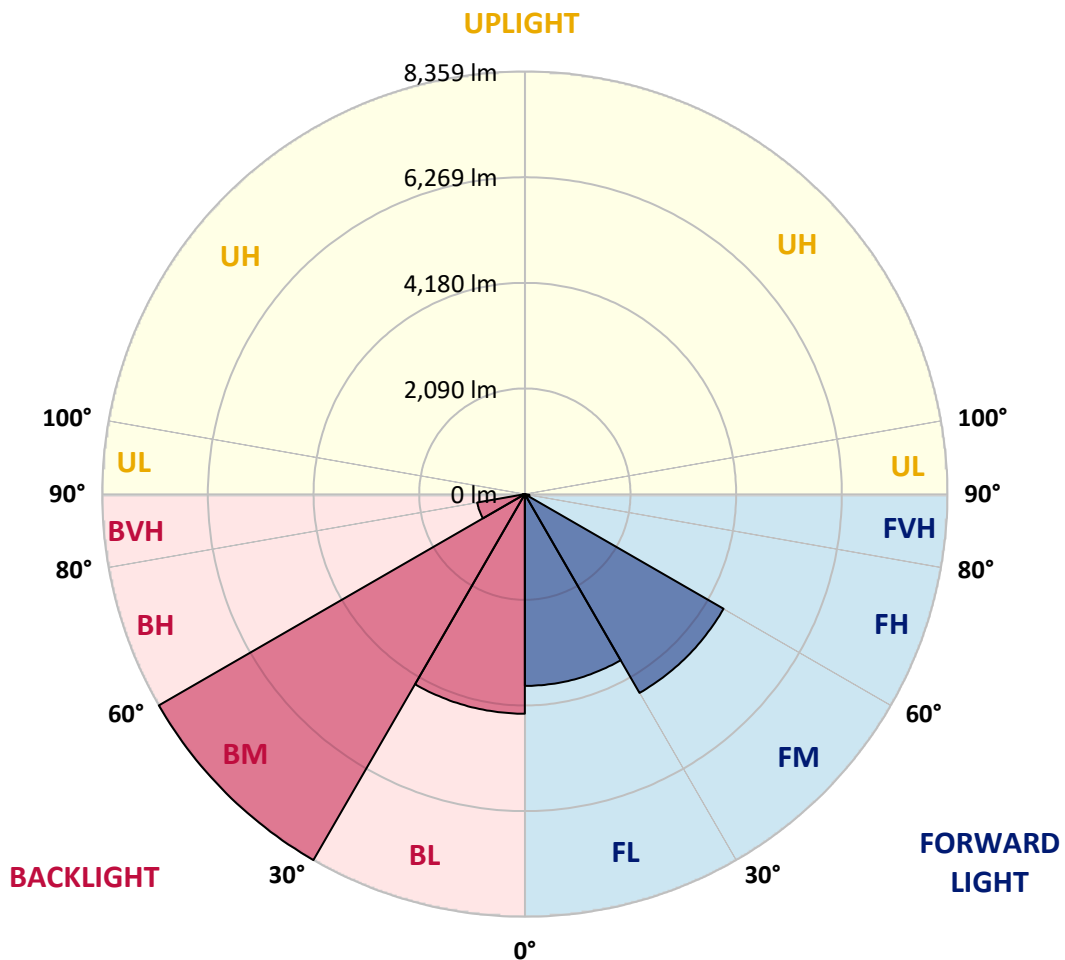
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3792.3	17.1			
FM (30°-60°)	4539.3	20.5			
FH (60°-80°)	91.0	0.4			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	4343.0	19.6	B4/5000		
BM (30°-60°)	8359.2	37.8	B4/8500		
BH (60°-80°)	956.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6
2.5°	9590.9	9529.1	9470.6	9451.0	9532.3	9620.2	9564.9	9568.1	9548.6	9584.4
5°	9662.4	9577.9	9538.8	9509.6	9522.6	9613.6	9535.6	9564.9	9532.3	9574.6
7.5°	9636.4	9577.9	9538.8	9483.6	9525.8	9633.2	9558.4	9561.6	9545.4	9584.4
10°	9620.2	9577.9	9529.1	9535.6	9584.4	9675.4	9616.9	9649.4	9626.7	9649.4
12.5°	9659.2	9613.6	9587.6	9587.6	9629.9	9734.0	9704.7	9734.0	9724.2	9743.7
15°	9291.7	9334.0	9581.1	9691.7	9776.3	9880.3	9867.3	9896.6	9903.1	9932.4
17.5°	7837.9	7795.6	7776.1	8345.3	9857.6	10179.5	10169.8	10166.5	10134.0	10111.2
20°	8029.8	8013.5	7990.8	8033.1	8202.2	10335.6	10400.7	10000.7	9883.6	9873.8
22.5°	8335.5	8309.5	8224.9	8228.2	8280.2	8986.0	10078.7	9714.5	9675.4	9652.7
25°	8485.1	8433.1	8364.8	8345.3	8361.5	8231.4	9002.2	9434.8	9242.9	9155.1
27.5°	8221.7	8224.9	8169.7	8221.7	8159.9	7574.5	7246.0	8888.4	8881.9	8842.9
30°	8023.3	8013.5	7948.5	8013.5	7587.5	6933.8	6793.9	8290.0	8221.7	8169.7
32.5°	7415.1	7421.6	7610.3	7863.9	7164.7	6647.6	6224.8	7405.4	8052.6	8023.3
35°	5304.4	5317.4	5987.4	7239.5	6524.0	6078.5	6045.9	6400.4	7785.9	7798.9
37.5°	5106.0	5106.0	5089.8	5294.7	6019.9	5847.5	5912.6	5876.8	7132.2	7164.7
40°	4962.9	4933.7	4910.9	4588.9	4185.6	5684.9	5730.5	5567.9	6741.9	6748.4
42.5°	4790.6	4758.0	4764.5	4169.4	3746.6	5281.7	5154.8	4936.9	6091.5	6098.0
45°	4475.1	4530.4	4569.4	3649.0	3616.5	3772.6	4754.8	4618.2	5652.4	5772.7
47.5°	2276.6	2325.4	3567.7	3356.3	3431.1	3353.1	4016.5	4019.8	4702.8	5102.8
50°	2065.2	2052.2	2055.4	1957.9	3167.7	2712.4	2904.3	3684.8	3766.1	4338.5
52.5°	1925.3	1922.1	1723.7	1531.8	1990.4	2387.2	2107.5	2666.8	2800.2	3675.0
55°	1424.5	1528.6	1359.4	1440.7	1245.6	1912.3	1902.6	2406.7	2452.2	2946.5
57.5°	13.0	16.3	39.0	1096.0	861.8	956.2	1313.9	1642.4	1723.7	2296.1
60°	3.3	6.5	16.3	32.5	559.4	588.7	878.1	949.7	1070.0	1369.2
62.5°	0.0	0.0	6.5	16.3	29.3	240.7	279.7	305.7	471.6	699.2
65°	0.0	0.0	3.3	9.8	16.3	39.0	68.3	143.1	204.9	253.7
67.5°	0.0	0.0	3.3	6.5	13.0	19.5	39.0	55.3	87.8	149.6
70°	0.0	0.0	3.3	6.5	9.8	16.3	26.0	39.0	52.0	74.8
72.5°	0.0	0.0	3.3	6.5	6.5	19.5	19.5	29.3	39.0	48.8
75°	0.0	0.0	3.3	3.3	6.5	13.0	19.5	22.8	26.0	39.0
77.5°	0.0	0.0	3.3	6.5	9.8	13.0	16.3	26.0	22.8	22.8
80°	0.0	0.0	3.3	9.8	9.8	16.3	19.5	26.0	16.3	16.3
82.5°	0.0	0.0	3.3	13.0	9.8	32.5	32.5	35.8	13.0	13.0
85°	0.0	0.0	9.8	6.5	19.5	32.5	29.3	19.5	16.3	9.8
87.5°	0.0	0.0	3.3	3.3	6.5	9.8	22.8	19.5	6.5	6.5
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°
9548.6	0°	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6
9490.1	2.5°	9620.2	9577.9	9665.7	9655.9	9613.6	9594.1	9571.4	9551.9	9408.8
9496.6	5°	9623.4	9558.4	9665.7	9646.2	9639.7	9607.1	9587.6	9616.9	9486.8
9522.6	7.5°	9623.4	9558.4	9675.4	9681.9	9672.2	9646.2	9642.9	9662.4	9555.1
9568.1	10°	9688.5	9662.4	9760.0	9769.8	9756.7	9750.2	9734.0	9721.0	9607.1
9724.2	12.5°	9825.0	9773.0	9883.6	9912.9	9903.1	9919.4	9880.3	9899.8	9782.8
9883.6	15°	9990.9	9994.2	10078.7	10143.8	10137.3	10189.3	10130.8	10182.8	10098.2
10065.7	17.5°	10244.6	10280.4	10400.7	10498.3	10534.0	10573.1	10534.0	10550.3	10430.0
9864.1	20°	9977.9	10111.2	10690.1	10869.0	10943.8	10979.6	10914.5	10934.1	10813.7
9616.9	22.5°	9737.2	9909.6	10423.5	10982.8	11213.8	11285.3	11262.5	11259.3	11213.8
9129.1	25°	9382.7	9730.7	9961.6	10553.6	11278.8	11408.9	11421.9	11418.6	11350.4
8829.9	27.5°	8946.9	9025.0	9623.4	9984.4	10823.5	11317.8	11298.3	11204.0	11112.9
8208.7	30°	8390.8	8745.3	9015.2	9590.9	10234.8	11038.1	11038.1	10966.6	10872.3
7987.5	32.5°	8107.9	8566.4	8816.8	9025.0	9574.6	10725.9	10856.0	10781.2	10706.4
7815.2	35°	7958.3	8026.6	8612.0	8800.6	9265.7	10124.3	10651.1	10576.3	10521.0
7356.6	37.5°	7629.8	7789.1	8062.3	8566.4	8709.5	9633.2	10377.9	10338.9	10273.9
6761.4	40°	6898.0	7324.1	7743.6	8221.7	8371.3	9002.2	10046.2	10062.5	9974.6
6127.2	42.5°	6465.5	6754.9	7411.9	7733.8	8137.1	8595.7	9724.2	9750.2	9688.5
5805.3	45°	5958.1	6280.1	6741.9	7327.3	7876.9	8036.3	9155.1	9428.3	9376.2
5164.6	47.5°	5493.0	5753.2	6319.1	6911.0	7519.2	7496.4	8501.4	9015.2	8943.7
4673.5	50°	4832.8	5288.2	5554.8	6098.0	7005.3	7067.1	7805.4	8530.7	8472.1
3971.0	52.5°	4075.1	4647.5	5158.1	5655.7	6485.0	6631.3	7158.2	8036.3	7997.3
3034.3	55°	3561.2	3977.5	4553.1	4953.2	5854.0	6244.3	6673.6	7564.7	7545.2
2494.5	57.5°	2533.5	3336.8	3811.6	4371.0	4845.9	5551.6	5870.3	6605.3	6423.2
1382.2	60°	1717.2	2094.4	2673.3	3275.0	3593.7	4299.5	4595.4	5184.1	5135.3
826.1	62.5°	907.4	1255.4	1668.4	1970.9	2201.8	2888.0	3011.6	3645.8	3629.5
331.7	65°	400.0	530.1	904.1	1060.2	1297.6	1616.4	1723.7	1951.3	1896.1
162.6	67.5°	208.1	315.5	510.6	627.7	790.3	910.6	998.4	1070.0	1115.5
107.3	70°	126.8	230.9	315.5	435.8	543.1	640.7	709.0	806.6	865.1
55.3	72.5°	94.3	146.4	217.9	335.0	393.5	507.4	575.6	647.2	699.2
45.5	75°	52.0	97.6	175.6	263.4	315.5	413.0	474.8	523.6	539.9
26.0	77.5°	32.5	74.8	146.4	204.9	247.2	335.0	318.7	364.3	403.3
19.5	80°	22.8	55.3	113.8	169.1	172.4	214.6	253.7	292.7	318.7
13.0	82.5°	16.3	45.5	84.6	130.1	113.8	165.9	198.4	227.7	165.9
9.8	85°	13.0	32.5	42.3	78.1	65.0	117.1	100.8	97.6	65.0
6.5	87.5°	9.8	16.3	29.3	35.8	26.0	26.0	32.5	39.0	32.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9548.6
9311.2
9376.2
9431.5
9512.8
9678.7
9958.4
10325.9
10729.2
11067.4
11246.3
11041.4
10836.5
10644.6
10443.0
10208.8
9955.1
9681.9
9382.7
8995.7
8481.9
8023.3
7568.0
6403.7
5138.6
3632.8
1873.3
1115.5
868.4
709.0
530.1
409.8
322.0
120.3
65.0
32.5
0.0

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