

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: P638353

Luminaire Tested: **IFLD-L-SA7B-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638353
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21950.7 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

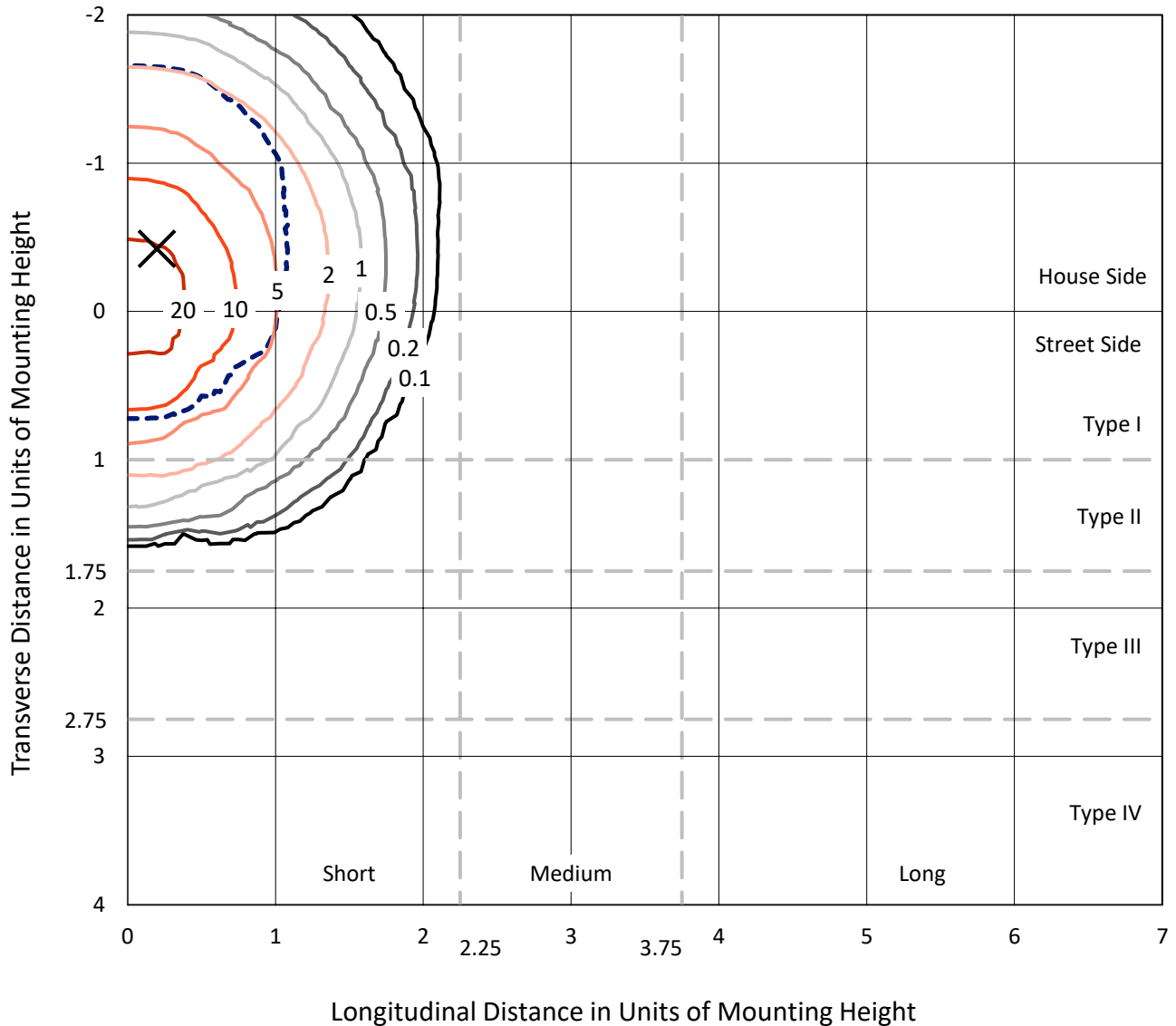
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

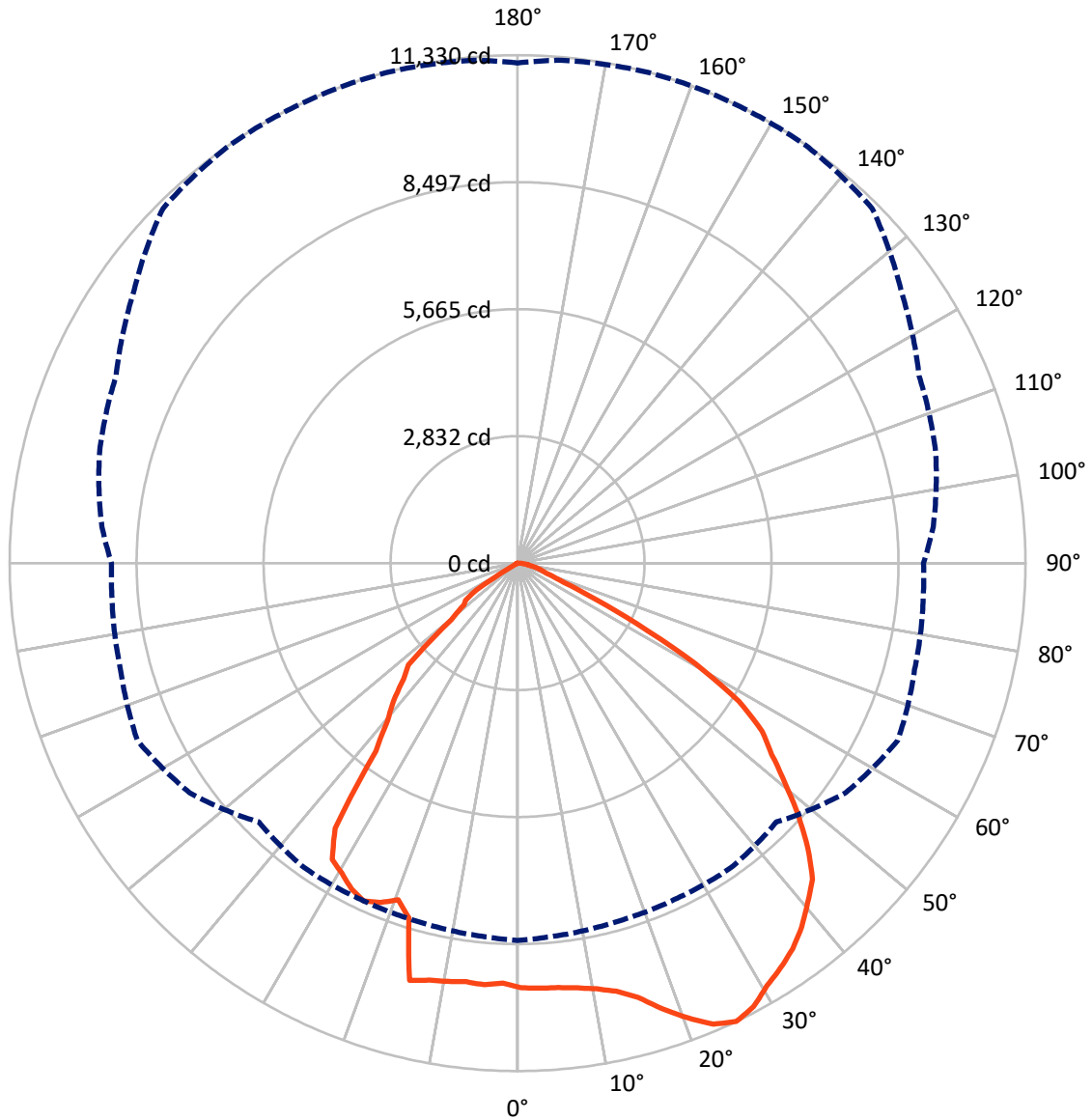
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.7 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	13589.7	0.0	13589.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8361.0	0.0	8361.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	21950.7	0.0	21950.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.6	4.1
10°-20°	2774.5	12.6
20°-30°	4386.4	20.0
30°-40°	4954.8	22.6
40°-50°	4640.2	21.1
50°-60°	3199.1	14.6
60°-70°	859.5	3.9
70°-80°	179.1	0.8
80°-90°	48.5	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°	21950.7	100.0
0°-180°	21950.7	100.0



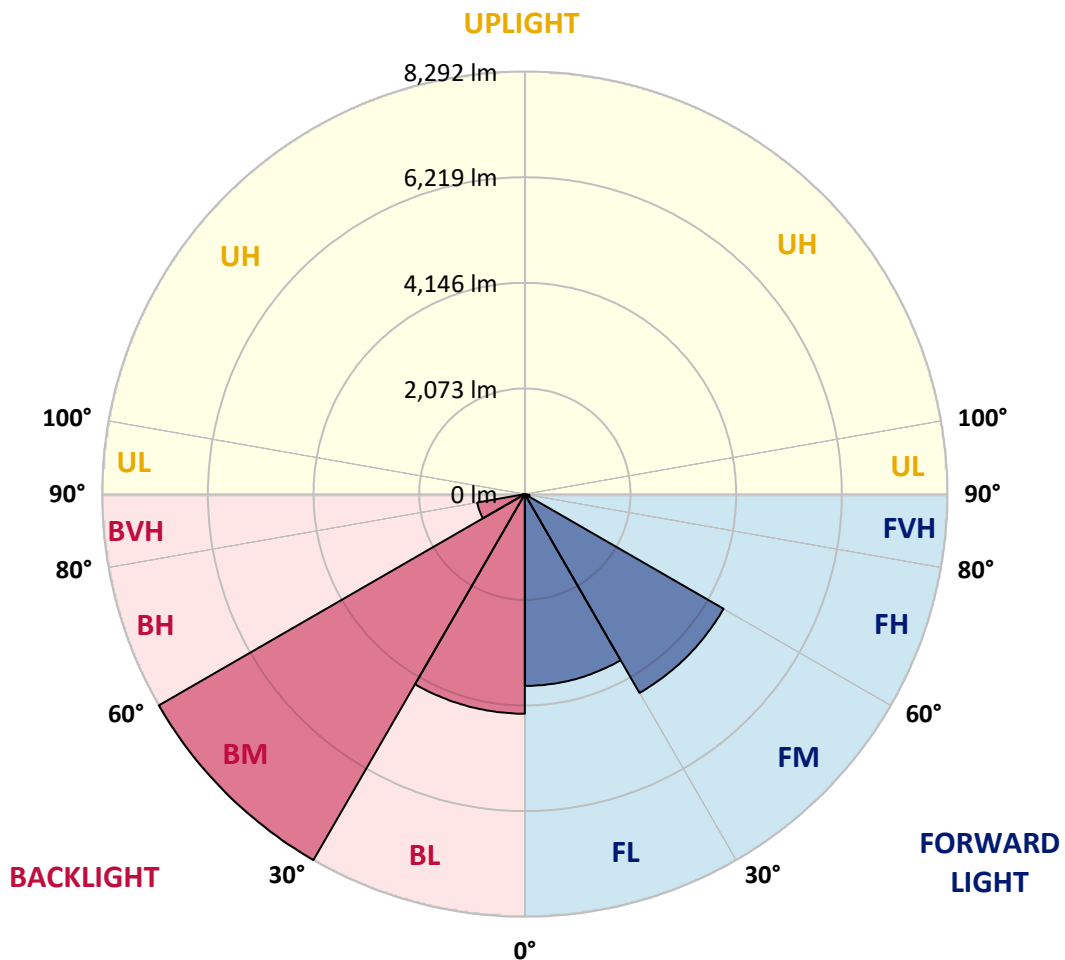
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3761.7	17.1			
FM	(30°-60°)	4502.6	20.5			
FH	(60°-80°)	90.2	0.4			G0/660
FVH	(80°-90°)	6.5	0.0			G0/10
BL	(0°-30°)	4307.9	19.6	B4/5000		
BM	(30°-60°)	8291.5	37.8	B4/8500		
BH	(60°-80°)	948.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	42.0	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°	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3
2.5°	9513.3	9452.0	9393.9	9374.6	9455.2	9542.3	9487.5	9490.7	9471.3	9506.8
5°	9584.2	9500.4	9461.7	9432.6	9445.5	9535.9	9458.4	9487.5	9455.2	9497.1
7.5°	9558.4	9500.4	9461.7	9406.8	9448.8	9555.2	9481.0	9484.2	9468.1	9506.8
10°	9542.3	9500.4	9452.0	9458.4	9506.8	9597.1	9539.1	9571.3	9548.8	9571.3
12.5°	9581.0	9535.9	9510.0	9510.0	9552.0	9655.2	9626.2	9655.2	9645.5	9664.9
15°	9216.5	9258.4	9503.6	9613.3	9697.2	9800.4	9787.5	9816.5	9823.0	9852.0
17.5°	7774.5	7732.6	7713.2	8277.7	9777.8	10097.2	10087.5	10084.3	10052.0	10029.4
20°	7964.8	7948.7	7926.1	7968.1	8135.8	10252.0	10316.5	9919.7	9803.6	9793.9
22.5°	8268.1	8242.3	8158.4	8161.6	8213.2	8913.3	9997.2	9635.9	9597.1	9574.6
25°	8416.5	8364.8	8297.1	8277.7	8293.9	8164.8	8929.4	9358.4	9168.1	9081.0
27.5°	8155.2	8158.4	8103.5	8155.2	8093.9	7513.2	7187.4	8816.5	8810.0	8771.3
30°	7958.4	7948.7	7884.2	7948.7	7526.1	6877.7	6739.0	8222.9	8155.2	8103.5
32.5°	7355.1	7361.6	7548.7	7800.3	7106.7	6593.8	6174.4	7345.4	7987.4	7958.4
35°	5261.5	5274.4	5938.9	7180.9	6471.2	6029.3	5997.0	6348.6	7722.9	7735.8
37.5°	5064.7	5064.7	5048.6	5251.8	5971.2	5800.2	5864.7	5829.3	7074.5	7106.7
40°	4922.8	4893.7	4871.2	4551.8	4151.8	5638.9	5684.1	5522.8	6687.4	6693.8
42.5°	4751.8	4719.5	4726.0	4135.6	3716.3	5238.9	5113.1	4897.0	6042.2	6048.6
45°	4438.9	4493.7	4532.4	3619.5	3587.2	3742.1	4716.3	4580.8	5606.7	5726.0
47.5°	2258.2	2306.5	3538.8	3329.2	3403.4	3325.9	3984.0	3987.3	4664.7	5061.5
50°	2048.5	2035.6	2038.8	1942.0	3142.1	2690.4	2880.8	3655.0	3735.6	4303.4
52.5°	1909.8	1906.5	1709.7	1519.4	1974.3	2367.8	2090.4	2645.3	2777.5	3645.3
55°	1413.0	1516.2	1348.4	1429.1	1235.5	1896.8	1887.2	2387.2	2432.4	2922.7
57.5°	12.9	16.1	38.7	1087.1	854.9	948.4	1303.3	1629.1	1709.7	2277.5
60°	3.2	6.5	16.1	32.3	554.9	583.9	871.0	942.0	1061.3	1358.1
62.5°	0.0	0.0	6.5	16.1	29.0	238.7	277.4	303.2	467.8	693.6
65°	0.0	0.0	3.2	9.7	16.1	38.7	67.7	141.9	203.2	251.6
67.5°	0.0	0.0	3.2	6.5	12.9	19.4	38.7	54.8	87.1	148.4
70°	0.0	0.0	3.2	6.5	9.7	16.1	25.8	38.7	51.6	74.2
72.5°	0.0	0.0	3.2	6.5	6.5	19.4	19.4	29.0	38.7	48.4
75°	0.0	0.0	3.2	3.2	6.5	12.9	19.4	22.6	25.8	38.7
77.5°	0.0	0.0	3.2	6.5	9.7	12.9	16.1	25.8	22.6	22.6
80°	0.0	0.0	3.2	9.7	9.7	16.1	19.4	25.8	16.1	16.1
82.5°	0.0	0.0	3.2	12.9	9.7	32.3	32.3	35.5	12.9	12.9
85°	0.0	0.0	9.7	6.5	19.4	32.3	29.0	19.4	16.1	9.7
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	22.6	19.4	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°
9471.3	0°	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3	9471.3
9413.3	2.5°	9542.3	9500.4	9587.5	9577.8	9535.9	9516.5	9493.9	9474.6	9332.6
9419.7	5°	9545.5	9481.0	9587.5	9568.1	9561.7	9529.4	9510.0	9539.1	9410.0
9445.5	7.5°	9545.5	9481.0	9597.1	9603.6	9593.9	9568.1	9564.9	9584.2	9477.8
9490.7	10°	9610.1	9584.2	9681.0	9690.7	9677.8	9671.3	9655.2	9642.3	9529.4
9645.5	12.5°	9745.5	9693.9	9803.6	9832.6	9823.0	9839.1	9800.4	9819.7	9703.6
9803.6	15°	9910.1	9913.3	9997.2	10061.7	10055.2	10106.8	10048.8	10100.4	10016.5
9984.3	17.5°	10161.7	10197.2	10316.5	10413.3	10448.8	10487.5	10448.8	10464.9	10345.6
9784.3	20°	9897.2	10029.4	10603.6	10781.1	10855.3	10890.7	10826.2	10845.6	10726.2
9539.1	22.5°	9658.4	9829.4	10339.1	10894.0	11123.0	11194.0	11171.4	11168.2	11123.0
9055.2	25°	9306.8	9652.0	9881.0	10468.2	11187.5	11316.6	11329.5	11326.2	11258.5
8758.4	27.5°	8874.5	8952.0	9545.5	9903.6	10735.9	11226.2	11206.9	11113.3	11023.0
8142.3	30°	8322.9	8674.5	8942.3	9513.3	10152.0	10948.8	10948.8	10877.8	10784.3
7922.9	32.5°	8042.3	8497.1	8745.5	8952.0	9497.1	10639.1	10768.2	10694.0	10619.8
7751.9	35°	7893.9	7961.6	8542.3	8729.4	9190.7	10042.3	10564.9	10490.7	10435.9
7297.1	37.5°	7568.0	7726.1	7997.1	8497.1	8639.0	9555.2	10294.0	10255.2	10190.7
6706.7	40°	6842.2	7264.8	7680.9	8155.2	8303.6	8929.4	9964.9	9981.0	9893.9
6077.7	42.5°	6413.2	6700.3	7351.9	7671.3	8071.3	8526.1	9645.5	9671.3	9610.1
5758.3	45°	5909.9	6229.3	6687.4	7268.0	7813.2	7971.3	9081.0	9352.0	9300.4
5122.8	47.5°	5448.6	5706.7	6268.0	6855.1	7458.4	7435.8	8432.6	8942.3	8871.3
4635.7	50°	4793.7	5245.4	5509.9	6048.6	6948.7	7010.0	7742.2	8461.6	8403.6
3938.9	52.5°	4042.1	4609.9	5116.3	5609.9	6432.5	6577.7	7100.3	7971.3	7932.6
3009.8	55°	3532.4	3945.3	4516.3	4913.1	5806.7	6193.8	6619.6	7503.5	7484.2
2474.3	57.5°	2513.0	3309.8	3780.8	4335.7	4806.6	5506.7	5822.8	6551.9	6371.2
1371.0	60°	1703.3	2077.5	2651.7	3248.5	3564.7	4264.7	4558.2	5142.1	5093.7
819.4	62.5°	900.0	1245.2	1654.9	1954.9	2184.0	2864.6	2987.2	3616.3	3600.1
329.0	65°	396.8	525.8	896.8	1051.7	1287.1	1603.3	1709.7	1935.6	1880.7
161.3	67.5°	206.5	312.9	506.5	622.6	783.9	903.3	990.4	1061.3	1106.5
106.5	70°	125.8	229.0	312.9	432.3	538.7	635.5	703.3	800.0	858.1
54.8	72.5°	93.6	145.2	216.1	332.3	390.3	503.2	571.0	642.0	693.6
45.2	75°	51.6	96.8	174.2	261.3	312.9	409.7	471.0	519.4	535.5
25.8	77.5°	32.3	74.2	145.2	203.2	245.2	332.3	316.1	361.3	400.0
19.4	80°	22.6	54.8	112.9	167.7	171.0	212.9	251.6	290.3	316.1
12.9	82.5°	16.1	45.2	83.9	129.0	112.9	164.5	196.8	225.8	164.5
9.7	85°	12.9	32.3	41.9	77.4	64.5	116.1	100.0	96.8	64.5
6.5	87.5°	9.7	16.1	29.0	35.5	25.8	25.8	32.3	38.7	32.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9471.3
9235.8
9300.4
9355.2
9435.9
9600.4
9877.8
10242.3
10642.4
10977.8
11155.3
10952.0
10748.8
10558.5
10358.5
10126.2
9874.6
9603.6
9306.8
8922.9
8413.2
7958.4
7506.7
6351.9
5097.0
3603.4
1858.1
1106.5
861.3
703.3
525.8
406.5
319.4
119.4
64.5
32.3
0.0

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