

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: P638352

Luminaire Tested: **IFLD-L-SA7A-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638352
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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: 19293.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

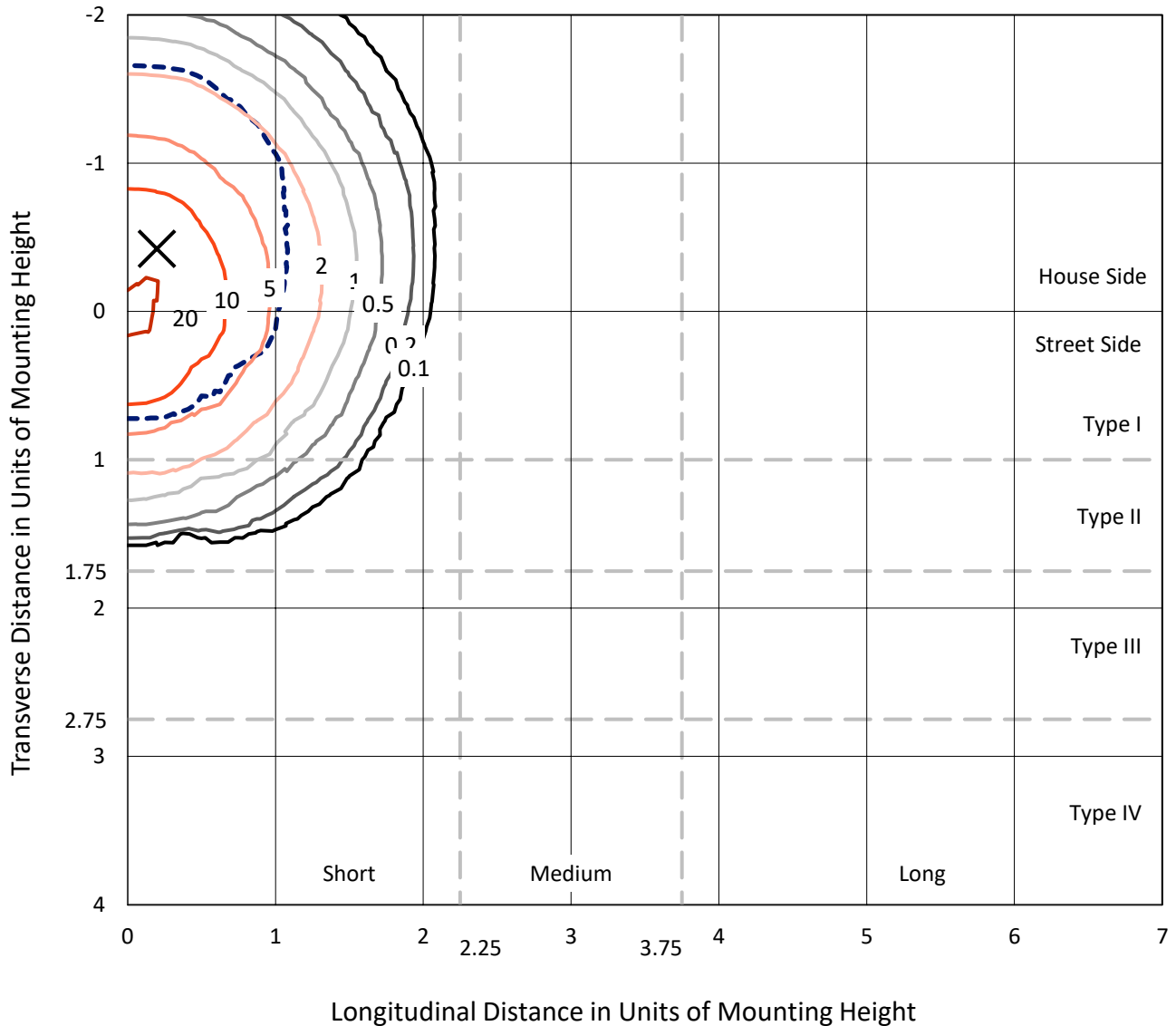
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

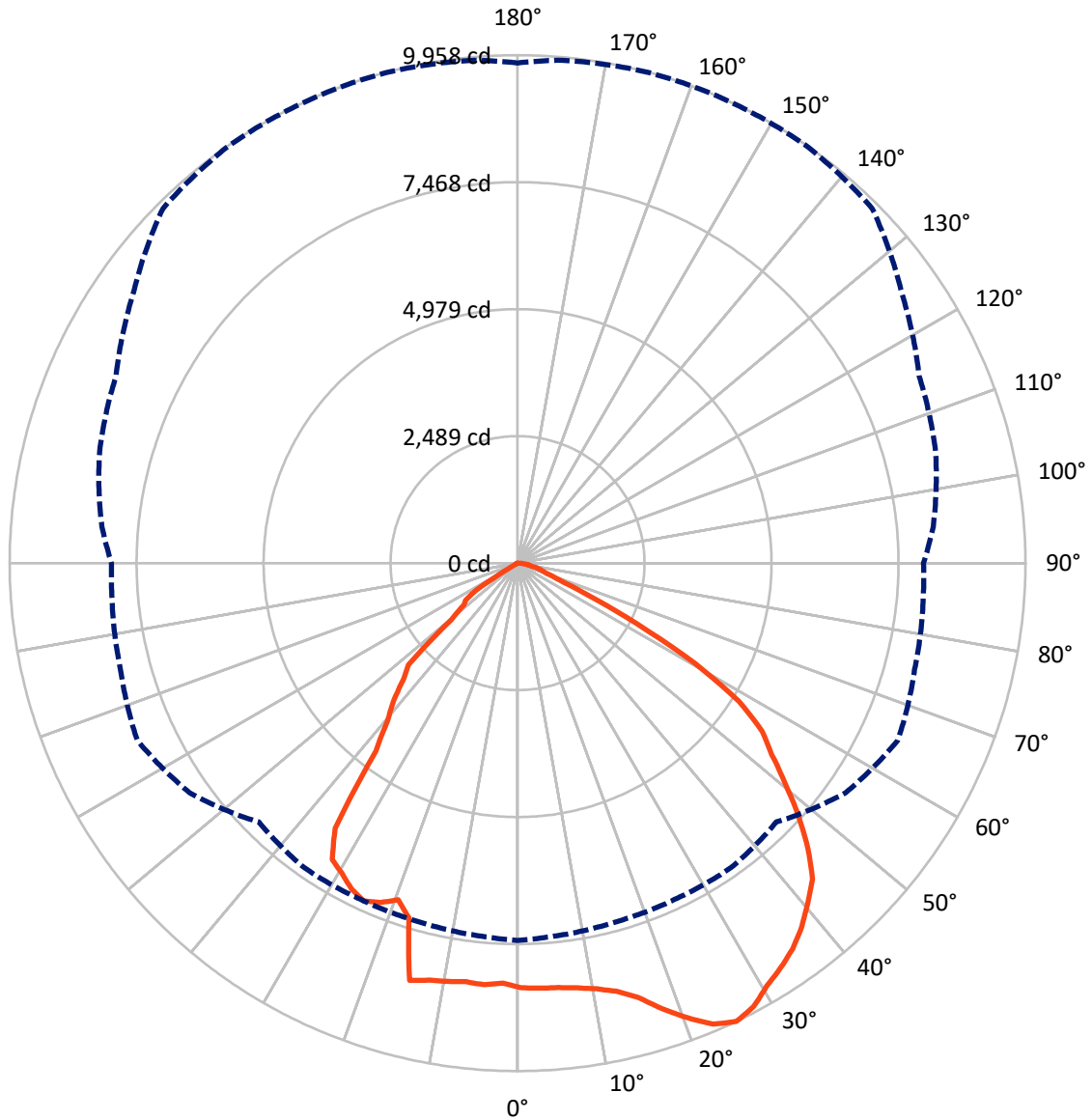
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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	11944.4	0.0	11944.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7348.7	0.0	7348.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	19293.1	0.0	19293.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.6	4.1
10°-20°	2438.6	12.6
20°-30°	3855.3	20.0
30°-40°	4354.9	22.6
40°-50°	4078.4	21.1
50°-60°	2811.8	14.6
60°-70°	755.4	3.9
70°-80°	157.4	0.8
80°-90°	42.6	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°	19293.1	100.0
0°-180°	19293.1	100.0



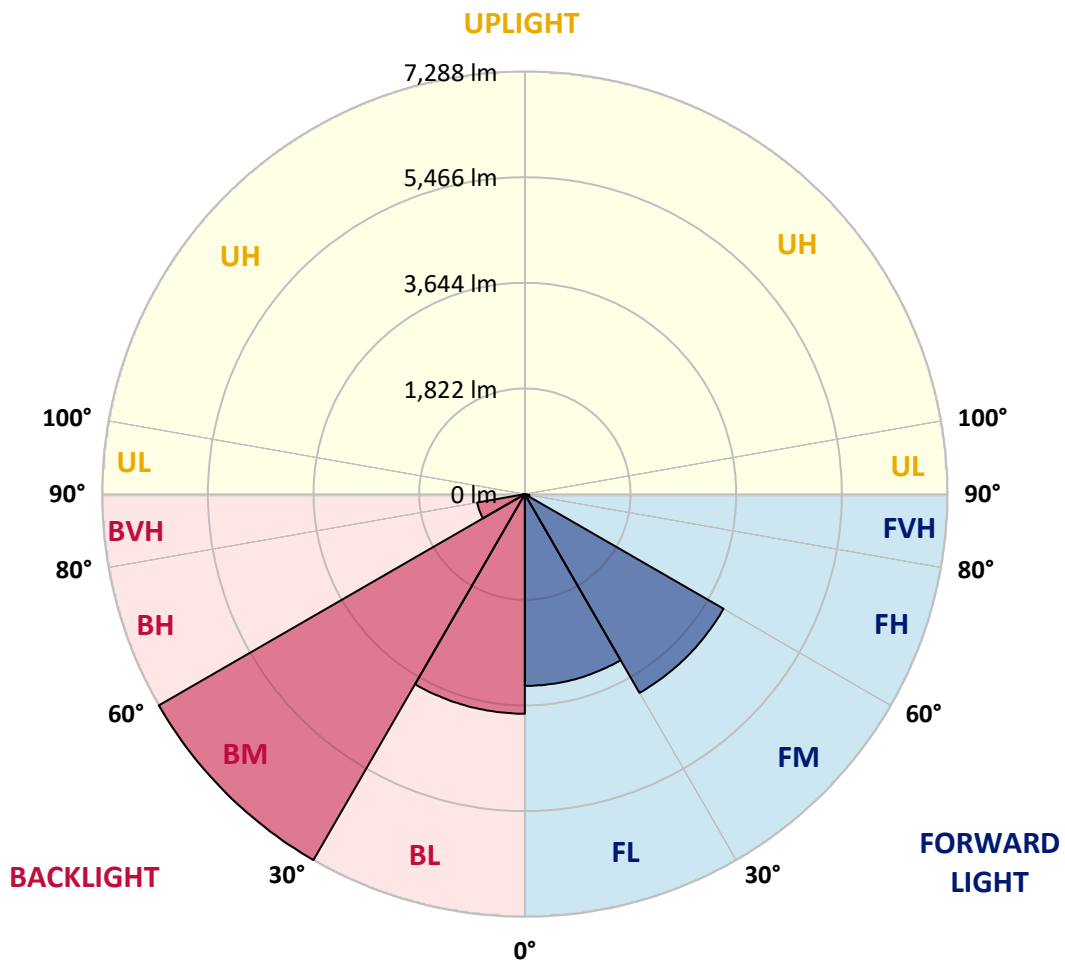
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.2	17.1			
FM (30°-60°)	3957.5	20.5			
FH (60°-80°)	79.3	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3786.3	19.6	B4/5000		
BM (30°-60°)	7287.7	37.8	B4/8500		
BH (60°-80°)	833.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6
2.5°	8361.5	8307.6	8256.6	8239.6	8310.5	8387.0	8338.8	8341.7	8324.6	8355.8
5°	8423.9	8350.2	8316.1	8290.6	8302.0	8381.4	8313.3	8338.8	8310.5	8347.3
7.5°	8401.2	8350.2	8316.1	8267.9	8304.8	8398.4	8333.1	8336.0	8321.8	8355.8
10°	8387.0	8350.2	8307.6	8313.3	8355.8	8435.2	8384.2	8412.5	8392.7	8412.5
12.5°	8421.0	8381.4	8358.7	8358.7	8395.5	8486.3	8460.7	8486.3	8477.8	8494.8
15°	8100.6	8137.5	8353.0	8449.4	8523.1	8613.9	8602.5	8628.0	8633.7	8659.2
17.5°	6833.2	6796.4	6779.4	7275.6	8594.0	8874.7	8866.2	8863.4	8835.0	8815.2
20°	7000.5	6986.3	6966.5	7003.4	7150.8	9010.8	9067.5	8718.8	8616.7	8608.2
22.5°	7267.1	7244.4	7170.6	7173.5	7218.8	7834.1	8786.8	8469.2	8435.2	8415.4
25°	7397.5	7352.1	7292.6	7275.6	7289.7	7176.3	7848.3	8225.4	8058.1	7981.6
27.5°	7167.8	7170.6	7122.4	7167.8	7113.9	6603.6	6317.2	7749.1	7743.4	7709.4
30°	6994.9	6986.3	6929.6	6986.3	6614.9	6045.0	5923.1	7227.4	7167.8	7122.4
32.5°	6464.6	6470.3	6634.8	6855.9	6246.3	5795.5	5426.9	6456.1	7020.4	6994.9
35°	4624.5	4635.8	5219.9	6311.5	5687.7	5299.3	5271.0	5580.0	6787.9	6799.2
37.5°	4451.5	4451.5	4437.4	4616.0	5248.3	5098.0	5154.7	5123.5	6218.0	6246.3
40°	4326.8	4301.3	4281.4	4000.7	3649.1	4956.2	4995.9	4854.2	5877.7	5883.4
42.5°	4176.5	4148.1	4153.8	3634.9	3266.3	4604.6	4494.1	4304.1	5310.6	5316.3
45°	3901.5	3949.7	3983.7	3181.3	3152.9	3289.0	4145.3	4026.2	4927.9	5032.8
47.5°	1984.8	2027.3	3110.4	2926.1	2991.3	2923.3	3501.7	3504.5	4099.9	4448.7
50°	1800.5	1789.1	1792.0	1706.9	2761.6	2364.7	2532.0	3212.5	3283.4	3782.4
52.5°	1678.5	1675.7	1502.7	1335.5	1735.2	2081.2	1837.3	2325.0	2441.3	3204.0
55°	1241.9	1332.6	1185.2	1256.1	1085.9	1667.2	1658.7	2098.2	2137.9	2568.8
57.5°	11.3	14.2	34.0	955.5	751.4	833.6	1145.5	1431.9	1502.7	2001.8
60°	2.8	5.7	14.2	28.4	487.7	513.2	765.5	827.9	932.8	1193.7
62.5°	0.0	0.0	5.7	14.2	25.5	209.8	243.8	266.5	411.1	609.6
65°	0.0	0.0	2.8	8.5	14.2	34.0	59.5	124.8	178.6	221.2
67.5°	0.0	0.0	2.8	5.7	11.3	17.0	34.0	48.2	76.6	130.4
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	45.4	65.2
72.5°	0.0	0.0	2.8	5.7	5.7	17.0	17.0	25.5	34.0	42.5
75°	0.0	0.0	2.8	2.8	5.7	11.3	17.0	19.8	22.7	34.0
77.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	22.7	19.8	19.8
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.0	22.7	14.2	14.2
82.5°	0.0	0.0	2.8	11.3	8.5	28.4	28.4	31.2	11.3	11.3
85°	0.0	0.0	8.5	5.7	17.0	28.4	25.5	17.0	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.8	17.0	5.7	5.7
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°
8324.6	0°	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6	8324.6
8273.6	2.5°	8387.0	8350.2	8426.7	8418.2	8381.4	8364.3	8344.5	8327.5	8202.7
8279.3	5°	8389.9	8333.1	8426.7	8409.7	8404.0	8375.7	8358.7	8384.2	8270.8
8302.0	7.5°	8389.9	8333.1	8435.2	8440.9	8432.4	8409.7	8406.9	8423.9	8330.3
8341.7	10°	8446.6	8423.9	8508.9	8517.4	8506.1	8500.4	8486.3	8474.9	8375.7
8477.8	12.5°	8565.6	8520.3	8616.7	8642.2	8633.7	8647.9	8613.9	8630.9	8528.8
8616.7	15°	8710.3	8713.1	8786.8	8843.5	8837.8	8883.2	8832.2	8877.5	8803.8
8775.5	17.5°	8931.4	8962.6	9067.5	9152.6	9183.8	9217.8	9183.8	9197.9	9093.0
8599.7	20°	8698.9	8815.2	9319.9	9475.8	9541.0	9572.2	9515.5	9532.5	9427.6
8384.2	22.5°	8489.1	8639.4	9087.4	9575.0	9776.4	9838.7	9818.9	9816.0	9776.4
7958.9	25°	8180.0	8483.4	8684.7	9200.8	9833.1	9946.5	9957.8	9955.0	9895.4
7698.0	27.5°	7800.1	7868.1	8389.9	8704.6	9436.1	9867.1	9850.1	9767.8	9688.5
7156.5	30°	7315.3	7624.3	7859.6	8361.5	8922.9	9623.2	9623.2	9560.9	9478.6
6963.7	32.5°	7068.6	7468.4	7686.7	7868.1	8347.3	9351.0	9464.5	9399.2	9334.0
6813.4	35°	6938.1	6997.7	7508.1	7672.5	8078.0	8826.5	9285.8	9220.6	9172.4
6413.6	37.5°	6651.8	6790.7	7028.9	7468.4	7593.1	8398.4	9047.7	9013.6	8956.9
5894.7	40°	6013.8	6385.3	6751.0	7167.8	7298.2	7848.3	8758.5	8772.6	8696.1
5341.8	42.5°	5636.7	5889.1	6461.8	6742.5	7094.1	7493.9	8477.8	8500.4	8446.6
5061.1	45°	5194.4	5475.1	5877.7	6388.1	6867.3	7006.2	7981.6	8219.7	8174.4
4502.6	47.5°	4788.9	5015.8	5509.1	6025.2	6555.4	6535.5	7411.7	7859.6	7797.3
4074.4	50°	4213.4	4610.3	4842.8	5316.3	6107.4	6161.3	6804.9	7437.2	7386.1
3462.0	52.5°	3552.7	4051.7	4496.9	4930.7	5653.7	5781.3	6240.6	7006.2	6972.2
2645.4	55°	3104.7	3467.7	3969.5	4318.3	5103.7	5443.9	5818.2	6595.1	6578.1
2174.7	57.5°	2208.8	2909.1	3323.1	3810.7	4224.7	4840.0	5117.8	5758.6	5599.9
1205.0	60°	1497.1	1826.0	2330.7	2855.2	3133.1	3748.4	4006.4	4519.6	4477.0
720.2	62.5°	791.1	1094.5	1454.5	1718.2	1919.5	2517.8	2625.6	3178.4	3164.3
289.2	65°	348.8	462.2	788.2	924.3	1131.3	1409.2	1502.7	1701.2	1653.0
141.8	67.5°	181.5	275.0	445.2	547.2	689.0	793.9	870.5	932.8	972.5
93.6	70°	110.6	201.3	275.0	379.9	473.5	558.6	618.1	703.2	754.2
48.2	72.5°	82.2	127.6	190.0	292.0	343.1	442.3	501.9	564.2	609.6
39.7	75°	45.4	85.1	153.1	229.7	275.0	360.1	414.0	456.5	470.7
22.7	77.5°	28.4	65.2	127.6	178.6	215.5	292.0	277.9	317.6	351.6
17.0	80°	19.8	48.2	99.2	147.4	150.3	187.1	221.2	255.2	277.9
11.3	82.5°	14.2	39.7	73.7	113.4	99.2	144.6	173.0	198.5	144.6
8.5	85°	11.3	28.4	36.9	68.0	56.7	102.1	87.9	85.1	56.7
5.7	87.5°	8.5	14.2	25.5	31.2	22.7	22.7	28.4	34.0	28.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8324.6
8117.7
8174.4
8222.6
8293.5
8438.1
8681.9
9002.3
9353.9
9648.8
9804.7
9626.1
9447.4
9280.2
9104.4
8900.2
8679.1
8440.9
8180.0
7842.6
7394.6
6994.9
6597.9
5582.8
4479.9
3167.1
1633.2
972.5
757.0
618.1
462.2
357.3
280.7
104.9
56.7
28.4
0.0

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