

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: P638546

Luminaire Tested: **IFLD-S-SA6B-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638546
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19548.8 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

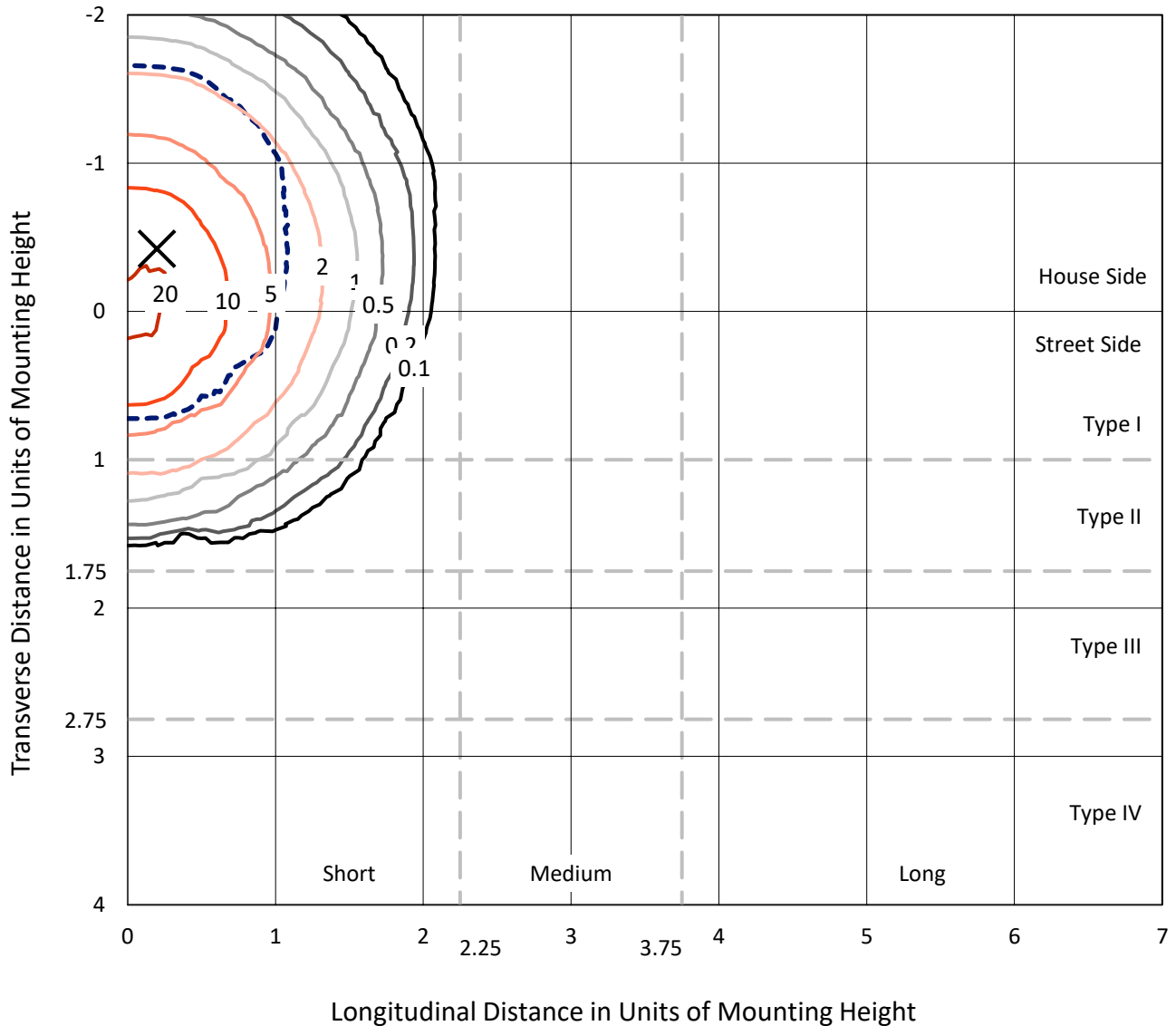
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

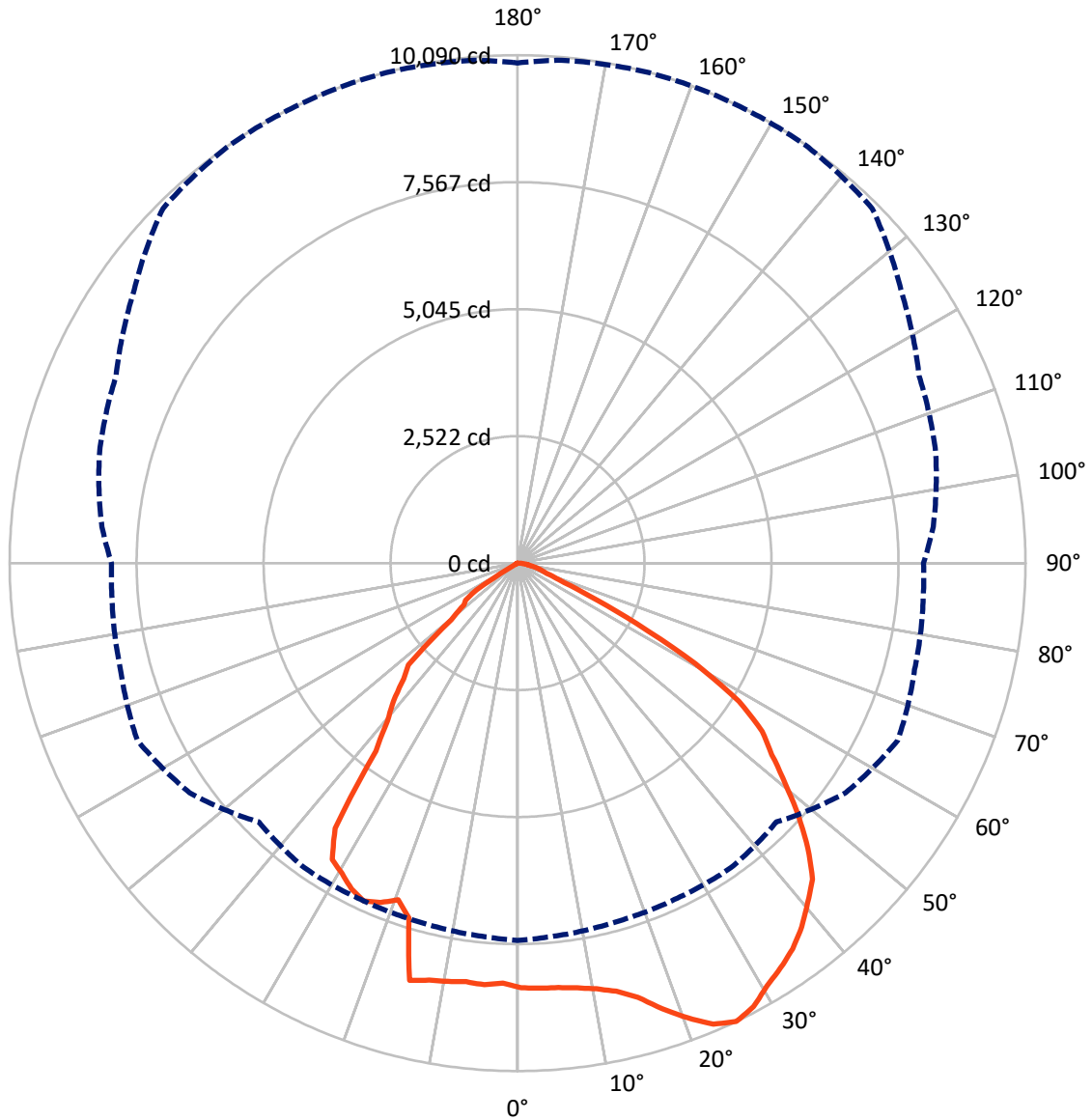
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.1 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	12102.7	0.0	12102.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7446.1	0.0	7446.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	19548.8	0.0	19548.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.2	4.1
10°-20°	2470.9	12.6
20°-30°	3906.4	20.0
30°-40°	4412.6	22.6
40°-50°	4132.5	21.1
50°-60°	2849.1	14.6
60°-70°	765.5	3.9
70°-80°	159.5	0.8
80°-90°	43.1	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°	19548.8	100.0
0°-180°	19548.8	100.0



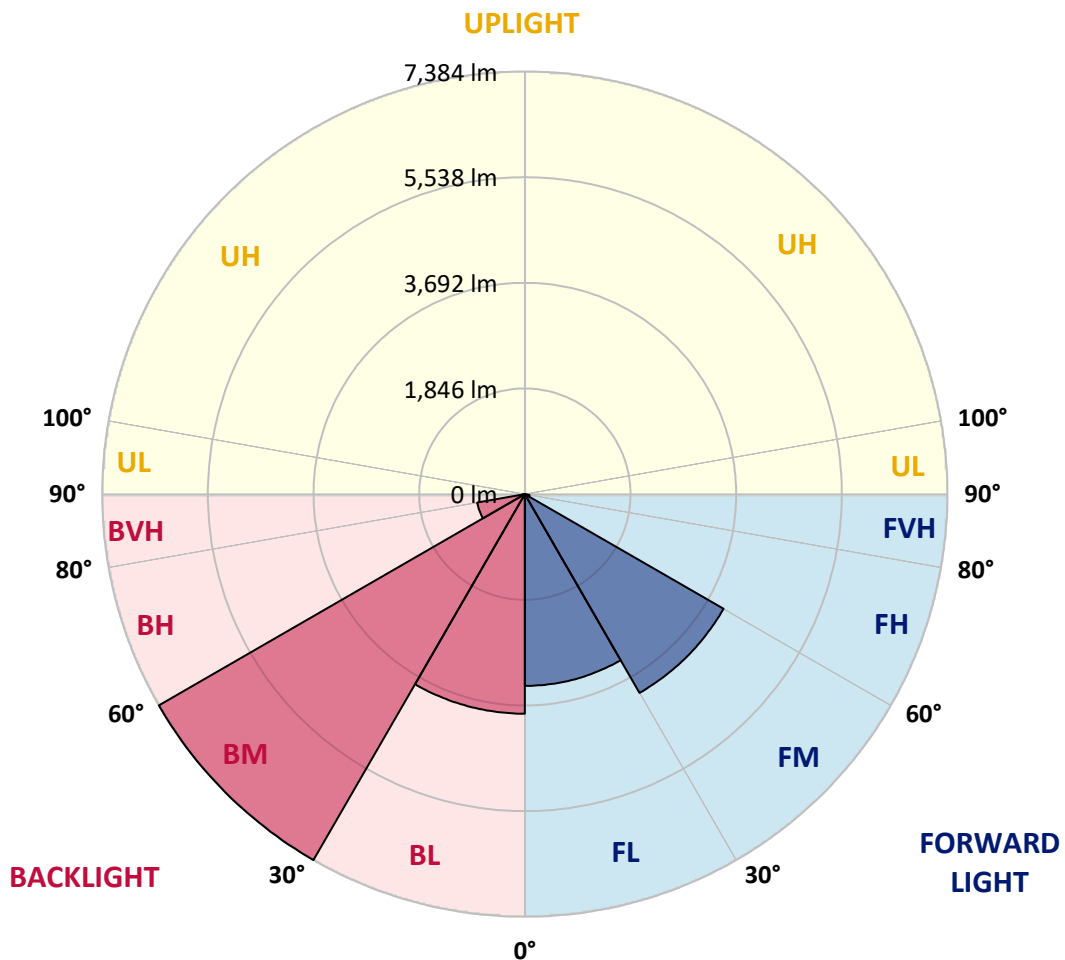
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3350.0	17.1			
FM (30°-60°)	4009.9	20.5			
FH (60°-80°)	80.4	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	3836.5	19.6	B4/5000		
BM (30°-60°)	7384.2	37.8	B4/8500		
BH (60°-80°)	844.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.4	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°	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0
2.5°	8472.3	8417.7	8366.0	8348.8	8420.6	8498.2	8449.3	8452.2	8435.0	8466.6
5°	8535.5	8460.8	8426.3	8400.5	8412.0	8492.4	8423.5	8449.3	8420.6	8457.9
7.5°	8512.5	8460.8	8426.3	8377.5	8414.8	8509.6	8443.6	8446.4	8432.1	8466.6
10°	8498.2	8460.8	8417.7	8423.5	8466.6	8547.0	8495.3	8524.0	8503.9	8524.0
12.5°	8532.6	8492.4	8469.4	8469.4	8506.8	8598.7	8572.9	8598.7	8590.1	8607.3
15°	8208.0	8245.3	8463.7	8561.4	8636.1	8728.0	8716.5	8742.4	8748.1	8774.0
17.5°	6923.8	6886.4	6869.2	7372.0	8707.9	8992.3	8983.7	8980.8	8952.1	8932.0
20°	7093.3	7078.9	7058.8	7096.2	7245.6	9130.2	9187.7	8834.3	8730.9	8722.2
22.5°	7363.3	7340.4	7265.7	7268.5	7314.5	7937.9	8903.2	8581.5	8547.0	8526.9
25°	7495.5	7449.5	7389.2	7372.0	7386.3	7271.4	7952.3	8334.4	8164.9	8087.3
27.5°	7262.8	7265.7	7216.8	7262.8	7208.2	6691.1	6400.9	7851.7	7846.0	7811.5
30°	7087.5	7078.9	7021.5	7078.9	6702.6	6125.1	6001.6	7323.1	7262.8	7216.8
32.5°	6550.3	6556.0	6722.7	6946.8	6329.1	5872.3	5498.8	6541.7	7113.4	7087.5
35°	4685.8	4697.3	5289.1	6395.2	5763.1	5369.5	5340.8	5653.9	6877.8	6889.3
37.5°	4510.5	4510.5	4496.2	4677.1	5317.8	5165.5	5223.0	5191.4	6300.4	6329.1
40°	4384.1	4358.2	4338.1	4053.7	3697.5	5021.9	5062.1	4918.5	5955.6	5961.4
42.5°	4231.8	4203.1	4208.9	3683.1	3309.6	4665.7	4553.6	4361.1	5381.0	5386.8
45°	3953.2	4002.0	4036.5	3223.4	3194.7	3332.6	4200.2	4079.6	4993.2	5099.5
47.5°	2011.1	2054.2	3151.6	2964.9	3031.0	2962.0	3548.1	3551.0	4154.3	4507.6
50°	1824.3	1812.8	1815.7	1729.5	2798.2	2396.0	2565.5	3255.0	3326.9	3832.5
52.5°	1700.8	1697.9	1522.7	1353.2	1758.2	2108.7	1861.7	2355.8	2473.6	3246.4
55°	1258.3	1350.3	1200.9	1272.7	1100.3	1689.3	1680.7	2126.0	2166.2	2602.9
57.5°	11.5	14.4	34.5	968.2	761.3	844.6	1160.7	1450.8	1522.7	2028.3
60°	2.9	5.7	14.4	28.7	494.1	520.0	775.7	838.9	945.2	1209.5
62.5°	0.0	0.0	5.7	14.4	25.9	212.6	247.1	270.1	416.6	617.7
65°	0.0	0.0	2.9	8.6	14.4	34.5	60.3	126.4	181.0	224.1
67.5°	0.0	0.0	2.9	5.7	11.5	17.2	34.5	48.8	77.6	132.2
70°	0.0	0.0	2.9	5.7	8.6	14.4	23.0	34.5	46.0	66.1
72.5°	0.0	0.0	2.9	5.7	5.7	17.2	17.2	25.9	34.5	43.1
75°	0.0	0.0	2.9	2.9	5.7	11.5	17.2	20.1	23.0	34.5
77.5°	0.0	0.0	2.9	5.7	8.6	11.5	14.4	23.0	20.1	20.1
80°	0.0	0.0	2.9	8.6	8.6	14.4	17.2	23.0	14.4	14.4
82.5°	0.0	0.0	2.9	11.5	8.6	28.7	28.7	31.6	11.5	11.5
85°	0.0	0.0	8.6	5.7	17.2	28.7	25.9	17.2	14.4	8.6
87.5°	0.0	0.0	2.9	2.9	5.7	8.6	20.1	17.2	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°
8435.0	0°	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0	8435.0
8383.2	2.5°	8498.2	8460.8	8538.4	8529.8	8492.4	8475.2	8455.1	8437.8	8311.4
8389.0	5°	8501.0	8443.6	8538.4	8521.1	8515.4	8486.7	8469.4	8495.3	8380.4
8412.0	7.5°	8501.0	8443.6	8547.0	8552.7	8544.1	8521.1	8518.3	8535.5	8440.7
8452.2	10°	8558.5	8535.5	8621.7	8630.3	8618.8	8613.1	8598.7	8587.2	8486.7
8590.1	12.5°	8679.2	8633.2	8730.9	8756.7	8748.1	8762.5	8728.0	8745.2	8641.8
8730.9	15°	8825.7	8828.5	8903.2	8960.7	8955.0	9000.9	8949.2	8995.2	8920.5
8891.7	17.5°	9049.8	9081.4	9187.7	9273.8	9305.5	9339.9	9305.5	9319.8	9213.5
8713.6	20°	8814.2	8932.0	9443.4	9601.4	9667.4	9699.0	9641.6	9658.8	9552.5
8495.3	22.5°	8601.6	8753.8	9207.8	9701.9	9905.9	9969.1	9949.0	9946.1	9905.9
8064.3	25°	8288.4	8595.8	8799.8	9322.7	9963.4	10078.3	10089.8	10086.9	10026.6
7800.0	27.5°	7903.5	7972.4	8501.0	8819.9	9561.1	9997.8	9980.6	9897.3	9816.8
7251.3	30°	7412.2	7725.3	7963.8	8472.3	9041.1	9750.8	9750.8	9687.6	9604.2
7055.9	32.5°	7162.2	7567.3	7788.5	7972.4	8457.9	9475.0	9589.9	9523.8	9457.7
6903.7	35°	7030.1	7090.4	7607.5	7774.2	8185.0	8943.5	9408.9	9342.8	9294.0
6498.6	37.5°	6739.9	6880.7	7122.0	7567.3	7693.7	8509.6	9167.6	9133.1	9075.6
5972.8	40°	6093.5	6469.9	6840.5	7262.8	7394.9	7952.3	8874.5	8888.9	8811.3
5412.6	42.5°	5711.4	5967.1	6547.4	6831.9	7188.1	7593.2	8590.1	8613.1	8558.5
5128.2	45°	5263.2	5547.6	5955.6	6472.7	6958.3	7099.0	8087.3	8328.7	8282.7
4562.2	47.5°	4852.4	5082.2	5582.1	6105.0	6642.2	6622.1	7509.9	7963.8	7900.6
4128.4	50°	4269.2	4671.4	4907.0	5386.8	6188.3	6242.9	6895.1	7535.7	7484.0
3507.9	52.5°	3599.8	4105.4	4556.5	4996.0	5728.6	5857.9	6323.3	7099.0	7064.6
2680.5	55°	3145.9	3513.6	4022.1	4375.5	5171.3	5516.0	5895.3	6682.5	6665.2
2203.5	57.5°	2238.0	2947.6	3367.1	3861.2	4280.7	4904.1	5185.7	5834.9	5674.1
1221.0	60°	1516.9	1850.2	2361.6	2893.1	3174.6	3798.0	4059.5	4579.5	4536.4
729.7	62.5°	801.6	1109.0	1473.8	1741.0	1945.0	2551.2	2660.3	3220.6	3206.2
293.0	65°	353.4	468.3	798.7	936.6	1146.3	1427.9	1522.7	1723.8	1674.9
143.6	67.5°	183.9	278.7	451.1	554.5	698.1	804.4	882.0	945.2	985.4
94.8	70°	112.0	204.0	278.7	385.0	479.8	566.0	626.3	712.5	764.2
48.8	72.5°	83.3	129.3	192.5	295.9	347.6	448.2	508.5	571.7	617.7
40.2	75°	46.0	86.2	155.1	232.7	278.7	364.9	419.4	462.5	476.9
23.0	77.5°	28.7	66.1	129.3	181.0	218.3	295.9	281.5	321.8	356.2
17.2	80°	20.1	48.8	100.6	149.4	152.3	189.6	224.1	258.6	281.5
11.5	82.5°	14.4	40.2	74.7	114.9	100.6	146.5	175.2	201.1	146.5
8.6	85°	11.5	28.7	37.3	69.0	57.5	103.4	89.1	86.2	57.5
5.7	87.5°	8.6	14.4	25.9	31.6	23.0	23.0	28.7	34.5	28.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8435.0
8225.2
8282.7
8331.5
8403.3
8549.9
8796.9
9121.6
9477.8
9776.6
9934.6
9753.6
9572.6
9403.1
9225.0
9018.2
8794.1
8552.7
8288.4
7946.6
7492.6
7087.5
6685.3
5656.8
4539.2
3209.1
1654.8
985.4
767.1
626.3
468.3
362.0
284.4
106.3
57.5
28.7
0.0

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