

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: P638378

Luminaire Tested: **IFLD-M-SA4C-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638378
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19081.8 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

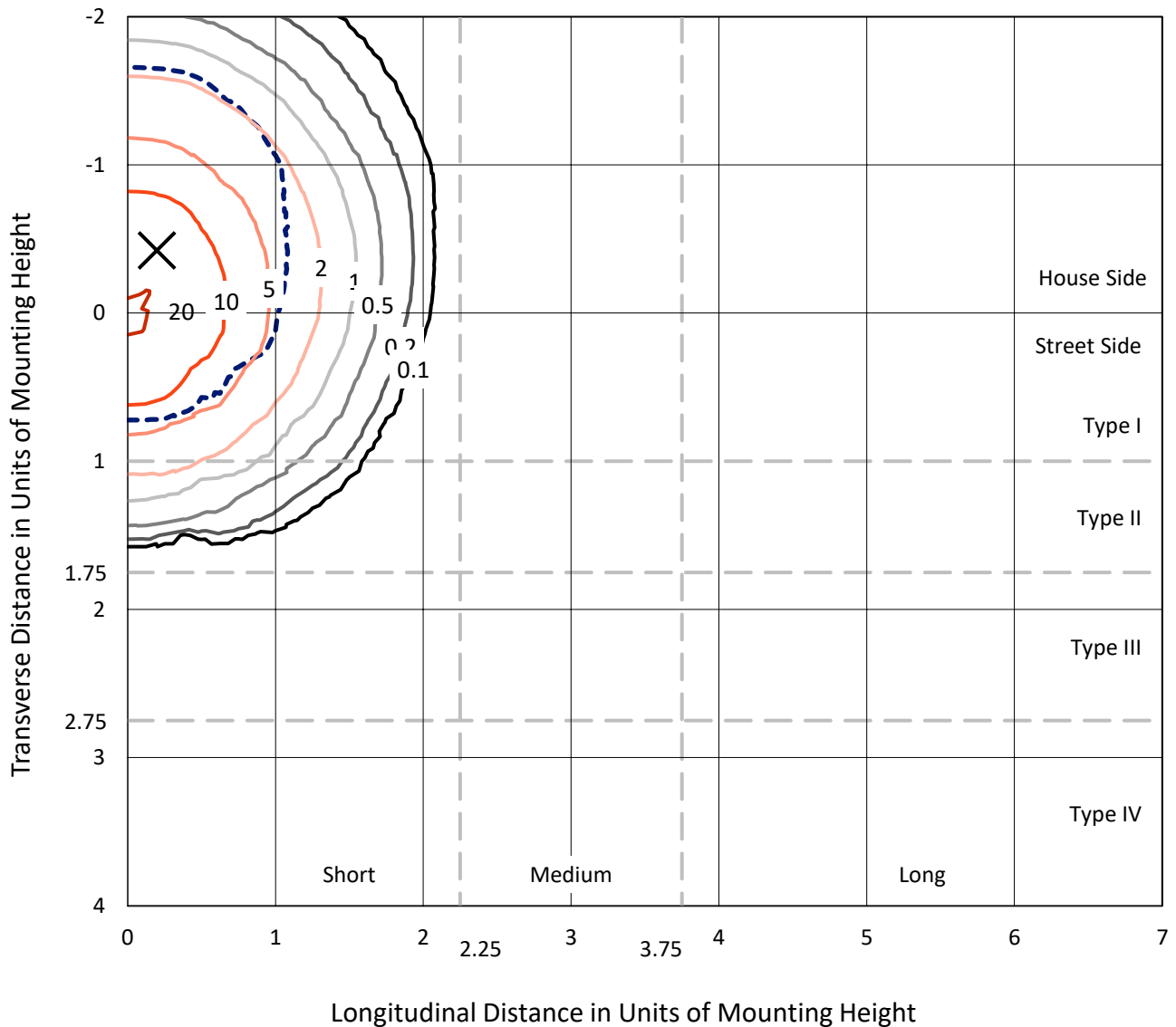
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

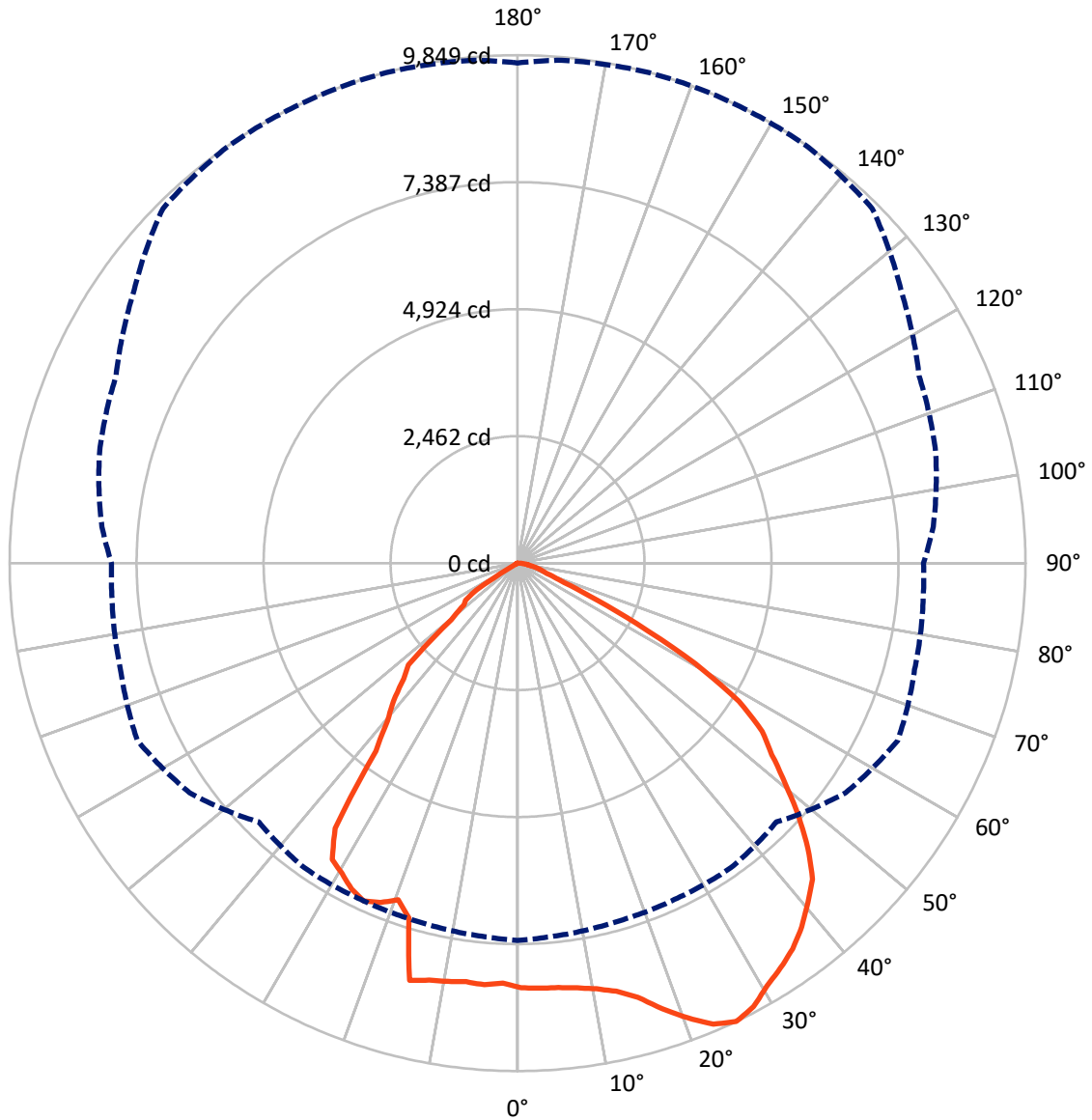
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.6 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	11813.6	0.0	11813.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7268.2	0.0	7268.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	19081.8	0.0	19081.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.9	4.1
10°-20°	2411.9	12.6
20°-30°	3813.1	20.0
30°-40°	4307.2	22.6
40°-50°	4033.8	21.1
50°-60°	2781.0	14.6
60°-70°	747.2	3.9
70°-80°	155.7	0.8
80°-90°	42.1	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°	19081.8	100.0
0°-180°	19081.8	100.0



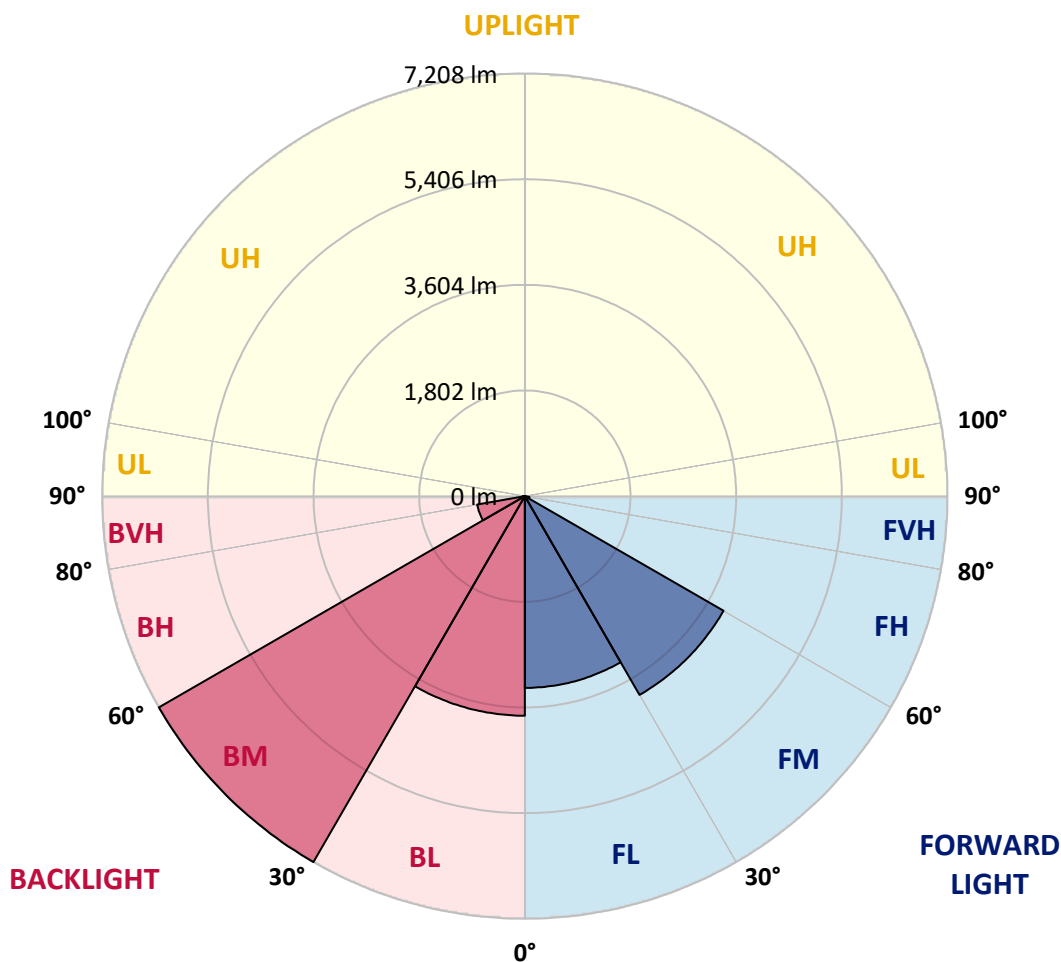
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.0	17.1			
FM (30°-60°)	3914.1	20.5			
FH (60°-80°)	78.4	0.4			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	3744.8	19.6	B4/5000		
BM (30°-60°)	7207.9	37.8	B4/8500		
BH (60°-80°)	824.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.5	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°	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5
2.5°	8269.9	8216.6	8166.2	8149.3	8219.4	8295.1	8247.5	8250.3	8233.5	8264.3
5°	8331.6	8258.7	8225.0	8199.8	8211.0	8289.5	8222.2	8247.5	8219.4	8255.9
7.5°	8309.2	8258.7	8225.0	8177.4	8213.8	8306.4	8241.9	8244.7	8230.7	8264.3
10°	8295.1	8258.7	8216.6	8222.2	8264.3	8342.8	8292.3	8320.4	8300.8	8320.4
12.5°	8328.8	8289.5	8267.1	8267.1	8303.6	8393.3	8368.1	8393.3	8384.9	8401.7
15°	8011.9	8048.4	8261.5	8356.8	8429.8	8519.5	8508.3	8533.5	8539.1	8564.4
17.5°	6758.4	6721.9	6705.1	7195.9	8499.9	8777.5	8769.1	8766.3	8738.2	8718.6
20°	6923.8	6909.8	6890.2	6926.6	7072.5	8912.1	8968.2	8623.3	8522.3	8513.9
22.5°	7187.4	7165.0	7092.1	7094.9	7139.8	7748.3	8690.6	8376.5	8342.8	8323.2
25°	7316.4	7271.6	7212.7	7195.9	7209.9	7097.7	7762.3	8135.3	7969.8	7894.1
27.5°	7089.3	7092.1	7044.4	7089.3	7036.0	6531.2	6248.0	7664.2	7658.6	7624.9
30°	6918.2	6909.8	6853.7	6909.8	6542.5	5978.8	5858.2	7148.2	7089.3	7044.4
32.5°	6393.8	6399.4	6562.1	6780.8	6177.9	5732.0	5367.4	6385.4	6943.5	6918.2
35°	4573.8	4585.0	5162.7	6242.4	5625.4	5241.3	5213.2	5518.9	6713.5	6724.7
37.5°	4402.8	4402.8	4388.7	4565.4	5190.8	5042.1	5098.2	5067.4	6149.9	6177.9
40°	4279.4	4254.1	4234.5	3956.9	3609.1	4901.9	4941.2	4801.0	5813.3	5818.9
42.5°	4130.7	4102.7	4108.3	3595.1	3230.6	4554.2	4444.8	4256.9	5252.5	5258.1
45°	3858.7	3906.4	3940.1	3146.4	3118.4	3253.0	4099.9	3982.1	4873.9	4977.7
47.5°	1963.0	2005.1	3076.3	2894.0	2958.5	2891.2	3463.3	3466.1	4055.0	4400.0
50°	1780.7	1769.5	1772.3	1688.2	2731.4	2338.8	2504.2	3177.3	3247.4	3740.9
52.5°	1660.2	1657.3	1486.3	1320.8	1716.2	2058.4	1817.2	2299.5	2414.5	3168.9
55°	1228.3	1318.0	1172.2	1242.3	1074.1	1648.9	1640.5	2075.2	2114.4	2540.7
57.5°	11.2	14.0	33.7	945.1	743.1	824.5	1132.9	1416.2	1486.3	1979.8
60°	2.8	5.6	14.0	28.0	482.3	507.6	757.2	818.9	922.6	1180.6
62.5°	0.0	0.0	5.6	14.0	25.2	207.5	241.2	263.6	406.6	602.9
65°	0.0	0.0	2.8	8.4	14.0	33.7	58.9	123.4	176.7	218.7
67.5°	0.0	0.0	2.8	5.6	11.2	16.8	33.7	47.7	75.7	129.0
70°	0.0	0.0	2.8	5.6	8.4	14.0	22.4	33.7	44.9	64.5
72.5°	0.0	0.0	2.8	5.6	5.6	16.8	16.8	25.2	33.7	42.1
75°	0.0	0.0	2.8	2.8	5.6	11.2	16.8	19.6	22.4	33.7
77.5°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	22.4	19.6	19.6
80°	0.0	0.0	2.8	8.4	8.4	14.0	16.8	22.4	14.0	14.0
82.5°	0.0	0.0	2.8	11.2	8.4	28.0	28.0	30.8	11.2	11.2
85°	0.0	0.0	8.4	5.6	16.8	28.0	25.2	16.8	14.0	8.4
87.5°	0.0	0.0	2.8	2.8	5.6	8.4	19.6	16.8	5.6	5.6
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°
8233.5	0°	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5	8233.5
8183.0	2.5°	8295.1	8258.7	8334.4	8326.0	8289.5	8272.7	8253.1	8236.3	8112.9
8188.6	5°	8298.0	8241.9	8334.4	8317.6	8312.0	8283.9	8267.1	8292.3	8180.2
8211.0	7.5°	8298.0	8241.9	8342.8	8348.4	8340.0	8317.6	8314.8	8331.6	8239.1
8250.3	10°	8354.0	8331.6	8415.7	8424.1	8412.9	8407.3	8393.3	8382.1	8283.9
8384.9	12.5°	8471.8	8427.0	8522.3	8547.5	8539.1	8553.1	8519.5	8536.3	8435.4
8522.3	15°	8614.8	8617.6	8690.6	8746.6	8741.0	8785.9	8735.4	8780.3	8707.4
8679.3	17.5°	8833.6	8864.4	8968.2	9052.3	9083.2	9116.8	9083.2	9097.2	8993.4
8505.5	20°	8603.6	8718.6	9217.8	9372.0	9436.5	9467.4	9411.3	9428.1	9324.3
8292.3	22.5°	8396.1	8544.7	8987.8	9470.2	9669.3	9731.0	9711.3	9708.5	9669.3
7871.7	25°	8090.4	8390.5	8589.6	9100.0	9725.3	9837.5	9848.7	9845.9	9787.0
7613.7	27.5°	7714.7	7782.0	8298.0	8609.2	9332.7	9759.0	9742.2	9660.8	9582.3
7078.1	30°	7235.1	7540.8	7773.5	8269.9	8825.2	9517.8	9517.8	9456.1	9374.8
6887.4	32.5°	6991.1	7386.6	7602.5	7782.0	8255.9	9248.6	9360.8	9296.3	9231.8
6738.8	35°	6862.1	6921.0	7425.8	7588.5	7989.5	8729.8	9184.1	9119.6	9071.9
6343.3	37.5°	6578.9	6716.3	6951.9	7386.6	7509.9	8306.4	8948.6	8914.9	8858.8
5830.2	40°	5947.9	6315.3	6677.1	7089.3	7218.3	7762.3	8662.5	8676.5	8600.8
5283.3	42.5°	5575.0	5824.6	6391.0	6668.6	7016.4	7411.8	8384.9	8407.3	8354.0
5005.7	45°	5137.5	5415.1	5813.3	6318.1	6792.0	6929.5	7894.1	8129.7	8084.8
4453.2	47.5°	4736.5	4960.8	5448.8	5959.2	6483.6	6463.9	7330.5	7773.5	7711.9
4029.8	50°	4167.2	4559.8	4789.8	5258.1	6040.5	6093.8	6730.3	7355.7	7305.2
3424.1	52.5°	3513.8	4007.4	4447.6	4876.7	5591.8	5718.0	6172.3	6929.5	6895.8
2616.4	55°	3070.7	3429.7	3926.0	4271.0	5047.8	5384.3	5754.4	6522.8	6506.0
2150.9	57.5°	2184.6	2877.2	3286.7	3769.0	4178.4	4787.0	5061.8	5695.6	5538.5
1191.8	60°	1480.7	1806.0	2305.1	2823.9	3098.8	3707.3	3962.5	4470.1	4428.0
712.3	62.5°	782.4	1082.5	1438.6	1699.4	1898.5	2490.2	2596.8	3143.6	3129.6
286.0	65°	344.9	457.1	779.6	914.2	1118.9	1393.7	1486.3	1682.6	1634.9
140.2	67.5°	179.5	272.0	440.3	541.2	681.4	785.2	860.9	922.6	961.9
92.5	70°	109.4	199.1	272.0	375.8	468.3	552.4	611.3	695.5	745.9
47.7	72.5°	81.3	126.2	187.9	288.8	339.3	437.5	496.4	558.1	602.9
39.3	75°	44.9	84.1	151.4	227.1	272.0	356.1	409.4	451.5	465.5
22.4	77.5°	28.0	64.5	126.2	176.7	213.1	288.8	274.8	314.1	347.7
16.8	80°	19.6	47.7	98.2	145.8	148.6	185.1	218.7	252.4	274.8
11.2	82.5°	14.0	39.3	72.9	112.2	98.2	143.0	171.1	196.3	143.0
8.4	85°	11.2	28.0	36.5	67.3	56.1	101.0	86.9	84.1	56.1
5.6	87.5°	8.4	14.0	25.2	30.8	22.4	22.4	28.0	33.7	28.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8233.5
8028.7
8084.8
8132.5
8202.6
8345.6
8586.8
8903.7
9251.4
9543.1
9697.3
9520.6
9344.0
9178.5
9004.6
8802.7
8584.0
8348.4
8090.4
7756.7
7313.6
6918.2
6525.6
5521.7
4430.8
3132.4
1615.3
961.9
748.8
611.3
457.1
353.3
277.6
103.8
56.1
28.0
0.0

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