

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: P638436

Luminaire Tested: **IFLD-M-SA4C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638436
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20955.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

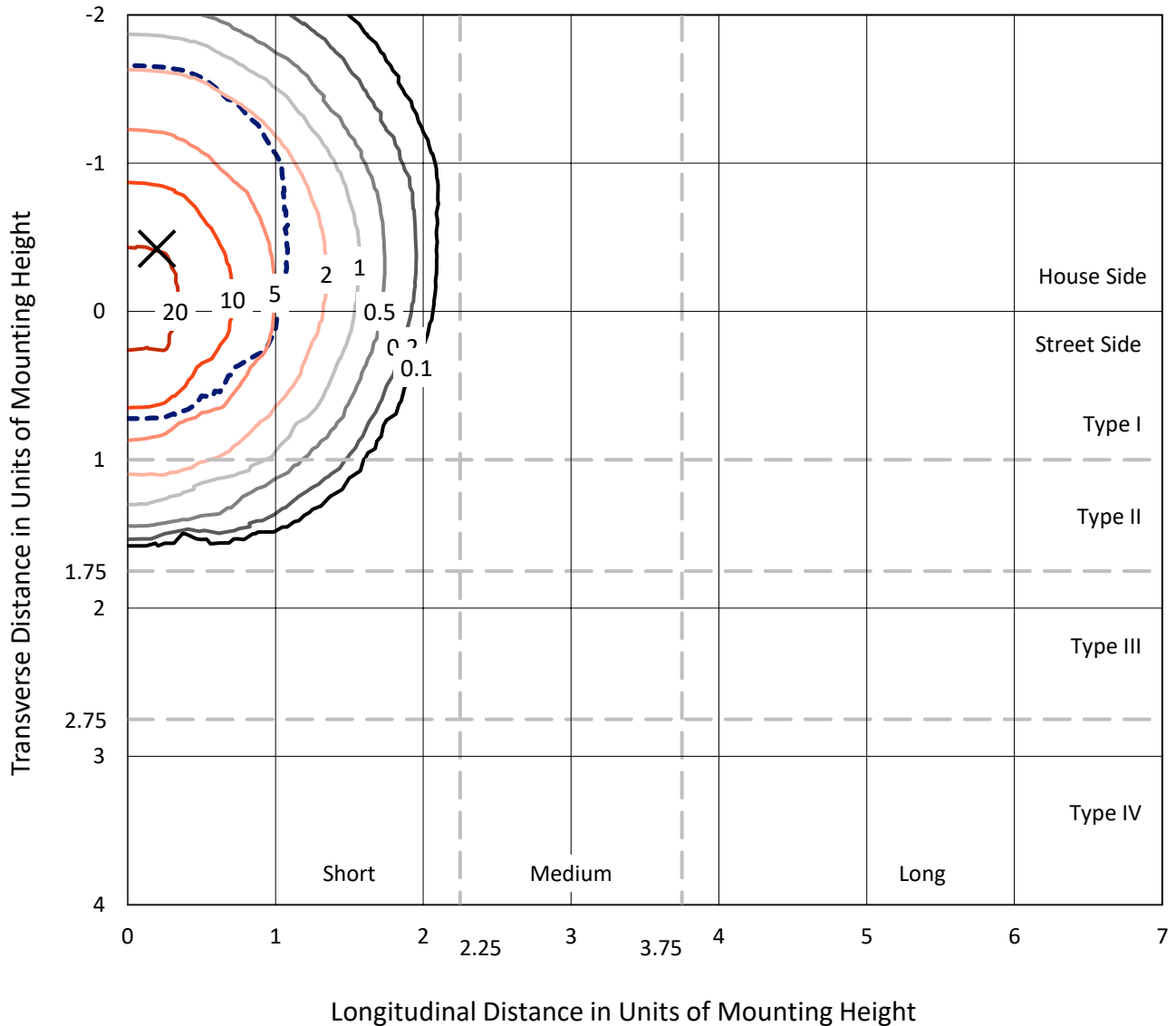
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

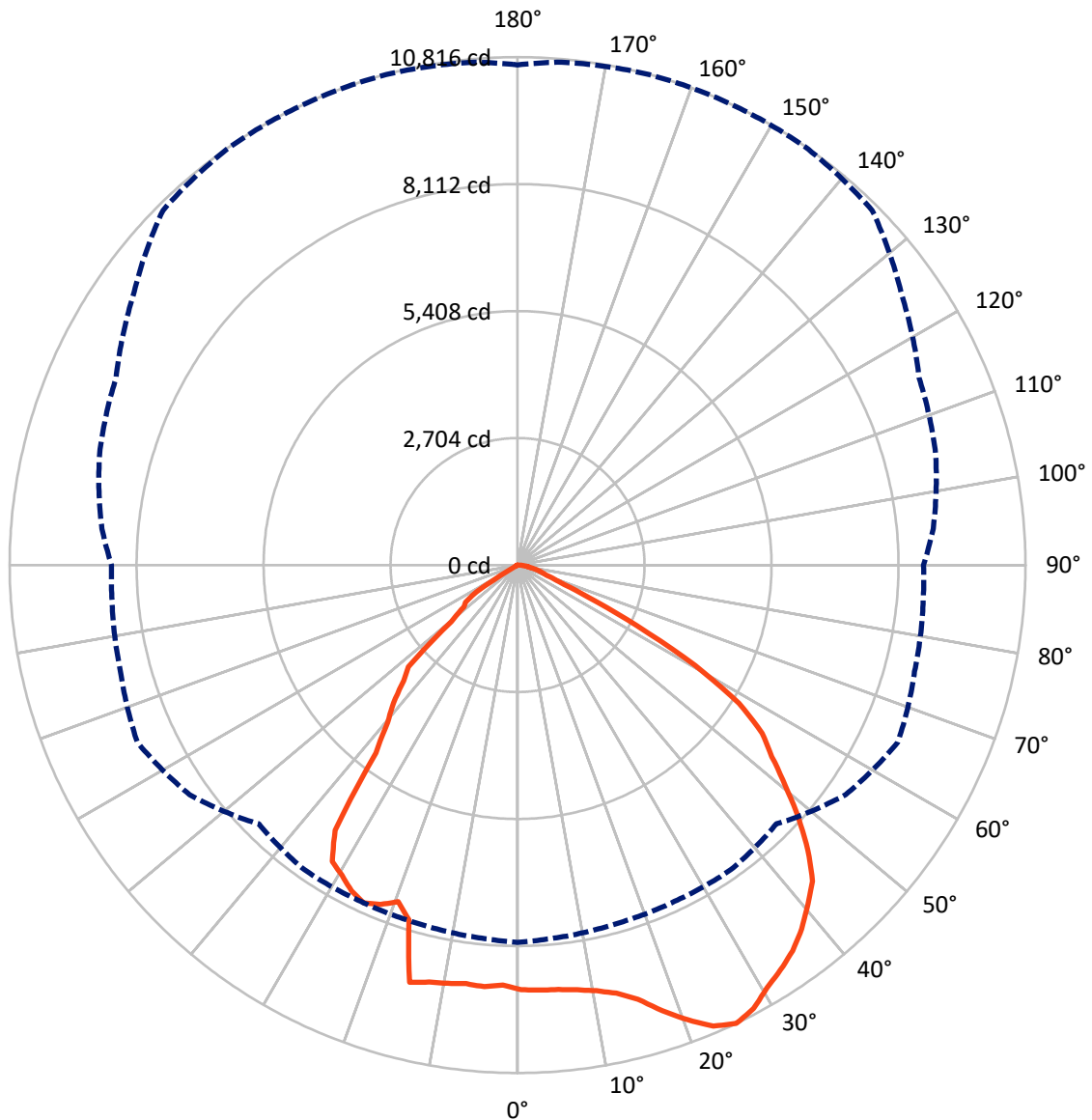
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.6 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	12973.4	0.0	12973.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7981.8	0.0	7981.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	20955.2	0.0	20955.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.4	4.1
10°-20°	2648.7	12.6
20°-30°	4187.4	20.0
30°-40°	4730.1	22.6
40°-50°	4429.8	21.1
50°-60°	3054.0	14.6
60°-70°	820.5	3.9
70°-80°	171.0	0.8
80°-90°	46.3	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°	20955.2	100.0
0°-180°	20955.2	100.0



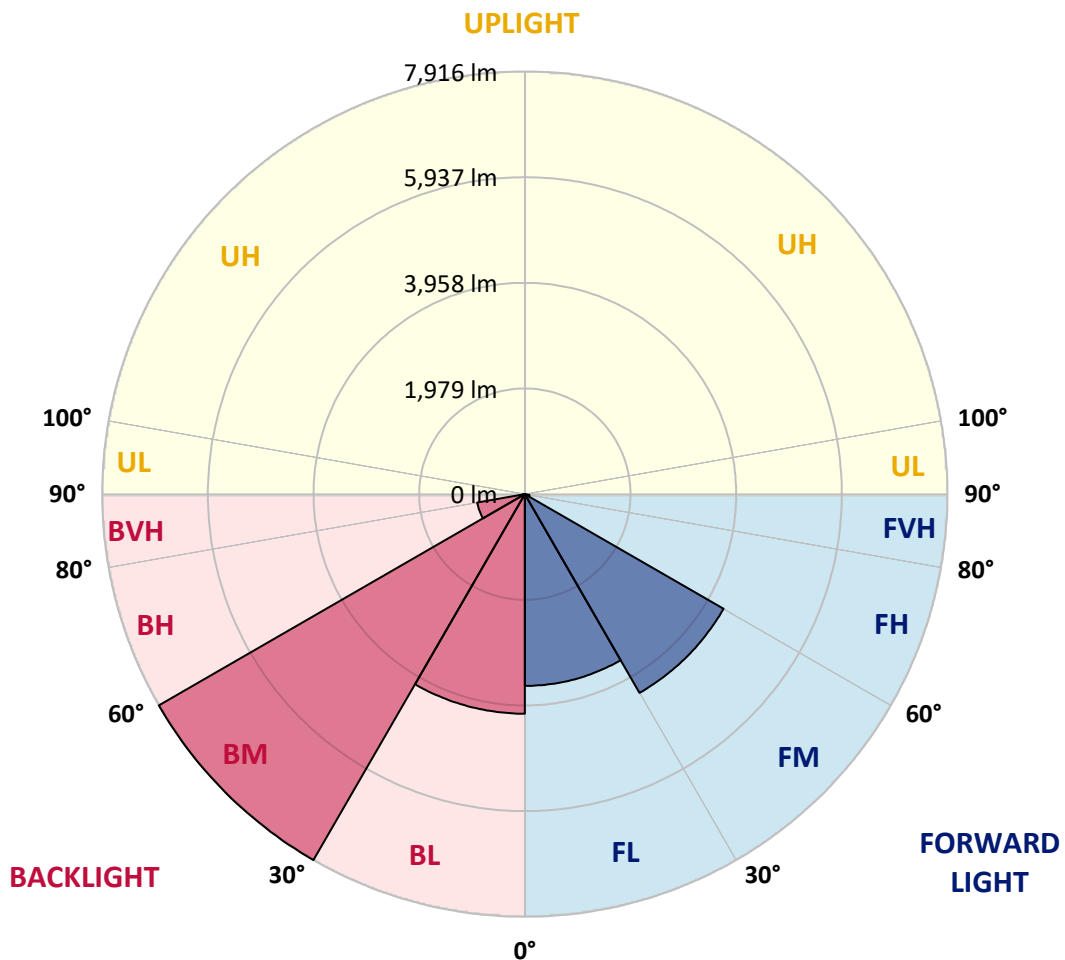
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3591.1	17.1			
FM	(30°-60°)	4298.4	20.5			
FH	(60°-80°)	86.1	0.4			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	4112.5	19.6	B4/5000		
BM	(30°-60°)	7915.5	37.8	B4/8500		
BH	(60°-80°)	905.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	40.1	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°	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8
2.5°	9081.8	9023.3	8967.9	8949.4	9026.4	9109.5	9057.2	9060.3	9041.8	9075.7
5°	9149.6	9069.5	9032.6	9004.8	9017.2	9103.4	9029.5	9057.2	9026.4	9066.4
7.5°	9124.9	9069.5	9032.6	8980.2	9020.2	9121.9	9051.0	9054.1	9038.7	9075.7
10°	9109.5	9069.5	9023.3	9029.5	9075.7	9161.9	9106.5	9137.3	9115.7	9137.3
12.5°	9146.5	9103.4	9078.7	9078.7	9118.8	9217.3	9189.6	9217.3	9208.1	9226.6
15°	8798.5	8838.5	9072.6	9177.3	9257.4	9355.9	9343.6	9371.3	9377.5	9405.2
17.5°	7421.9	7381.9	7363.4	7902.3	9334.4	9639.2	9630.0	9626.9	9596.1	9574.6
20°	7603.6	7588.2	7566.6	7606.7	7766.8	9787.1	9848.7	9469.9	9359.0	9349.8
22.5°	7893.1	7868.5	7788.4	7791.5	7840.7	8509.0	9543.8	9198.9	9161.9	9140.3
25°	8034.8	7985.5	7920.8	7902.3	7917.7	7794.5	8524.4	8934.0	8752.3	8669.2
27.5°	7785.3	7788.4	7736.0	7785.3	7726.8	7172.5	6861.4	8416.6	8410.5	8373.5
30°	7597.4	7588.2	7526.6	7588.2	7184.8	6565.8	6433.3	7850.0	7785.3	7736.0
32.5°	7021.6	7027.7	7206.3	7446.5	6784.4	6294.8	5894.4	7012.3	7625.2	7597.4
35°	5022.9	5035.2	5669.6	6855.3	6177.7	5755.8	5725.0	6060.7	7372.6	7385.0
37.5°	4835.0	4835.0	4819.6	5013.6	5700.4	5537.2	5598.8	5564.9	6753.6	6784.4
40°	4699.5	4671.8	4650.2	4345.4	3963.5	5383.2	5426.3	5272.3	6384.1	6390.2
42.5°	4536.3	4505.5	4511.7	3948.1	3547.7	5001.3	4881.2	4674.9	5768.1	5774.3
45°	4237.6	4289.9	4326.9	3455.3	3424.5	3572.4	4502.4	4373.1	5352.4	5466.3
47.5°	2155.7	2201.9	3378.4	3178.2	3249.0	3175.1	3803.3	3806.4	4453.1	4831.9
50°	1955.6	1943.2	1946.3	1853.9	2999.6	2568.4	2750.1	3489.2	3566.2	4108.2
52.5°	1823.1	1820.1	1632.2	1450.5	1884.7	2260.4	1995.6	2525.3	2651.6	3480.0
55°	1348.9	1447.4	1287.3	1364.3	1179.5	1810.8	1801.6	2278.9	2322.0	2790.1
57.5°	12.3	15.4	37.0	1037.8	816.1	905.4	1244.2	1555.2	1632.2	2174.2
60°	3.1	6.2	15.4	30.8	529.7	557.4	831.5	899.3	1013.2	1296.5
62.5°	0.0	0.0	6.2	15.4	27.7	227.9	264.8	289.5	446.5	662.1
65°	0.0	0.0	3.1	9.2	15.4	37.0	64.7	135.5	194.0	240.2
67.5°	0.0	0.0	3.1	6.2	12.3	18.5	37.0	52.4	83.1	141.7
70°	0.0	0.0	3.1	6.2	9.2	15.4	24.6	37.0	49.3	70.8
72.5°	0.0	0.0	3.1	6.2	6.2	18.5	18.5	27.7	37.0	46.2
75°	0.0	0.0	3.1	3.1	6.2	12.3	18.5	21.6	24.6	37.0
77.5°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	24.6	21.6	21.6
80°	0.0	0.0	3.1	9.2	9.2	15.4	18.5	24.6	15.4	15.4
82.5°	0.0	0.0	3.1	12.3	9.2	30.8	30.8	33.9	12.3	12.3
85°	0.0	0.0	9.2	6.2	18.5	30.8	27.7	18.5	15.4	9.2
87.5°	0.0	0.0	3.1	3.1	6.2	9.2	21.6	18.5	6.2	6.2
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°
9041.8	0°	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8	9041.8
8986.4	2.5°	9109.5	9069.5	9152.7	9143.4	9103.4	9084.9	9063.3	9044.9	8909.4
8992.5	5°	9112.6	9051.0	9152.7	9134.2	9128.0	9097.2	9078.7	9106.5	8983.3
9017.2	7.5°	9112.6	9051.0	9161.9	9168.1	9158.8	9134.2	9131.1	9149.6	9048.0
9060.3	10°	9174.2	9149.6	9242.0	9251.2	9238.9	9232.7	9217.3	9205.0	9097.2
9208.1	12.5°	9303.6	9254.3	9359.0	9386.7	9377.5	9392.9	9355.9	9374.4	9263.5
9359.0	15°	9460.6	9463.7	9543.8	9605.4	9599.2	9648.5	9593.0	9642.3	9562.2
9531.5	17.5°	9700.8	9734.7	9848.7	9941.0	9974.9	10011.9	9974.9	9990.3	9876.4
9340.5	20°	9448.3	9574.6	10122.7	10292.1	10363.0	10396.8	10335.2	10353.7	10239.8
9106.5	22.5°	9220.4	9383.6	9870.2	10399.9	10618.6	10686.3	10664.8	10661.7	10618.6
8644.5	25°	8884.7	9214.3	9432.9	9993.4	10680.2	10803.3	10815.7	10812.6	10747.9
8361.2	27.5°	8472.1	8546.0	9112.6	9454.5	10249.0	10717.1	10698.6	10609.3	10523.1
7773.0	30°	7945.4	8281.1	8536.7	9081.8	9691.6	10452.3	10452.3	10384.5	10295.2
7563.6	32.5°	7677.5	8111.7	8348.9	8546.0	9066.4	10156.6	10279.8	10209.0	10138.1
7400.3	35°	7535.9	7600.5	8154.9	8333.5	8773.9	9586.9	10085.8	10015.0	9962.6
6966.1	37.5°	7224.8	7375.7	7634.4	8111.7	8247.2	9121.9	9827.1	9790.1	9728.5
6402.5	40°	6531.9	6935.3	7332.6	7785.3	7927.0	8524.4	9513.0	9528.4	9445.2
5802.0	42.5°	6122.3	6396.4	7018.5	7323.4	7705.2	8139.5	9208.1	9232.7	9174.2
5497.1	45°	5641.9	5946.8	6384.1	6938.4	7458.9	7609.8	8669.2	8927.8	8878.6
4890.5	47.5°	5201.5	5447.9	5983.7	6544.2	7120.1	7098.5	8050.2	8536.7	8469.0
4425.4	50°	4576.3	5007.5	5260.0	5774.3	6633.5	6692.0	7391.1	8077.9	8022.4
3760.2	52.5°	3858.8	4400.8	4884.3	5355.5	6140.8	6279.4	6778.3	7609.8	7572.8
2873.3	55°	3372.2	3766.4	4311.5	4690.3	5543.3	5912.9	6319.4	7163.2	7144.7
2362.1	57.5°	2399.0	3159.7	3609.3	4139.0	4588.6	5256.9	5558.7	6254.7	6082.3
1308.8	60°	1626.0	1983.3	2531.5	3101.2	3403.0	4071.3	4351.5	4908.9	4862.7
782.2	62.5°	859.2	1188.7	1579.8	1866.3	2084.9	2734.7	2851.7	3452.3	3436.9
314.1	65°	378.8	502.0	856.1	1004.0	1228.8	1530.6	1632.2	1847.8	1795.4
154.0	67.5°	197.1	298.7	483.5	594.4	748.3	862.3	945.4	1013.2	1056.3
101.6	70°	120.1	218.7	298.7	412.7	514.3	606.7	671.4	763.7	819.2
52.4	72.5°	89.3	138.6	206.3	317.2	372.6	480.4	545.1	612.8	662.1
43.1	75°	49.3	92.4	166.3	249.4	298.7	391.1	449.6	495.8	511.2
24.6	77.5°	30.8	70.8	138.6	194.0	234.1	317.2	301.8	344.9	381.9
18.5	80°	21.6	52.4	107.8	160.1	163.2	203.3	240.2	277.2	301.8
12.3	82.5°	15.4	43.1	80.1	123.2	107.8	157.1	187.9	215.6	157.1
9.2	85°	12.3	30.8	40.0	73.9	61.6	110.9	95.5	92.4	61.6
6.2	87.5°	9.2	15.4	27.7	33.9	24.6	24.6	30.8	37.0	30.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9041.8
8817.0
8878.6
8930.9
9007.9
9165.0
9429.8
9777.8
10159.7
10480.0
10649.4
10455.3
10261.3
10079.6
9888.7
9667.0
9426.7
9168.1
8884.7
8518.3
8031.7
7597.4
7166.3
6063.8
4865.8
3439.9
1773.9
1056.3
822.3
671.4
502.0
388.0
304.9
113.9
61.6
30.8
0.0

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