

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: P638393

Luminaire Tested: **IFLD-S-SA2D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11369 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

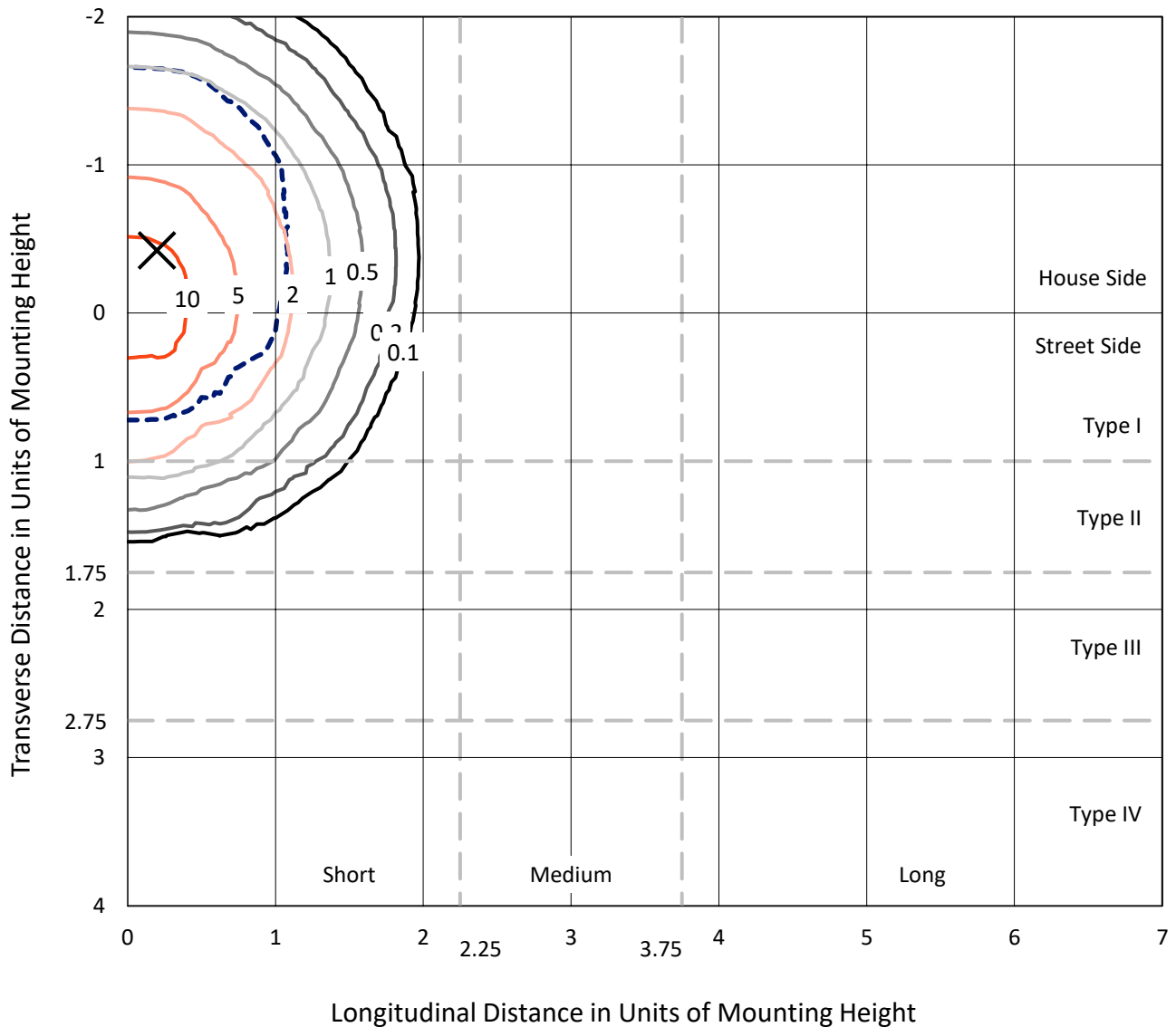
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638393
 CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

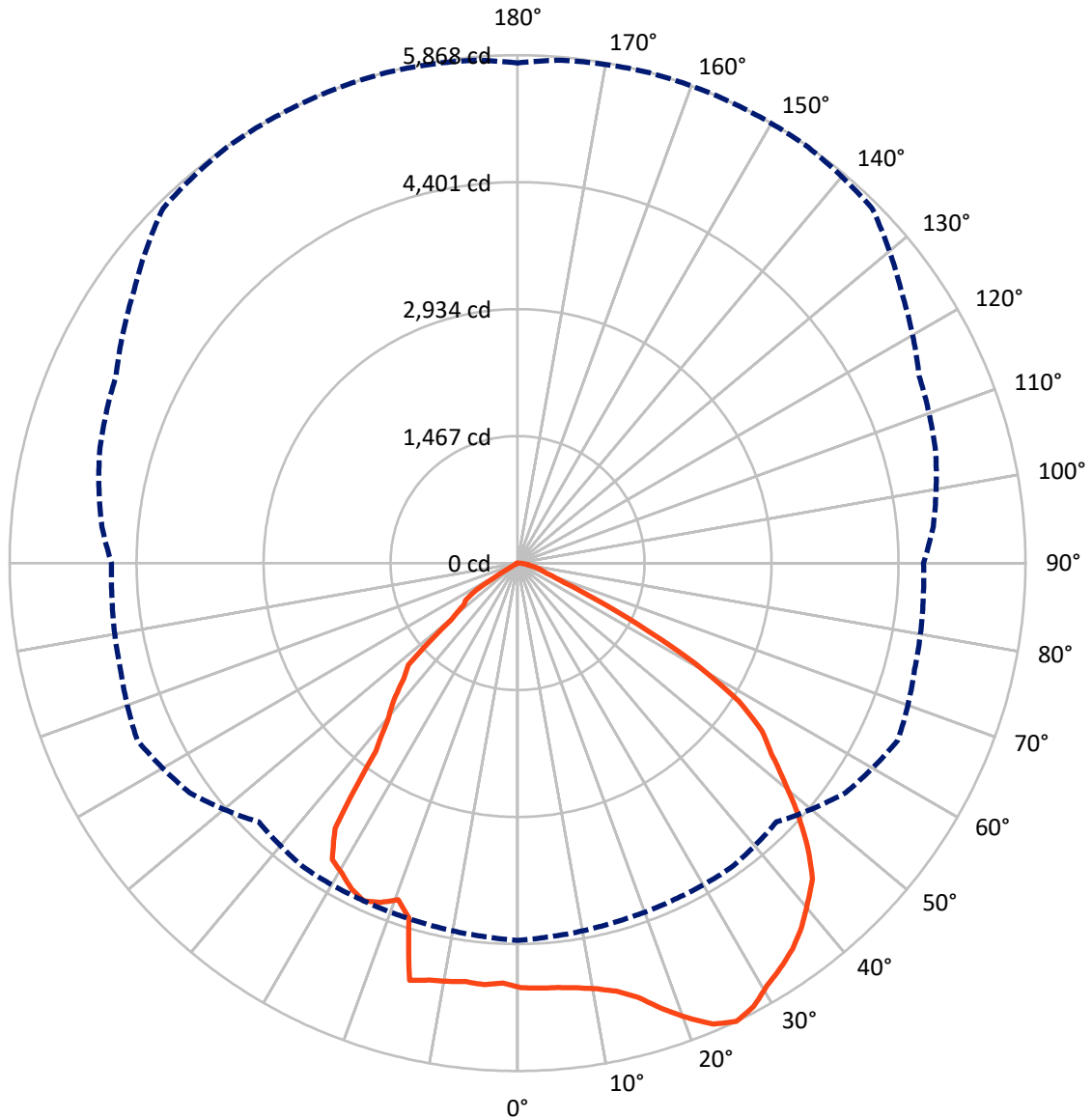
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type I - Short - N/A

REPORT NUMBER: P638393
CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM-VI

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	7038.6	0.0	7038.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4330.4	0.0	4330.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	11369.0	0.0	11369.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	4.1
10°-20°	1437.0	12.6
20°-30°	2271.8	20.0
30°-40°	2566.2	22.6
40°-50°	2403.3	21.1
50°-60°	1656.9	14.6
60°-70°	445.2	3.9
70°-80°	92.8	0.8
80°-90°	25.1	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°	11369.0	100.0
0°-180°	11369.0	100.0



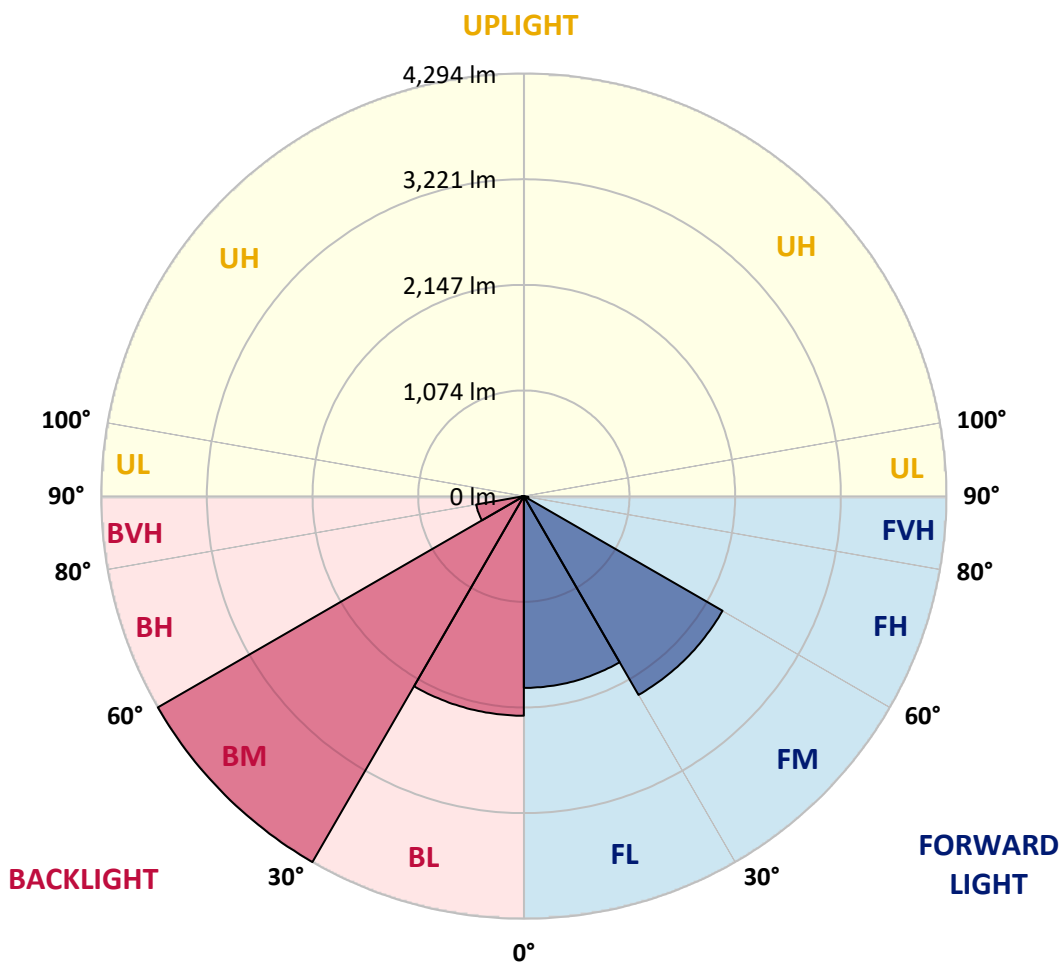
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.3	17.1			
FM (30°-60°)	2332.0	20.5			
FH (60°-80°)	46.7	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2231.2	19.6	B3/2500		
BM (30°-60°)	4294.5	37.8	B3/5000		
BH (60°-80°)	491.2	4.3	B1/500		G1/500
BVH (80°-90°)	21.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P638393
 CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5
2.5°	4927.2	4895.5	4865.4	4855.4	4897.2	4942.3	4913.9	4915.5	4905.5	4923.9
5°	4964.0	4920.6	4900.5	4885.5	4892.1	4938.9	4898.8	4913.9	4897.2	4918.9
7.5°	4950.6	4920.6	4900.5	4872.1	4893.8	4949.0	4910.5	4912.2	4903.8	4923.9
10°	4942.3	4920.6	4895.5	4898.8	4923.9	4970.7	4940.6	4957.3	4945.6	4957.3
12.5°	4962.3	4938.9	4925.6	4925.6	4947.3	5000.8	4985.7	5000.8	4995.7	5005.8
15°	4773.5	4795.2	4922.2	4979.0	5022.5	5075.9	5069.3	5084.3	5087.6	5102.7
17.5°	4026.7	4004.9	3994.9	4287.3	5064.2	5229.7	5224.6	5223.0	5206.3	5194.6
20°	4125.2	4116.9	4105.2	4126.9	4213.8	5309.9	5343.3	5137.8	5077.6	5072.6
22.5°	4282.3	4268.9	4225.5	4227.2	4253.9	4616.5	5177.9	4990.7	4970.7	4959.0
25°	4359.2	4332.4	4297.3	4287.3	4295.7	4228.8	4624.8	4847.0	4748.5	4703.3
27.5°	4223.8	4225.5	4197.1	4223.8	4192.1	3891.3	3722.6	4566.3	4563.0	4542.9
30°	4121.9	4116.9	4083.5	4116.9	3898.0	3562.2	3490.3	4258.9	4223.8	4197.1
32.5°	3809.5	3812.8	3909.7	4040.0	3680.8	3415.1	3197.9	3804.4	4136.9	4121.9
35°	2725.1	2731.8	3076.0	3719.2	3351.7	3122.8	3106.0	3288.2	3999.9	4006.6
37.5°	2623.2	2623.2	2614.8	2720.1	3092.7	3004.1	3037.5	3019.2	3664.1	3680.8
40°	2549.7	2534.6	2522.9	2357.5	2150.3	2920.6	2944.0	2860.4	3463.6	3466.9
42.5°	2461.1	2444.4	2447.7	2142.0	1924.8	2713.4	2648.2	2536.3	3129.4	3132.8
45°	2299.0	2327.4	2347.5	1874.7	1857.9	1938.1	2442.7	2372.6	2903.9	2965.7
47.5°	1169.6	1194.6	1832.9	1724.3	1762.7	1722.6	2063.5	2065.1	2416.0	2621.5
50°	1061.0	1054.3	1056.0	1005.8	1627.4	1393.5	1492.0	1893.0	1934.8	2228.9
52.5°	989.1	987.5	885.5	787.0	1022.5	1226.4	1082.7	1370.1	1438.6	1888.0
55°	731.8	785.3	698.4	740.2	639.9	982.4	977.4	1236.4	1259.8	1513.8
57.5°	6.7	8.4	20.0	563.1	442.8	491.2	675.0	843.8	885.5	1179.6
60°	1.7	3.3	8.4	16.7	287.4	302.4	451.1	487.9	549.7	703.4
62.5°	0.0	0.0	3.3	8.4	15.0	123.6	143.7	157.1	242.3	359.2
65°	0.0	0.0	1.7	5.0	8.4	20.0	35.1	73.5	105.3	130.3
67.5°	0.0	0.0	1.7	3.3	6.7	10.0	20.0	28.4	45.1	76.9
70°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	20.0	26.7	38.4
72.5°	0.0	0.0	1.7	3.3	3.3	10.0	10.0	15.0	20.0	25.1
75°	0.0	0.0	1.7	1.7	3.3	6.7	10.0	11.7	13.4	20.0
77.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	13.4	11.7	11.7
80°	0.0	0.0	1.7	5.0	5.0	8.4	10.0	13.4	8.4	8.4
82.5°	0.0	0.0	1.7	6.7	5.0	16.7	16.7	18.4	6.7	6.7
85°	0.0	0.0	5.0	3.3	10.0	16.7	15.0	10.0	8.4	5.0
87.5°	0.0	0.0	1.7	1.7	3.3	5.0	11.7	10.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638393

CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4905.5	0°	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5
4875.4	2.5°	4942.3	4920.6	4965.7	4960.7	4938.9	4928.9	4917.2	4907.2	4833.7
4878.8	5°	4943.9	4910.5	4965.7	4955.6	4952.3	4935.6	4925.6	4940.6	4873.8
4892.1	7.5°	4943.9	4910.5	4970.7	4974.0	4969.0	4955.6	4954.0	4964.0	4908.9
4915.5	10°	4977.4	4964.0	5014.1	5019.1	5012.4	5009.1	5000.8	4994.1	4935.6
4995.7	12.5°	5047.5	5020.8	5077.6	5092.6	5087.6	5096.0	5075.9	5086.0	5025.8
5077.6	15°	5132.7	5134.4	5177.9	5211.3	5207.9	5234.7	5204.6	5231.3	5187.9
5171.2	17.5°	5263.1	5281.4	5343.3	5393.4	5411.8	5431.8	5411.8	5420.1	5358.3
5067.6	20°	5126.1	5194.6	5492.0	5583.9	5622.3	5640.7	5607.3	5617.3	5555.5
4940.6	22.5°	5002.4	5091.0	5355.0	5642.3	5761.0	5797.7	5786.0	5784.4	5761.0
4690.0	25°	4820.3	4999.1	5117.7	5421.8	5794.4	5861.2	5867.9	5866.2	5831.1
4536.3	27.5°	4596.4	4636.5	4943.9	5129.4	5560.5	5814.4	5804.4	5756.0	5709.2
4217.1	30°	4310.7	4492.8	4631.5	4927.2	5258.1	5670.7	5670.7	5634.0	5585.5
4103.5	32.5°	4165.3	4400.9	4529.6	4636.5	4918.9	5510.3	5577.2	5538.8	5500.3
4015.0	35°	4088.5	4123.6	4424.3	4521.2	4760.2	5201.2	5471.9	5433.5	5405.1
3779.4	37.5°	3919.7	4001.6	4142.0	4400.9	4474.4	4949.0	5331.6	5311.5	5278.1
3473.6	40°	3543.8	3762.7	3978.2	4223.8	4300.7	4624.8	5161.1	5169.5	5124.4
3147.8	42.5°	3321.6	3470.3	3807.8	3973.2	4180.4	4416.0	4995.7	5009.1	4977.4
2982.4	45°	3060.9	3226.3	3463.6	3764.3	4046.7	4128.6	4703.3	4843.7	4817.0
2653.3	47.5°	2822.0	2955.7	3246.4	3550.5	3862.9	3851.2	4367.5	4631.5	4594.7
2401.0	50°	2482.8	2716.7	2853.8	3132.8	3598.9	3630.7	4010.0	4382.5	4352.5
2040.1	52.5°	2093.5	2387.6	2649.9	2905.5	3331.6	3406.8	3677.5	4128.6	4108.5
1558.9	55°	1829.5	2043.4	2339.1	2544.7	3007.5	3208.0	3428.5	3886.3	3876.3
1281.5	57.5°	1301.6	1714.3	1958.2	2245.6	2489.5	2852.1	3015.8	3393.4	3299.9
710.1	60°	882.2	1076.0	1373.4	1682.5	1846.3	2208.8	2360.9	2663.3	2638.2
424.4	62.5°	466.2	644.9	857.1	1012.5	1131.1	1483.7	1547.2	1873.0	1864.6
170.4	65°	205.5	272.3	464.5	544.7	666.7	830.4	885.5	1002.5	974.1
83.5	67.5°	106.9	162.1	262.3	322.5	406.0	467.8	512.9	549.7	573.1
55.1	70°	65.2	118.6	162.1	223.9	279.0	329.2	364.2	414.4	444.4
28.4	72.5°	48.5	75.2	111.9	172.1	202.2	260.6	295.7	332.5	359.2
23.4	75°	26.7	50.1	90.2	135.3	162.1	212.2	243.9	269.0	277.4
13.4	77.5°	16.7	38.4	75.2	105.3	127.0	172.1	163.7	187.1	207.2
10.0	80°	11.7	28.4	58.5	86.9	88.6	110.3	130.3	150.4	163.7
6.7	82.5°	8.4	23.4	43.4	66.8	58.5	85.2	101.9	117.0	85.2
5.0	85°	6.7	16.7	21.7	40.1	33.4	60.1	51.8	50.1	33.4
3.3	87.5°	5.0	8.4	15.0	18.4	13.4	13.4	16.7	20.0	16.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4905.5
4783.5
4817.0
4845.4
4887.1
4972.3
5116.0
5304.8
5512.0
5685.8
5777.7
5672.4
5567.2
5468.6
5365.0
5244.7
5114.4
4974.0
4820.3
4621.5
4357.5
4121.9
3888.0
3289.8
2639.9
1866.3
962.4
573.1
446.1
364.2
272.3
210.5
165.4
61.8
33.4
16.7
0.0

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