

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: P638534

Luminaire Tested: **IFLD-L-SA8D-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30203.8 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

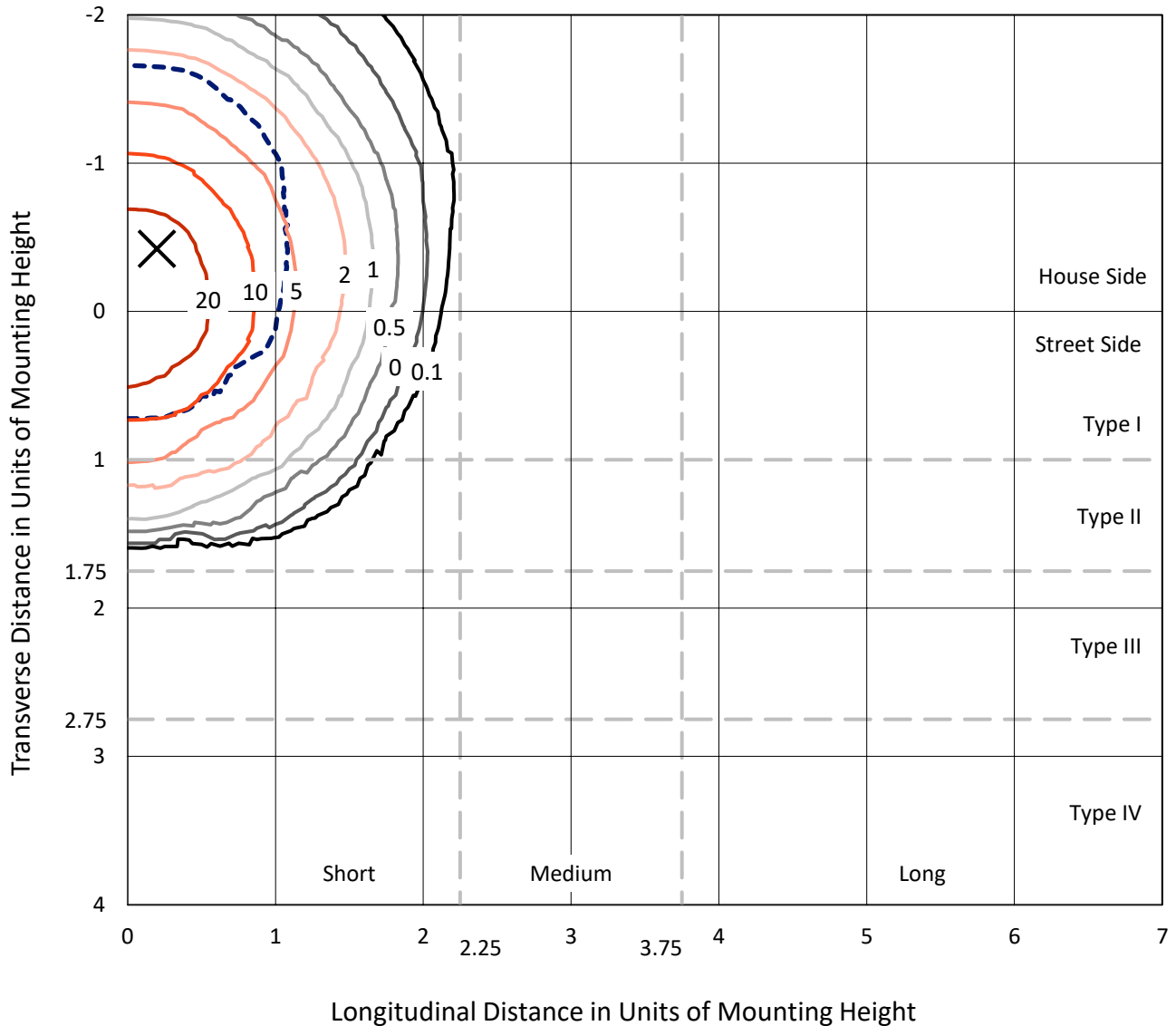
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

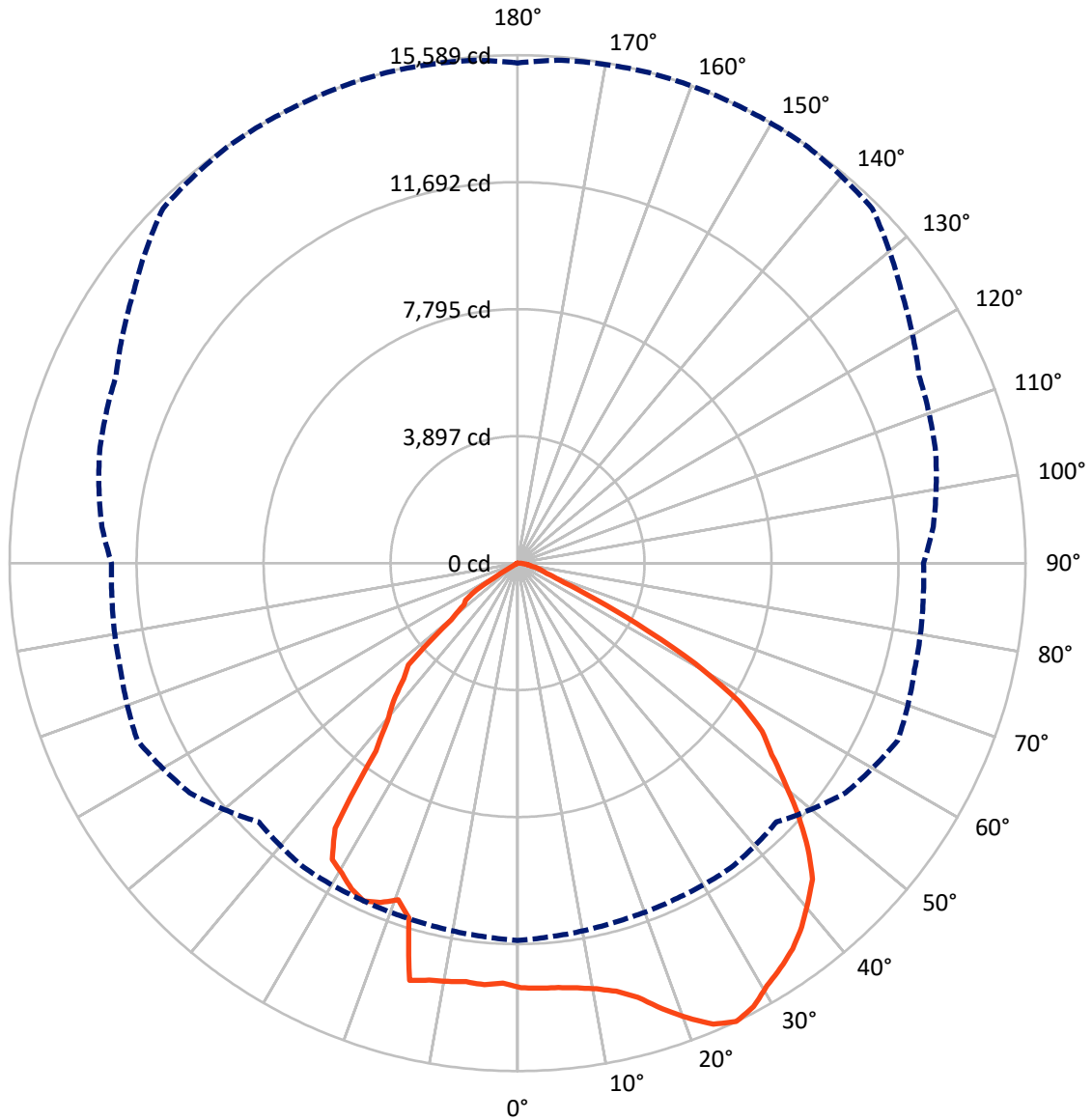
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.6 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	18699.3	0.0	18699.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11504.6	0.0	11504.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	30203.8	0.0	30203.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1250.3	4.1
10°-20°	3817.7	12.6
20°-30°	6035.6	20.0
30°-40°	6817.7	22.6
40°-50°	6384.9	21.1
50°-60°	4401.9	14.6
60°-70°	1182.7	3.9
70°-80°	246.5	0.8
80°-90°	66.7	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°	30203.8	100.0
0°-180°	30203.8	100.0



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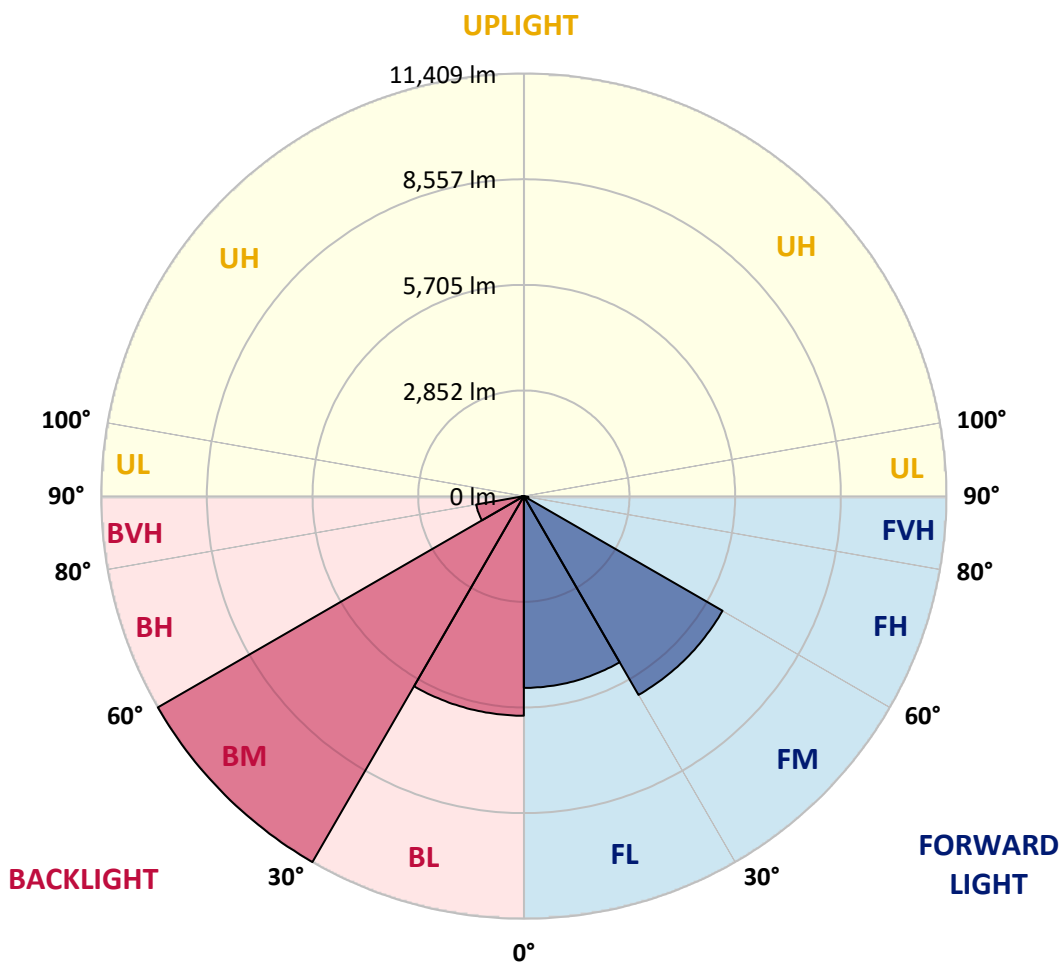
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5176.0	17.1			
FM (30°-60°)	6195.5	20.5			
FH (60°-80°)	124.2	0.4			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	5927.6	19.6	B5		
BM (30°-60°)	11409.0	37.8	B5		
BH (60°-80°)	1305.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4
2.5°	13090.1	13005.8	12925.9	12899.3	13010.2	13130.1	13054.6	13059.0	13032.4	13081.2
5°	13187.8	13072.4	13019.1	12979.1	12996.9	13121.2	13014.7	13054.6	13010.2	13067.9
7.5°	13152.3	13072.4	13019.1	12943.6	13001.3	13147.8	13045.7	13050.2	13028.0	13081.2
10°	13130.1	13072.4	13005.8	13014.7	13081.2	13205.5	13125.6	13170.0	13138.9	13170.0
12.5°	13183.3	13121.2	13085.7	13085.7	13143.4	13285.4	13245.5	13285.4	13272.1	13298.7
15°	12681.7	12739.5	13076.8	13227.7	13343.1	13485.2	13467.4	13507.4	13516.2	13556.2
17.5°	10697.6	10639.9	10613.3	11390.0	13454.1	13893.5	13880.2	13875.8	13831.4	13800.3
20°	10959.5	10937.3	10906.2	10963.9	11194.7	14106.6	14195.4	13649.4	13489.6	13476.3
22.5°	11376.7	11341.2	11225.8	11230.2	11301.3	12264.5	13755.9	13258.8	13205.5	13174.5
25°	11580.9	11509.9	11416.7	11390.0	11412.2	11234.7	12286.7	12877.1	12615.2	12495.3
27.5°	11221.4	11225.8	11150.3	11221.4	11137.0	10338.0	9889.7	12131.3	12122.5	12069.2
30°	10950.6	10937.3	10848.5	10937.3	10355.8	9463.6	9272.7	11314.6	11221.4	11150.3
32.5°	10120.5	10129.4	10386.9	10733.1	9778.8	9073.0	8495.9	10107.2	10990.6	10950.6
35°	7239.7	7257.5	8171.9	9880.8	8904.3	8296.2	8251.8	8735.6	10626.6	10644.3
37.5°	6969.0	6969.0	6946.8	7226.4	8216.3	7981.0	8069.8	8021.0	9734.4	9778.8
40°	6773.7	6733.7	6702.6	6263.2	5712.8	7759.1	7821.2	7599.3	9201.7	9210.6
42.5°	6538.4	6494.0	6502.9	5690.6	5113.5	7208.7	7035.6	6738.1	8313.9	8322.8
45°	6107.8	6183.3	6236.6	4980.4	4936.0	5149.0	6489.6	6303.1	7714.7	7878.9
47.5°	3107.2	3173.8	4869.4	4580.9	4683.0	4576.4	5482.0	5486.4	6418.6	6964.5
50°	2818.7	2800.9	2805.3	2672.2	4323.4	3702.0	3963.9	5029.2	5140.2	5921.4
52.5°	2627.8	2623.4	2352.6	2090.7	2716.6	3258.1	2876.4	3639.8	3821.8	5015.9
55°	1944.2	2086.3	1855.4	1966.4	1700.1	2610.0	2596.7	3284.7	3346.9	4021.6
57.5°	17.8	22.2	53.3	1495.9	1176.3	1305.0	1793.3	2241.6	2352.6	3133.8
60°	4.4	8.9	22.2	44.4	763.5	803.4	1198.5	1296.1	1460.4	1868.7
62.5°	0.0	0.0	8.9	22.2	39.9	328.5	381.7	417.3	643.6	954.3
65°	0.0	0.0	4.4	13.3	22.2	53.3	93.2	195.3	279.6	346.2
67.5°	0.0	0.0	4.4	8.9	17.8	26.6	53.3	75.5	119.8	204.2
70°	0.0	0.0	4.4	8.9	13.3	22.2	35.5	53.3	71.0	102.1
72.5°	0.0	0.0	4.4	8.9	8.9	26.6	26.6	39.9	53.3	66.6
75°	0.0	0.0	4.4	4.4	8.9	17.8	26.6	31.1	35.5	53.3
77.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	35.5	31.1	31.1
80°	0.0	0.0	4.4	13.3	13.3	22.2	26.6	35.5	22.2	22.2
82.5°	0.0	0.0	4.4	17.8	13.3	44.4	44.4	48.8	17.8	17.8
85°	0.0	0.0	13.3	8.9	26.6	44.4	39.9	26.6	22.2	13.3
87.5°	0.0	0.0	4.4	4.4	8.9	13.3	31.1	26.6	8.9	8.9
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°
13032.4	0°	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4	13032.4
12952.5	2.5°	13130.1	13072.4	13192.2	13178.9	13121.2	13094.6	13063.5	13036.9	12841.5
12961.4	5°	13134.5	13045.7	13192.2	13165.6	13156.7	13112.3	13085.7	13125.6	12948.1
12996.9	7.5°	13134.5	13045.7	13205.5	13214.4	13201.1	13165.6	13161.1	13187.8	13041.3
13059.0	10°	13223.3	13187.8	13320.9	13334.3	13316.5	13307.6	13285.4	13267.7	13112.3
13272.1	12.5°	13409.7	13338.7	13489.6	13529.6	13516.2	13538.4	13485.2	13511.8	13352.0
13489.6	15°	13636.1	13640.5	13755.9	13844.7	13835.8	13906.9	13827.0	13898.0	13782.6
13738.2	17.5°	13982.3	14031.2	14195.4	14328.6	14377.4	14430.6	14377.4	14399.6	14235.3
13463.0	20°	13618.3	13800.3	14590.4	14834.6	14936.7	14985.5	14896.7	14923.4	14759.1
13125.6	22.5°	13289.9	13525.1	14226.5	14989.9	15305.1	15402.8	15371.7	15367.2	15305.1
12459.8	25°	12806.0	13281.0	13596.1	14404.0	15393.9	15571.4	15589.2	15584.7	15491.5
12051.4	27.5°	12211.2	12317.8	13134.5	13627.2	14772.4	15447.1	15420.5	15291.8	15167.5
11203.6	30°	11452.2	11936.0	12304.4	13090.1	13969.0	15065.4	15065.4	14967.7	14839.0
10901.8	32.5°	11066.0	11691.9	12033.7	12317.8	13067.9	14639.3	14816.8	14714.7	14612.6
10666.5	35°	10861.8	10955.0	11754.0	12011.5	12646.2	13818.1	14537.2	14435.1	14359.6
10040.6	37.5°	10413.5	10631.0	11003.9	11691.9	11887.2	13147.8	14164.3	14111.1	14022.3
9228.3	40°	9414.8	9996.3	10568.9	11221.4	11425.6	12286.7	13711.6	13733.8	13613.9
8362.8	42.5°	8824.4	9219.5	10116.1	10555.5	11106.0	11731.8	13272.1	13307.6	13223.3
7923.3	45°	8131.9	8571.4	9201.7	10000.7	10750.9	10968.4	12495.3	12868.2	12797.2
7048.9	47.5°	7497.2	7852.3	8624.7	9432.5	10262.6	10231.5	11603.1	12304.4	12206.8
6378.6	50°	6596.1	7217.5	7581.5	8322.8	9561.2	9645.6	10653.2	11643.1	11563.2
5419.8	52.5°	5561.9	6343.1	7040.0	7719.1	8851.0	9050.8	9769.9	10968.4	10915.1
4141.4	55°	4860.5	5428.7	6214.4	6760.3	7989.9	8522.6	9108.5	10324.7	10298.1
3404.6	57.5°	3457.9	4554.2	5202.3	5965.8	6613.9	7577.1	8012.1	9015.3	8766.7
1886.5	60°	2343.7	2858.6	3648.7	4469.9	4904.9	5868.1	6272.1	7075.5	7008.9
1127.5	62.5°	1238.4	1713.4	2277.1	2689.9	3005.1	3941.7	4110.4	4975.9	4953.7
452.8	65°	546.0	723.5	1234.0	1447.1	1771.1	2206.1	2352.6	2663.3	2587.8
221.9	67.5°	284.1	430.6	696.9	856.7	1078.6	1242.9	1362.7	1460.4	1522.5
146.5	70°	173.1	315.2	430.6	594.8	741.3	874.5	967.7	1100.8	1180.7
75.5	72.5°	128.7	199.7	297.4	457.2	537.1	692.5	785.7	883.3	954.3
62.1	75°	71.0	133.2	239.7	359.5	430.6	563.7	648.1	714.7	736.8
35.5	77.5°	44.4	102.1	199.7	279.6	337.4	457.2	435.0	497.1	550.4
26.6	80°	31.1	75.5	155.4	230.8	235.3	293.0	346.2	399.5	435.0
17.8	82.5°	22.2	62.1	115.4	177.6	155.4	226.4	270.8	310.7	226.4
13.3	85°	17.8	44.4	57.7	106.5	88.8	159.8	137.6	133.2	88.8
8.9	87.5°	13.3	22.2	39.9	48.8	35.5	35.5	44.4	53.3	44.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13032.4
12708.4
12797.2
12872.6
12983.6
13210.0
13591.7
14093.3
14643.7
15105.4
15349.5
15069.8
14790.2
14528.3
14253.1
13933.5
13587.3
13214.4
12806.0
12277.8
11576.5
10950.6
10329.2
8740.1
7013.4
4958.2
2556.8
1522.5
1185.2
967.7
723.5
559.3
439.4
164.2
88.8
44.4
0.0

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