

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: P637871

Luminaire Tested: **IFLD-S-SA2D-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637871
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13006.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

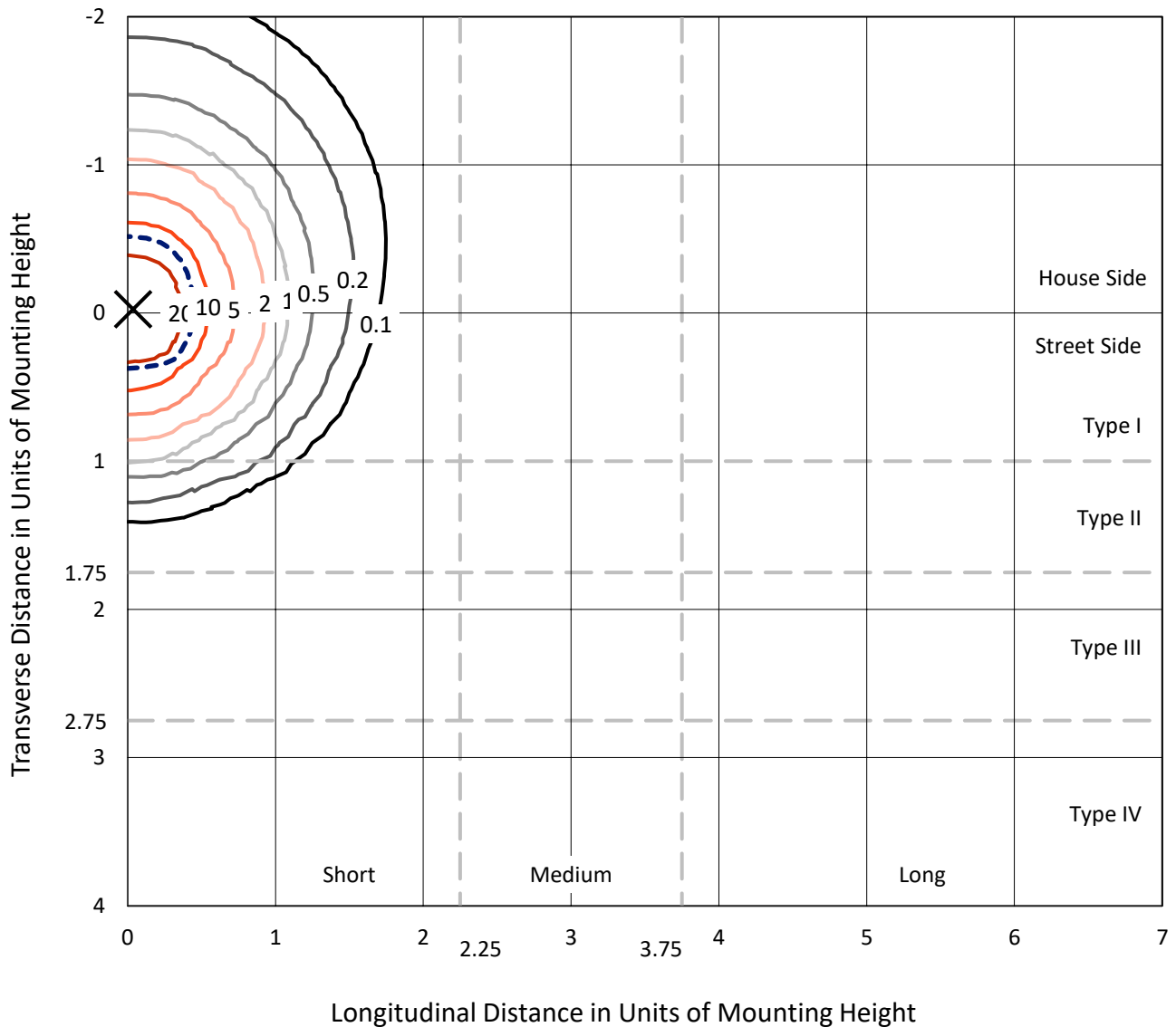
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

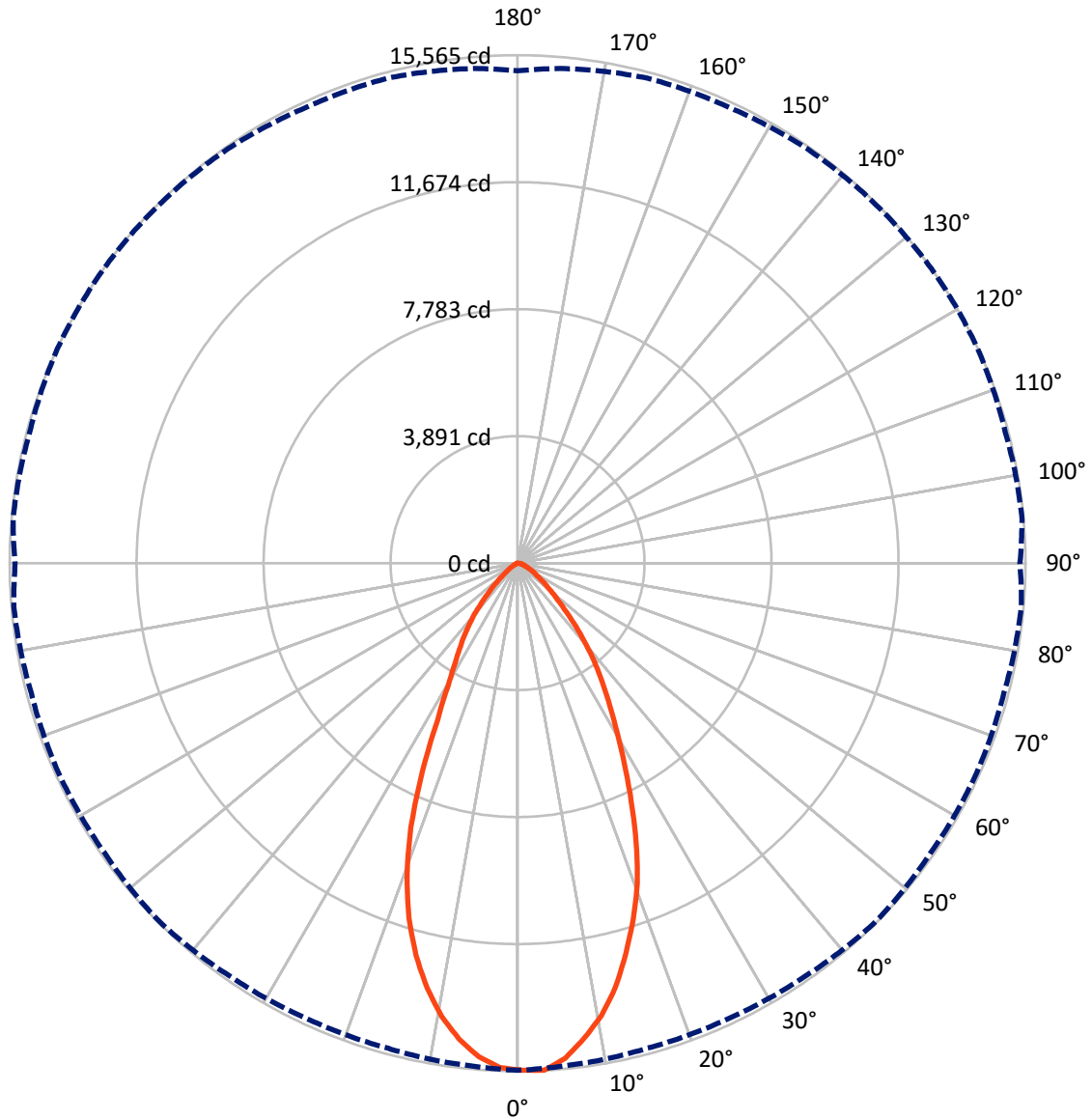
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7380.6	0.0	7380.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5626.2	0.0	5626.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	13006.8	0.0	13006.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1411.1	10.8
10°-20°	3363.7	25.9
20°-30°	3425.9	26.3
30°-40°	2554.7	19.6
40°-50°	1334.6	10.3
50°-60°	561.3	4.3
60°-70°	229.3	1.8
70°-80°	96.5	0.7
80°-90°	29.7	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°	13006.8	100.0
0°-180°	13006.8	100.0



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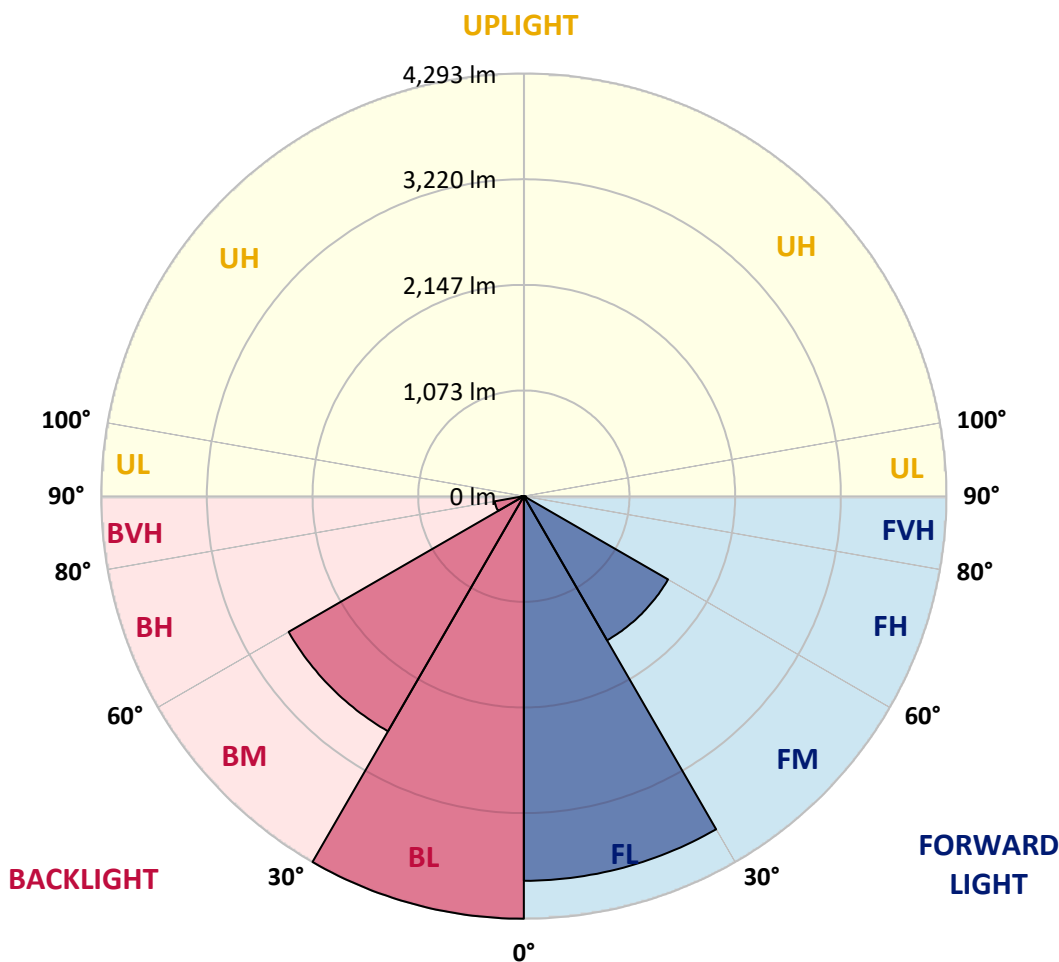
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3907.4	30.0			
FM	(30°-60°)	1691.6	13.0			
FH	(60°-80°)	24.5	0.2			G0/660
FVH	(80°-90°)	2.8	0.0			G0/10
BL	(0°-30°)	4293.3	33.0	B4/5000		
BM	(30°-60°)	2759.1	21.2	B3/5000		
BH	(60°-80°)	301.3	2.3	B1/500		G1/500
BVH	(80°-90°)	27.0	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9
2.5°	15541.6	15478.1	15387.9	15379.5	15426.3	15528.2	15463.1	15466.4	15426.3	15494.8
5°	15297.7	15237.5	15175.7	15093.8	15162.3	15205.8	15172.4	15135.6	15083.8	15150.6
7.5°	14836.5	14803.1	14711.2	14674.5	14716.2	14764.7	14692.9	14682.8	14611.0	14697.9
10°	14131.5	14118.1	14027.9	14006.2	14042.9	14116.4	14084.7	14078.0	14032.9	14024.5
12.5°	13399.7	13347.9	13235.9	13229.3	13284.4	13394.7	13309.4	13227.6	13252.6	13274.4
15°	11515.0	11459.9	11737.2	12173.3	12402.2	12393.9	12418.9	12320.3	12290.3	12300.3
17.5°	9154.2	9060.6	9160.9	9835.9	10923.6	11555.1	11381.4	11169.2	11055.6	10980.4
20°	7901.1	7906.1	7887.8	8061.5	8739.9	10180.1	10138.3	9729.0	9580.3	9518.4
22.5°	7139.3	7110.8	7070.7	7125.9	7308.0	8153.4	8719.8	8343.9	8292.1	8223.6
25°	6392.4	6392.4	6344.0	6399.1	6450.9	6462.6	7030.6	7184.4	7084.1	7084.1
27.5°	5745.8	5712.4	5690.7	5715.7	5647.2	5318.1	5389.9	6176.9	6108.4	6066.6
30°	5104.2	5094.2	5057.5	5090.9	4836.9	4466.0	4315.6	5212.8	5284.7	5269.6
32.5°	4213.7	4253.8	4417.5	4469.3	4034.9	3735.9	3592.2	4327.3	4614.7	4603.0
35°	2863.7	2897.1	3084.3	3702.5	3344.9	3131.0	3089.3	3441.8	3914.6	3959.8
37.5°	2280.6	2275.6	2329.1	2439.3	2688.3	2636.5	2624.8	2716.7	3192.9	3212.9
40°	1879.6	1872.9	1871.3	1781.1	1719.2	2192.1	2160.3	2105.2	2517.9	2558.0
42.5°	1515.4	1522.1	1527.1	1329.9	1239.7	1690.8	1672.5	1615.6	1974.9	2021.6
45°	1189.6	1187.9	1198.0	990.8	965.7	1081.0	1249.7	1204.6	1490.3	1540.5
47.5°	616.5	638.2	773.6	766.9	778.6	766.9	945.7	934.0	1121.1	1201.3
50°	414.4	421.0	432.7	434.4	613.2	564.7	641.6	726.8	785.3	908.9
52.5°	320.8	325.8	295.7	277.3	375.9	417.7	421.0	502.9	548.0	673.3
55°	178.8	200.5	215.5	217.2	207.2	309.1	307.4	372.6	407.7	491.2
57.5°	23.4	28.4	43.4	140.3	138.7	172.1	215.5	270.7	290.7	359.2
60°	1.7	3.3	5.0	21.7	91.9	100.2	147.0	168.7	202.2	252.3
62.5°	0.0	0.0	1.7	5.0	18.4	58.5	76.9	88.6	118.6	165.4
65°	0.0	0.0	1.7	3.3	6.7	21.7	30.1	48.5	70.2	101.9
67.5°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	21.7	36.8	61.8
70°	0.0	0.0	1.7	3.3	5.0	6.7	10.0	13.4	20.0	33.4
72.5°	0.0	0.0	1.7	1.7	3.3	8.4	8.4	10.0	13.4	18.4
75°	0.0	0.0	1.7	3.3	5.0	8.4	8.4	8.4	10.0	11.7
77.5°	0.0	0.0	1.7	3.3	5.0	8.4	6.7	8.4	8.4	8.4
80°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	8.4	6.7	6.7
82.5°	0.0	0.0	1.7	5.0	5.0	11.7	11.7	11.7	5.0	5.0
85°	0.0	0.0	3.3	5.0	8.4	13.4	13.4	10.0	5.0	3.3
87.5°	0.0	0.0	1.7	3.3	3.3	6.7	10.0	8.4	3.3	1.7
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°
15539.9	0°	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9	15539.9
15394.6	2.5°	15518.2	15476.5	15555.0	15565.0	15531.6	15489.8	15392.9	15384.6	15215.8
15053.7	5°	15224.2	15155.7	15205.8	15239.2	15227.5	15182.4	15142.3	15105.5	14953.5
14500.7	7.5°	14676.1	14651.1	14674.5	14699.5	14748.0	14699.5	14682.8	14644.4	14494.0
13956.0	10°	14068.0	14021.2	14109.8	14098.1	14084.7	14071.3	14001.2	14007.8	13830.7
13214.2	12.5°	13321.1	13242.6	13327.8	13337.9	13327.8	13281.0	13202.5	13235.9	13073.9
12211.7	15°	12317.0	12308.6	12370.5	12410.6	12439.0	12388.8	12362.1	12378.8	12281.9
10921.9	17.5°	11084.0	11192.6	11394.7	11463.2	11464.9	11516.7	11501.7	11481.6	11409.8
9493.4	20°	9633.7	9842.6	10153.3	10472.5	10564.4	10520.9	10500.9	10537.6	10430.7
8151.7	22.5°	8295.4	8474.2	8835.1	9301.2	9570.2	9597.0	9592.0	9560.2	9518.4
7077.4	25°	7159.3	7318.0	7663.9	8089.9	8606.2	8683.1	8686.4	8676.4	8639.6
6103.4	27.5°	6200.3	6392.4	6582.9	6963.8	7513.5	7831.0	7790.9	7779.2	7765.8
5281.3	30°	5331.5	5573.7	5752.5	5989.8	6482.6	6912.0	6953.8	6933.7	6902.0
4601.3	32.5°	4643.1	4786.8	5014.0	5174.4	5528.6	6014.8	6175.2	6160.2	6131.8
3988.2	35°	4045.0	4101.8	4280.5	4459.3	4694.9	5166.1	5403.3	5369.9	5364.9
3249.7	37.5°	3331.5	3522.0	3620.6	3801.0	3966.4	4332.3	4659.8	4644.8	4646.4
2613.1	40°	2690.0	2800.2	2995.7	3147.8	3299.8	3567.1	3931.3	3941.4	3938.0
2023.3	42.5°	2065.1	2172.0	2377.5	2542.9	2678.3	2843.7	3191.2	3202.9	3217.9
1575.5	45°	1612.3	1680.8	1831.2	2003.3	2147.0	2247.2	2511.2	2586.4	2588.0
1221.3	47.5°	1251.4	1329.9	1436.9	1602.3	1742.6	1814.5	2006.6	2108.5	2103.5
937.3	50°	982.4	1054.3	1141.1	1271.5	1423.5	1480.3	1622.3	1722.6	1717.6
706.7	52.5°	751.9	843.7	920.6	1020.8	1169.5	1218.0	1319.9	1435.2	1418.5
517.9	55°	569.7	663.3	735.1	818.7	954.0	1015.8	1086.0	1177.9	1181.2
401.0	57.5°	429.4	526.3	591.5	676.7	778.6	847.1	900.6	999.1	997.5
274.0	60°	307.4	391.0	469.5	558.0	636.6	715.1	751.9	845.4	848.8
193.8	62.5°	222.2	300.7	375.9	452.8	523.0	599.8	633.2	706.7	716.8
127.0	65°	155.4	210.5	297.4	355.9	434.4	491.2	534.7	598.1	609.8
75.2	67.5°	100.2	152.0	235.6	287.4	359.2	407.7	452.8	502.9	517.9
48.5	70°	60.1	115.3	175.4	230.6	295.7	339.2	382.6	426.0	434.4
23.4	72.5°	38.4	80.2	127.0	187.1	237.3	284.0	322.5	354.2	329.1
15.0	75°	21.7	55.1	100.2	147.0	192.1	237.3	269.0	285.7	228.9
10.0	77.5°	13.4	40.1	81.9	118.6	148.7	190.5	210.5	220.5	163.7
6.7	80°	8.4	30.1	68.5	96.9	96.9	140.3	163.7	172.1	118.6
5.0	82.5°	6.7	21.7	53.5	73.5	65.2	105.3	128.7	130.3	83.5
3.3	85°	5.0	16.7	33.4	48.5	45.1	73.5	75.2	83.5	55.1
3.3	87.5°	3.3	10.0	20.0	28.4	25.1	35.1	40.1	45.1	30.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15539.9
15083.8
14831.5
14462.3
13770.6
13027.1
12165.0
11302.8
10353.8
9438.2
8516.0
7687.3
6861.9
6056.6
5309.7
4593.0
3879.6
3167.8
2544.6
2085.1
1717.6
1420.2
1181.2
994.1
840.4
713.4
606.5
516.3
427.7
305.8
217.2
153.7
110.3
76.9
50.1
26.7
0.0

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