

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: P637927

Luminaire Tested: **IFLD-S-SA2B-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637927
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9848.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

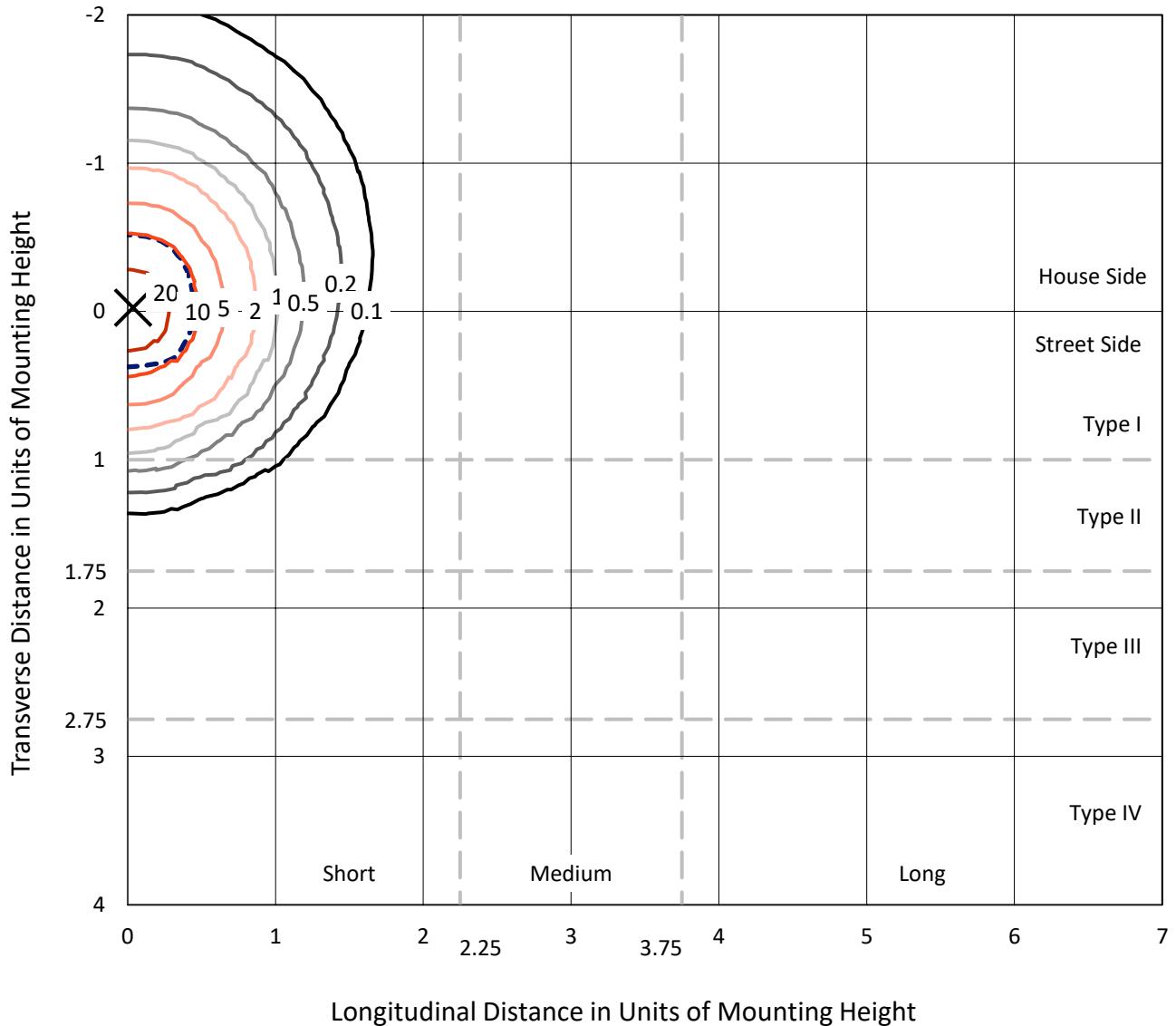
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

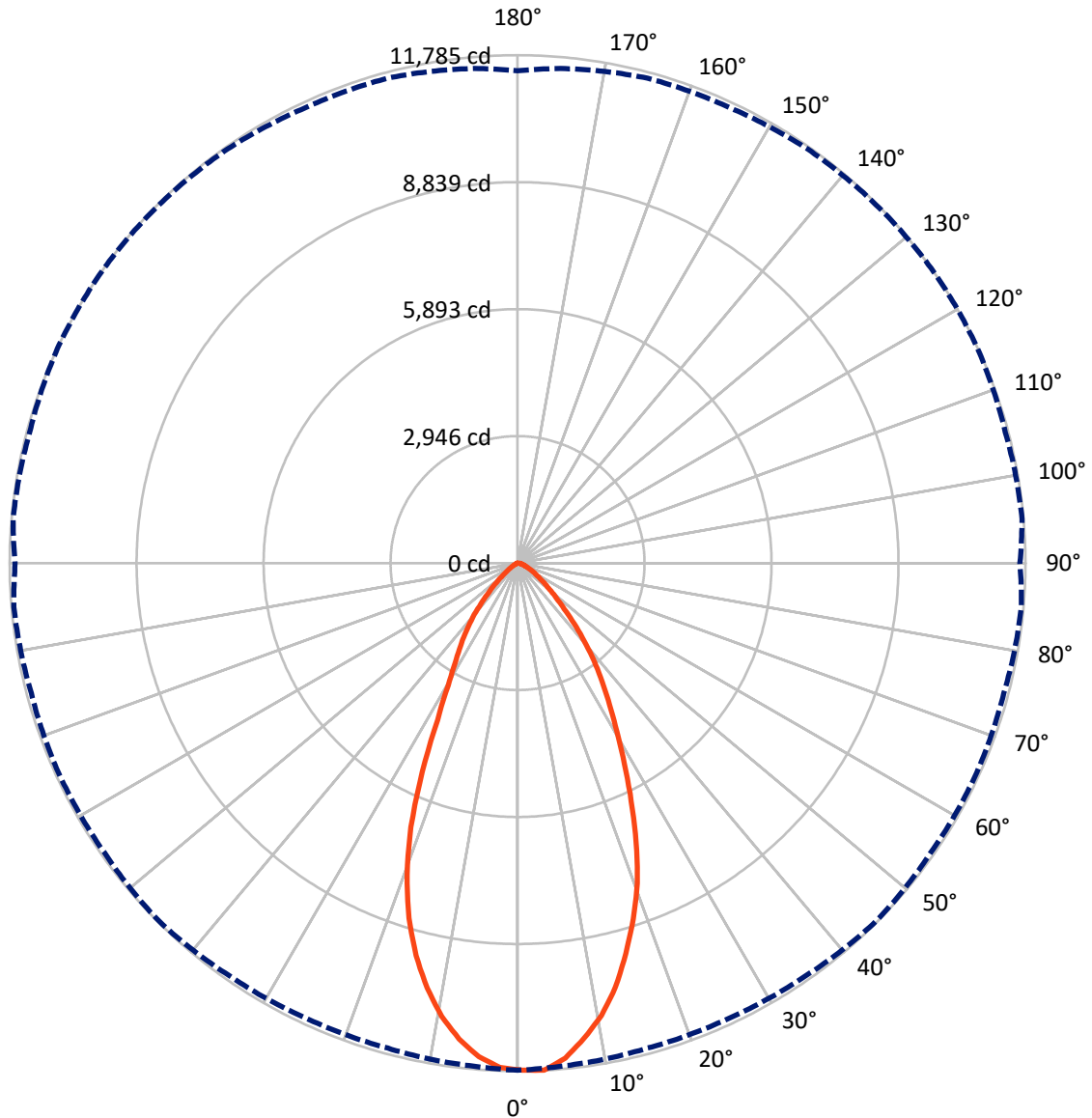
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.4 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	5588.2	0.0	5588.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4259.9	0.0	4259.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	9848.1	0.0	9848.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.4	10.8
10°-20°	2546.8	25.9
20°-30°	2593.9	26.3
30°-40°	1934.3	19.6
40°-50°	1010.5	10.3
50°-60°	425.0	4.3
60°-70°	173.6	1.8
70°-80°	73.0	0.7
80°-90°	22.5	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°	9848.1	100.0
0°-180°	9848.1	100.0



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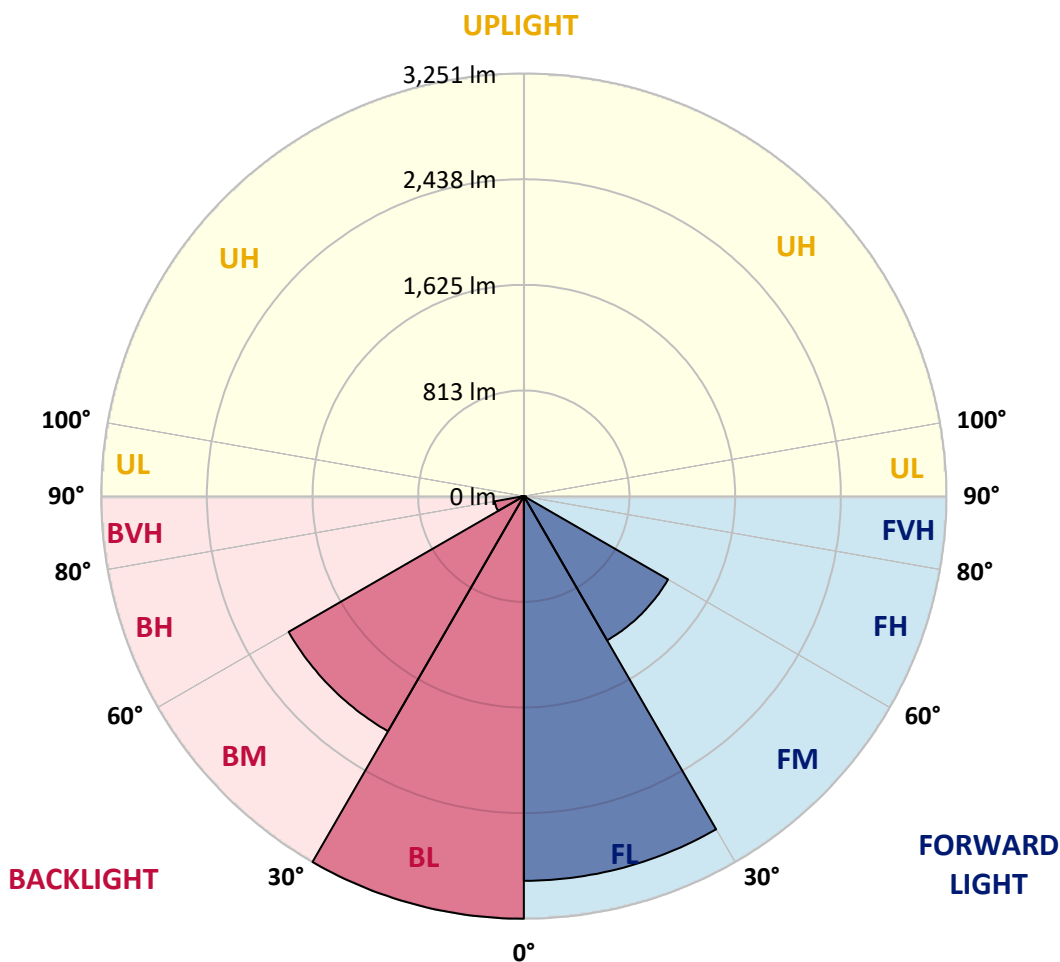
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.5	30.0			
FM (30°-60°)	1280.8	13.0			
FH (60°-80°)	18.5	0.2			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3250.7	33.0	B4/5000		
BM (30°-60°)	2089.0	21.2	B2/2500		
BH (60°-80°)	228.1	2.3	B1/500		G1/500
BVH (80°-90°)	20.4	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°	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1
2.5°	11767.3	11719.3	11650.9	11644.6	11680.0	11757.2	11707.9	11710.4	11680.0	11731.9
5°	11582.6	11537.1	11490.3	11428.3	11480.2	11513.1	11487.8	11459.9	11420.7	11471.3
7.5°	11233.5	11208.2	11138.6	11110.8	11142.4	11179.1	11124.7	11117.1	11062.7	11128.5
10°	10699.6	10689.5	10621.2	10604.8	10632.6	10688.3	10664.2	10659.2	10625.0	10618.7
12.5°	10145.6	10106.3	10021.6	10016.5	10058.3	10141.8	10077.2	10015.3	10034.2	10050.7
15°	8718.6	8676.9	8886.9	9217.0	9390.3	9384.0	9403.0	9328.3	9305.6	9313.2
17.5°	6931.1	6860.3	6936.2	7447.2	8270.8	8749.0	8617.4	8456.7	8370.7	8313.8
20°	5982.3	5986.1	5972.2	6103.8	6617.4	7707.8	7676.2	7366.3	7253.7	7206.9
22.5°	5405.5	5384.0	5353.6	5395.4	5533.3	6173.4	6602.2	6317.6	6278.4	6226.5
25°	4840.0	4840.0	4803.3	4845.1	4884.3	4893.1	5323.3	5439.6	5363.7	5363.7
27.5°	4350.4	4325.1	4308.7	4327.7	4275.8	4026.6	4081.0	4676.8	4625.0	4593.3
30°	3864.7	3857.1	3829.3	3854.6	3662.3	3381.4	3267.6	3946.9	4001.3	3989.9
32.5°	3190.4	3220.8	3344.7	3384.0	3055.1	2828.6	2719.8	3276.4	3494.0	3485.2
35°	2168.3	2193.6	2335.2	2803.3	2532.6	2370.7	2339.0	2606.0	2964.0	2998.1
37.5°	1726.8	1723.0	1763.5	1846.9	2035.4	1996.2	1987.4	2056.9	2417.5	2432.7
40°	1423.2	1418.1	1416.8	1348.5	1301.7	1659.7	1635.7	1593.9	1906.4	1936.8
42.5°	1147.4	1152.4	1156.2	1007.0	938.7	1280.2	1266.3	1223.3	1495.3	1530.7
45°	900.7	899.4	907.0	750.2	731.2	818.5	946.2	912.1	1128.4	1166.4
47.5°	466.8	483.2	585.7	580.6	589.5	580.6	716.0	707.2	848.8	909.6
50°	313.7	318.8	327.6	328.9	464.3	427.6	485.8	550.3	594.6	688.2
52.5°	242.9	246.7	223.9	210.0	284.6	316.3	318.8	380.8	414.9	509.8
55°	135.4	151.8	163.2	164.5	156.9	234.0	232.8	282.1	308.7	371.9
57.5°	17.7	21.5	32.9	106.3	105.0	130.3	163.2	204.9	220.1	272.0
60°	1.3	2.5	3.8	16.4	69.6	75.9	111.3	127.8	153.1	191.0
62.5°	0.0	0.0	1.3	3.8	13.9	44.3	58.2	67.0	89.8	125.2
65°	0.0	0.0	1.3	2.5	5.1	16.4	22.8	36.7	53.1	77.2
67.5°	0.0	0.0	1.3	2.5	3.8	6.3	10.1	16.4	27.8	46.8
70°	0.0	0.0	1.3	2.5	3.8	5.1	7.6	10.1	15.2	25.3
72.5°	0.0	0.0	1.3	1.3	2.5	6.3	6.3	7.6	10.1	13.9
75°	0.0	0.0	1.3	2.5	3.8	6.3	6.3	6.3	7.6	8.9
77.5°	0.0	0.0	1.3	2.5	3.8	6.3	5.1	6.3	6.3	6.3
80°	0.0	0.0	1.3	2.5	3.8	6.3	7.6	6.3	5.1	5.1
82.5°	0.0	0.0	1.3	3.8	3.8	8.9	8.9	8.9	3.8	3.8
85°	0.0	0.0	2.5	3.8	6.3	10.1	10.1	7.6	3.8	2.5
87.5°	0.0	0.0	1.3	2.5	2.5	5.1	7.6	6.3	2.5	1.3
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°
11766.1	0°	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1	11766.1
11656.0	2.5°	11749.6	11718.0	11777.5	11785.0	11759.7	11728.1	11654.7	11648.4	11520.7
11397.9	5°	11527.0	11475.1	11513.1	11538.4	11529.5	11495.3	11465.0	11437.2	11322.0
10979.2	7.5°	11112.0	11093.1	11110.8	11129.8	11166.4	11129.8	11117.1	11088.0	10974.2
10566.8	10°	10651.6	10616.2	10683.2	10674.3	10664.2	10654.1	10601.0	10606.0	10471.9
10005.1	12.5°	10086.1	10026.6	10091.2	10098.8	10091.2	10055.7	9996.3	10021.6	9898.9
9246.1	15°	9325.8	9319.5	9366.3	9396.7	9418.2	9380.2	9360.0	9372.6	9299.3
8269.5	17.5°	8392.2	8474.5	8627.5	8679.4	8680.7	8719.9	8708.5	8693.3	8638.9
7187.9	20°	7294.2	7452.3	7687.6	7929.2	7998.8	7965.9	7950.7	7978.6	7897.6
6172.1	22.5°	6280.9	6416.2	6689.5	7042.4	7246.1	7266.3	7262.6	7238.5	7206.9
5358.7	25°	5420.7	5540.8	5802.7	6125.3	6516.2	6574.4	6576.9	6569.3	6541.5
4621.2	27.5°	4694.5	4840.0	4984.2	5272.7	5688.9	5929.2	5898.8	5890.0	5879.9
3998.8	30°	4036.7	4220.1	4355.5	4535.1	4908.3	5233.4	5265.1	5249.9	5225.8
3483.9	32.5°	3515.5	3624.3	3796.4	3917.8	4186.0	4554.1	4675.6	4664.2	4642.7
3019.6	35°	3062.6	3105.7	3241.0	3376.4	3554.7	3911.5	4091.1	4065.8	4062.0
2460.5	37.5°	2522.5	2666.7	2741.3	2877.9	3003.2	3280.2	3528.2	3516.8	3518.1
1978.5	40°	2036.7	2120.2	2268.2	2383.3	2498.4	2700.8	2976.6	2984.2	2981.7
1532.0	42.5°	1563.6	1644.5	1800.1	1925.4	2027.8	2153.1	2416.2	2425.1	2436.5
1192.9	45°	1220.8	1272.6	1386.5	1516.8	1625.6	1701.5	1901.3	1958.3	1959.5
924.7	47.5°	947.5	1007.0	1087.9	1213.2	1319.4	1373.8	1519.3	1596.5	1592.7
709.7	50°	743.8	798.2	864.0	962.7	1077.8	1120.8	1228.3	1304.2	1300.5
535.1	52.5°	569.3	638.8	697.0	772.9	885.5	922.2	999.4	1086.7	1074.0
392.2	55°	431.4	502.2	556.6	619.9	722.3	769.1	822.3	891.8	894.4
303.6	57.5°	325.1	398.5	447.8	512.3	589.5	641.4	681.9	756.5	755.2
207.5	60°	232.8	296.0	355.5	422.5	482.0	541.4	569.3	640.1	642.6
146.7	62.5°	168.2	227.7	284.6	342.8	396.0	454.1	479.4	535.1	542.7
96.1	65°	117.6	159.4	225.2	269.5	328.9	371.9	404.8	452.9	461.7
56.9	67.5°	75.9	115.1	178.4	217.6	272.0	308.7	342.8	380.8	392.2
36.7	70°	45.5	87.3	132.8	174.6	223.9	256.8	289.7	322.6	328.9
17.7	72.5°	29.1	60.7	96.1	141.7	179.6	215.1	244.2	268.2	249.2
11.4	75°	16.4	41.7	75.9	111.3	145.5	179.6	203.7	216.3	173.3
7.6	77.5°	10.1	30.4	62.0	89.8	112.6	144.2	159.4	167.0	124.0
5.1	80°	6.3	22.8	51.9	73.4	73.4	106.3	124.0	130.3	89.8
3.8	82.5°	5.1	16.4	40.5	55.7	49.3	79.7	97.4	98.7	63.3
2.5	85°	3.8	12.7	25.3	36.7	34.2	55.7	56.9	63.3	41.7
2.5	87.5°	2.5	7.6	15.2	21.5	19.0	26.6	30.4	34.2	22.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11766.1
11420.7
11229.7
10950.1
10426.4
9863.5
9210.7
8557.9
7839.4
7146.2
6447.9
5820.4
5195.5
4585.7
4020.3
3477.6
2937.4
2398.5
1926.6
1578.8
1300.5
1075.3
894.4
752.7
636.3
540.2
459.2
390.9
323.8
231.5
164.5
116.4
83.5
58.2
38.0
20.2
0.0

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