

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: P637992

Luminaire Tested: **IFLD-S-SA3D-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14446.7 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

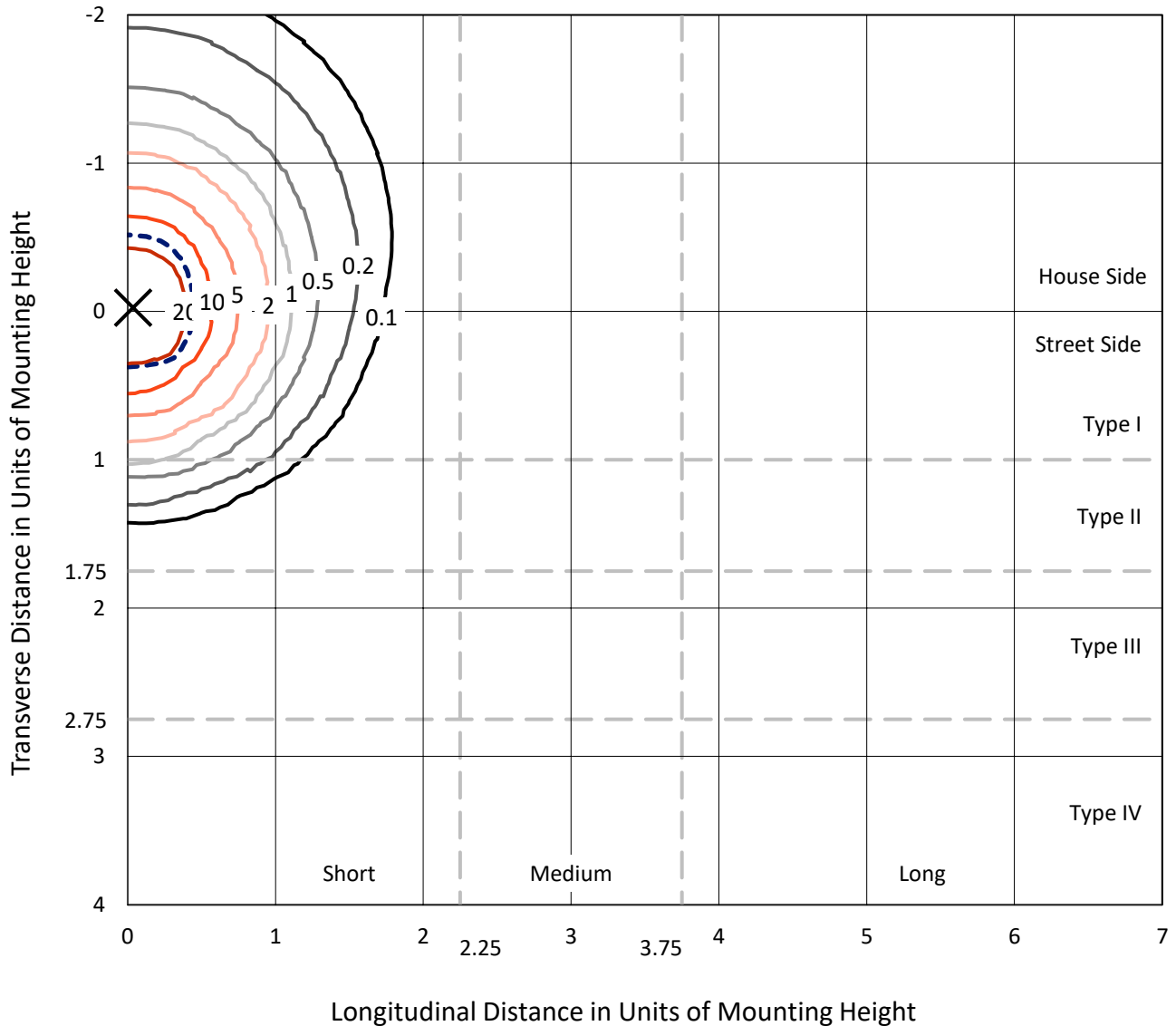
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

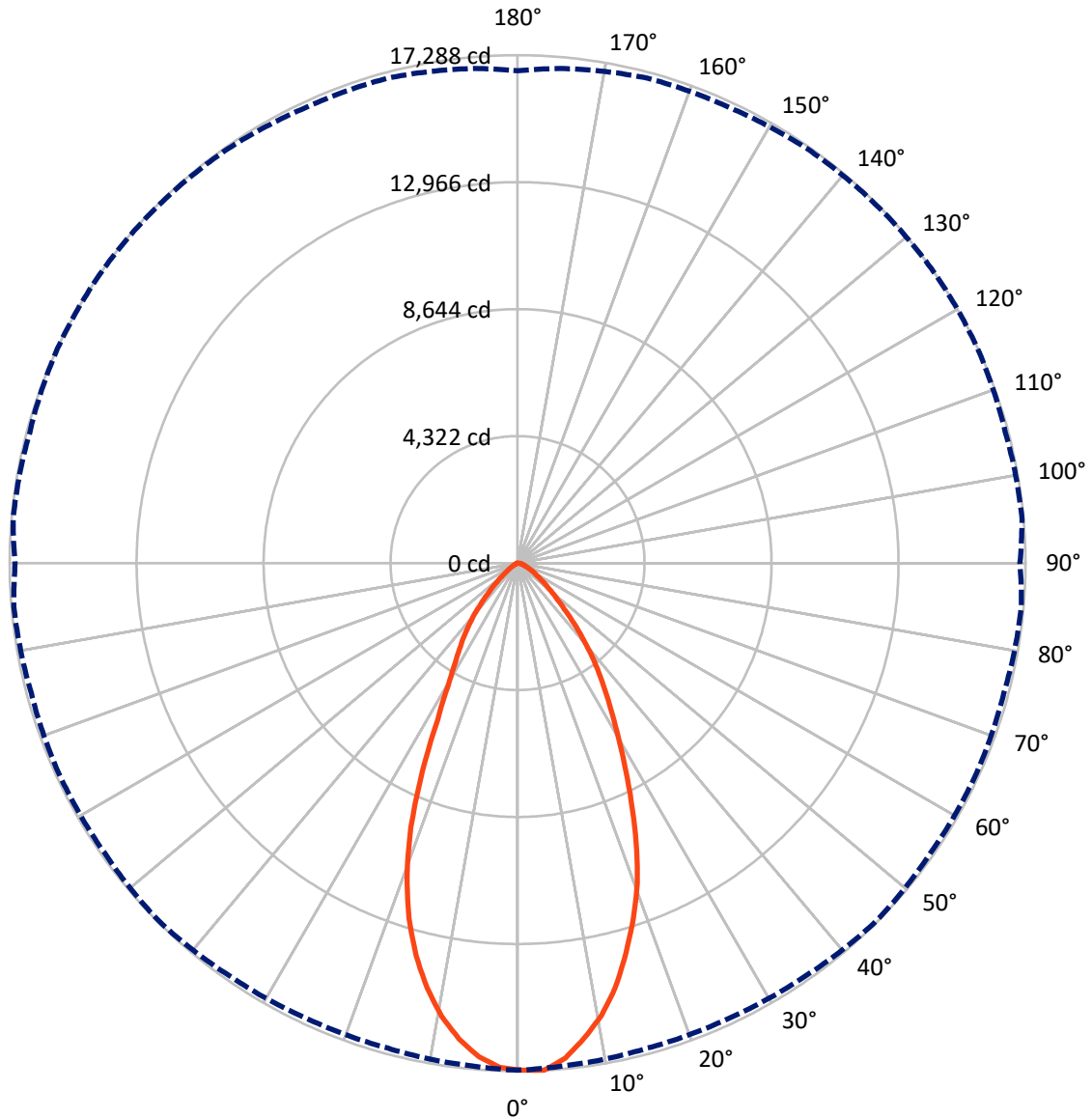
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.2 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	8197.6	0.0	8197.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6249.1	0.0	6249.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	14446.7	0.0	14446.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1567.3	10.8
10°-20°	3736.1	25.9
20°-30°	3805.2	26.3
30°-40°	2837.5	19.6
40°-50°	1482.4	10.3
50°-60°	623.5	4.3
60°-70°	254.6	1.8
70°-80°	107.2	0.7
80°-90°	33.0	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°	14446.7	100.0
0°-180°	14446.7	100.0



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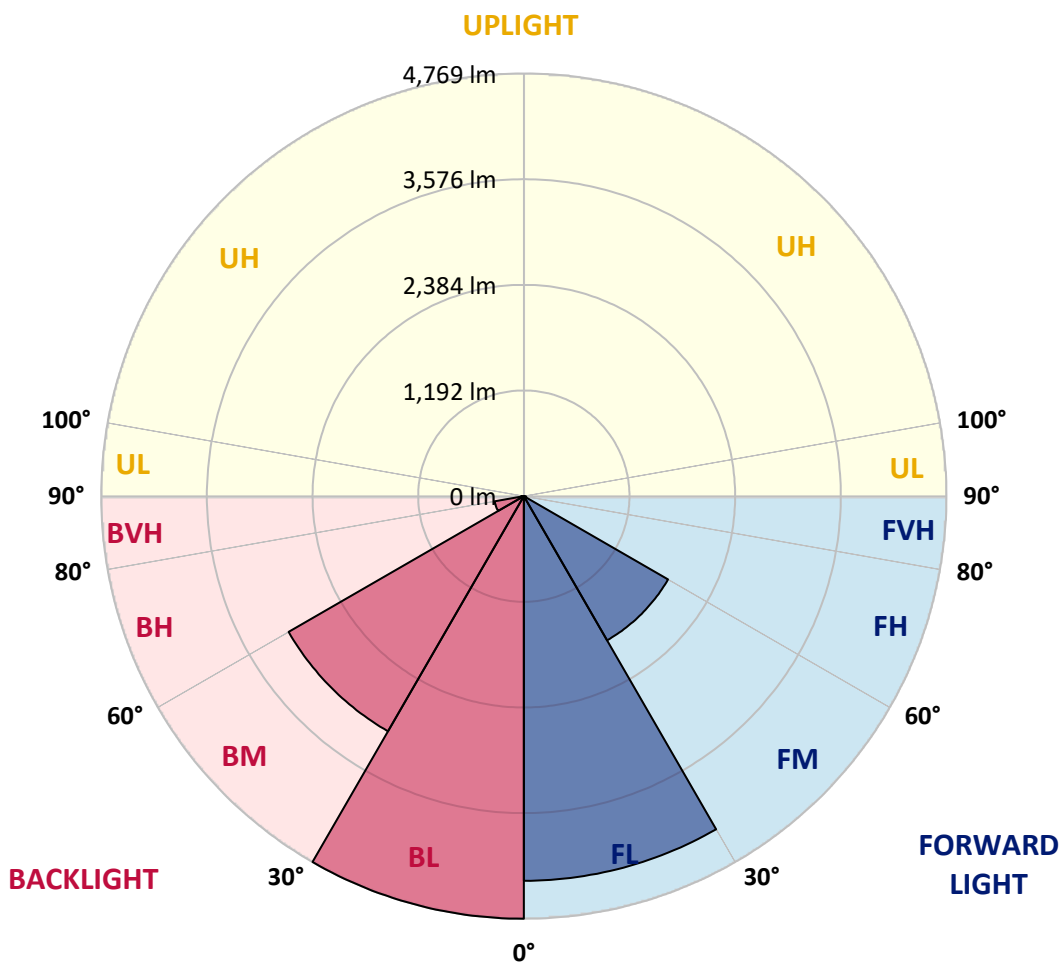
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4340.0	30.0			
FM (30°-60°)	1878.9	13.0			
FH (60°-80°)	27.2	0.2			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	4768.6	33.0	B4/5000		
BM (30°-60°)	3064.5	21.2	B3/5000		
BH (60°-80°)	334.6	2.3	B1/500		G1/500
BVH (80°-90°)	29.9	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°	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4
2.5°	17262.2	17191.7	17091.5	17082.2	17134.2	17247.4	17175.0	17178.7	17134.2	17210.3
5°	16991.3	16924.5	16855.8	16764.9	16841.0	16889.2	16852.1	16811.3	16753.7	16828.0
7.5°	16479.1	16442.0	16339.9	16299.1	16345.5	16399.3	16319.5	16308.4	16228.6	16325.1
10°	15696.0	15681.1	15580.9	15556.8	15597.6	15679.3	15644.0	15636.6	15586.5	15577.2
12.5°	14883.1	14825.6	14701.3	14693.9	14755.1	14877.6	14782.9	14692.0	14719.8	14744.0
15°	12789.8	12728.6	13036.7	13521.0	13775.3	13766.0	13793.8	13684.3	13650.9	13662.1
17.5°	10167.7	10063.7	10175.1	10924.8	12132.9	12834.4	12641.4	12405.7	12279.5	12196.0
20°	8775.9	8781.4	8761.0	8954.0	9707.4	11307.1	11260.7	10806.0	10640.9	10572.2
22.5°	7929.6	7898.1	7853.5	7914.8	8117.1	9056.1	9685.2	9267.6	9210.1	9134.0
25°	7100.1	7100.1	7046.3	7107.5	7165.1	7178.1	7809.0	7979.7	7868.4	7868.4
27.5°	6381.9	6344.8	6320.7	6348.5	6272.4	5906.9	5986.7	6860.7	6784.6	6738.2
30°	5669.3	5658.2	5617.4	5654.5	5372.4	4960.4	4793.4	5789.9	5869.7	5853.0
32.5°	4680.2	4724.7	4906.6	4964.1	4481.6	4149.5	3989.9	4806.4	5125.6	5112.6
35°	3180.8	3217.9	3425.7	4112.3	3715.2	3477.7	3431.3	3822.9	4348.0	4398.1
37.5°	2533.1	2527.5	2586.9	2709.4	2985.9	2928.4	2915.4	3017.5	3546.3	3568.6
40°	2087.7	2080.3	2078.4	1978.2	1909.6	2434.7	2399.5	2338.2	2796.6	2841.2
42.5°	1683.2	1690.6	1696.2	1477.2	1377.0	1878.0	1857.6	1794.5	2193.5	2245.5
45°	1321.3	1319.4	1330.6	1100.5	1072.6	1200.7	1388.1	1338.0	1655.3	1711.0
47.5°	684.8	708.9	859.2	851.8	864.8	851.8	1050.4	1037.4	1245.2	1334.3
50°	460.2	467.6	480.6	482.5	681.1	627.2	712.6	807.3	872.2	1009.5
52.5°	356.3	361.9	328.5	308.1	417.5	463.9	467.6	558.6	608.7	747.9
55°	198.6	222.7	239.4	241.2	230.1	343.3	341.5	413.8	452.8	545.6
57.5°	26.0	31.5	48.2	155.9	154.0	191.1	239.4	300.6	322.9	399.0
60°	1.9	3.7	5.6	24.1	102.1	111.3	163.3	187.4	224.5	280.2
62.5°	0.0	0.0	1.9	5.6	20.4	65.0	85.4	98.4	131.8	183.7
65°	0.0	0.0	1.9	3.7	7.4	24.1	33.4	53.8	77.9	113.2
67.5°	0.0	0.0	1.9	3.7	5.6	9.3	14.8	24.1	40.8	68.7
70°	0.0	0.0	1.9	3.7	5.6	7.4	11.1	14.8	22.3	37.1
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	9.3	11.1	14.8	20.4
75°	0.0	0.0	1.9	3.7	5.6	9.3	9.3	9.3	11.1	13.0
77.5°	0.0	0.0	1.9	3.7	5.6	9.3	7.4	9.3	9.3	9.3
80°	0.0	0.0	1.9	3.7	5.6	9.3	11.1	9.3	7.4	7.4
82.5°	0.0	0.0	1.9	5.6	5.6	13.0	13.0	13.0	5.6	5.6
85°	0.0	0.0	3.7	5.6	9.3	14.8	14.8	11.1	5.6	3.7
87.5°	0.0	0.0	1.9	3.7	3.7	7.4	11.1	9.3	3.7	1.9
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°
17260.4	0°	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4	17260.4
17098.9	2.5°	17236.2	17189.8	17277.1	17288.2	17251.1	17204.7	17097.1	17087.8	16900.3
16720.3	5°	16909.6	16833.5	16889.2	16926.3	16913.3	16863.2	16818.7	16777.9	16609.0
16106.1	7.5°	16300.9	16273.1	16299.1	16326.9	16380.7	16326.9	16308.4	16265.7	16098.7
15501.1	10°	15625.4	15573.5	15671.8	15658.8	15644.0	15629.2	15551.2	15558.6	15361.9
14677.2	12.5°	14795.9	14708.7	14803.3	14814.5	14803.3	14751.4	14664.2	14701.3	14521.3
13563.7	15°	13680.6	13671.3	13740.0	13784.5	13816.1	13760.4	13730.7	13749.3	13641.6
12131.1	17.5°	12311.1	12431.7	12656.2	12732.3	12734.2	12791.7	12775.0	12752.7	12672.9
10544.4	20°	10700.3	10932.2	11277.4	11631.9	11733.9	11685.7	11663.4	11704.2	11585.5
9054.2	22.5°	9213.8	9412.4	9813.2	10331.0	10629.8	10659.4	10653.9	10618.6	10572.2
7861.0	25°	7951.9	8128.2	8512.3	8985.6	9559.0	9644.3	9648.1	9636.9	9596.1
6779.1	27.5°	6886.7	7100.1	7311.7	7734.8	8345.3	8697.9	8653.4	8640.4	8625.5
5866.0	30°	5921.7	6190.8	6389.4	6652.9	7200.3	7677.3	7723.6	7701.4	7666.1
5110.7	32.5°	5157.1	5316.7	5569.1	5747.3	6140.7	6680.7	6858.9	6842.2	6810.6
4429.7	35°	4492.8	4555.9	4754.4	4953.0	5214.7	5738.0	6001.5	5964.4	5958.8
3609.4	37.5°	3700.4	3911.9	4021.4	4221.8	4405.6	4812.0	5175.7	5159.0	5160.8
2902.4	40°	2987.8	3110.2	3327.4	3496.2	3665.1	3962.0	4366.6	4377.7	4374.0
2247.3	42.5°	2293.7	2412.5	2640.7	2824.5	2974.8	3158.5	3544.5	3557.5	3574.2
1750.0	45°	1790.8	1866.9	2033.9	2225.0	2384.6	2496.0	2789.2	2872.7	2874.6
1356.6	47.5°	1390.0	1477.2	1595.9	1779.7	1935.6	2015.3	2228.8	2342.0	2336.4
1041.1	50°	1091.2	1171.0	1267.5	1412.2	1581.1	1644.2	1801.9	1913.3	1907.7
785.0	52.5°	835.1	937.2	1022.5	1133.9	1299.0	1352.8	1466.0	1594.1	1575.5
575.3	55°	632.8	736.7	816.5	909.3	1059.6	1128.3	1206.2	1308.3	1312.0
445.4	57.5°	476.9	584.6	656.9	751.6	864.8	940.9	1000.3	1109.7	1107.9
304.3	60°	341.5	434.2	521.5	619.8	707.0	794.3	835.1	939.0	942.7
215.3	62.5°	246.8	334.0	417.5	502.9	580.9	666.2	703.3	785.0	796.1
141.0	65°	172.6	233.8	330.3	395.3	482.5	545.6	593.8	664.4	677.3
83.5	67.5°	111.3	168.9	261.7	319.2	399.0	452.8	502.9	558.6	575.3
53.8	70°	66.8	128.0	194.9	256.1	328.5	376.7	425.0	473.2	482.5
26.0	72.5°	42.7	89.1	141.0	207.8	263.5	315.5	358.2	393.4	365.6
16.7	75°	24.1	61.2	111.3	163.3	213.4	263.5	298.8	317.3	254.2
11.1	77.5°	14.8	44.5	90.9	131.8	165.2	211.6	233.8	245.0	181.9
7.4	80°	9.3	33.4	76.1	107.6	107.6	155.9	181.9	191.1	131.8
5.6	82.5°	7.4	24.1	59.4	81.7	72.4	116.9	142.9	144.7	92.8
3.7	85°	5.6	18.6	37.1	53.8	50.1	81.7	83.5	92.8	61.2
3.7	87.5°	3.7	11.1	22.3	31.5	27.8	39.0	44.5	50.1	33.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17260.4
16753.7
16473.5
16063.4
15295.1
14469.3
13511.7
12554.2
11500.1
10483.1
9458.8
8538.3
7621.6
6727.1
5897.6
5101.5
4309.1
3518.5
2826.3
2316.0
1907.7
1577.4
1312.0
1104.2
933.4
792.4
673.6
573.4
475.1
339.6
241.2
170.7
122.5
85.4
55.7
29.7
0.0

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