

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: P637344

Luminaire Tested: **IFLD-L-SA8C-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44496 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

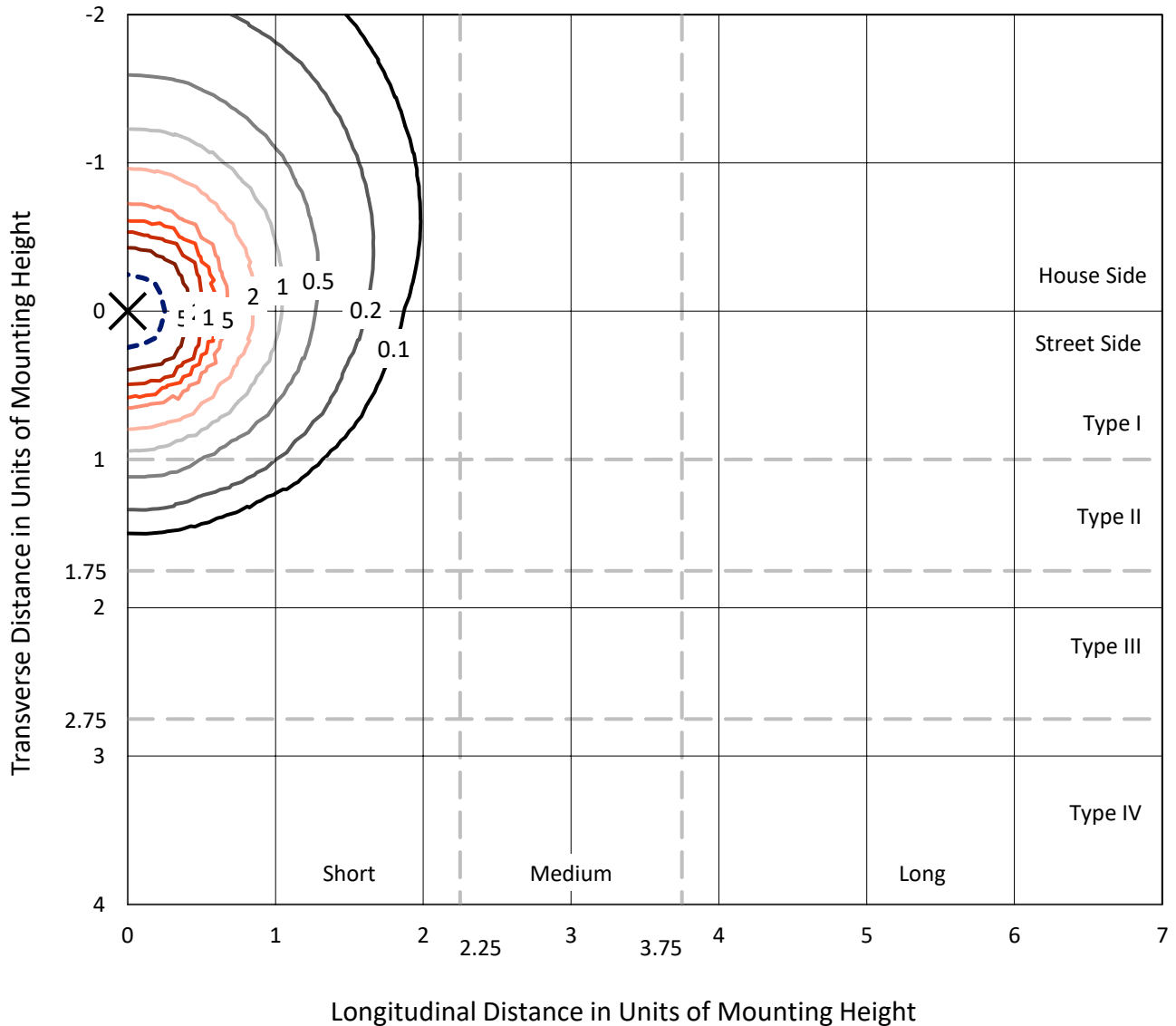
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

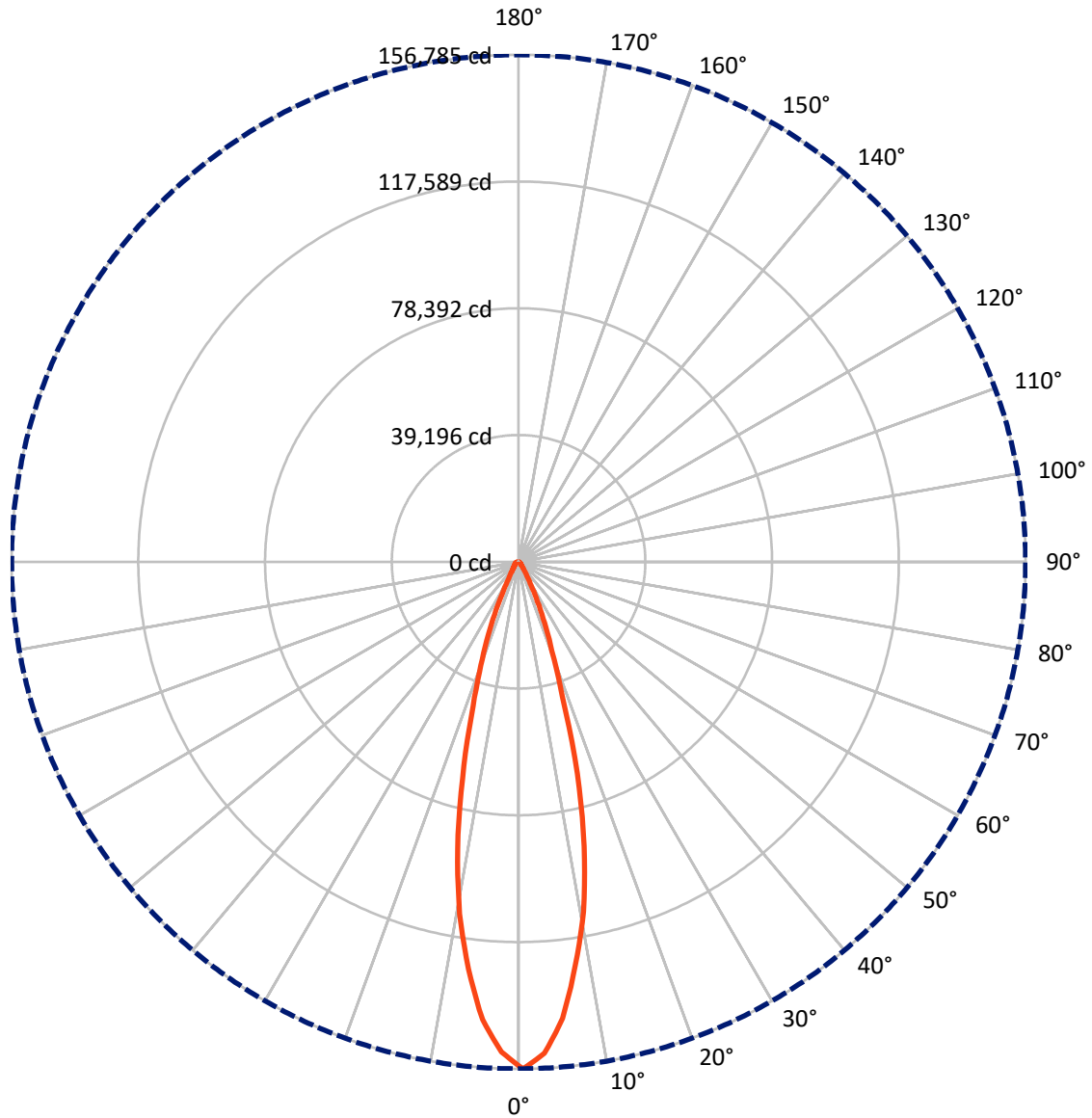
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 392 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23461.3	0.0	23461.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	21034.7	0.0	21034.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	44496.0	0.0	44496.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12653.9	28.4
10°-20°	19164.3	43.1
20°-30°	8087.4	18.2
30°-40°	2109.3	4.7
40°-50°	1066.8	2.4
50°-60°	697.3	1.6
60°-70°	417.8	0.9
70°-80°	219.8	0.5
80°-90°	79.4	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°	44496.0	100.0
0°-180°	44496.0	100.0



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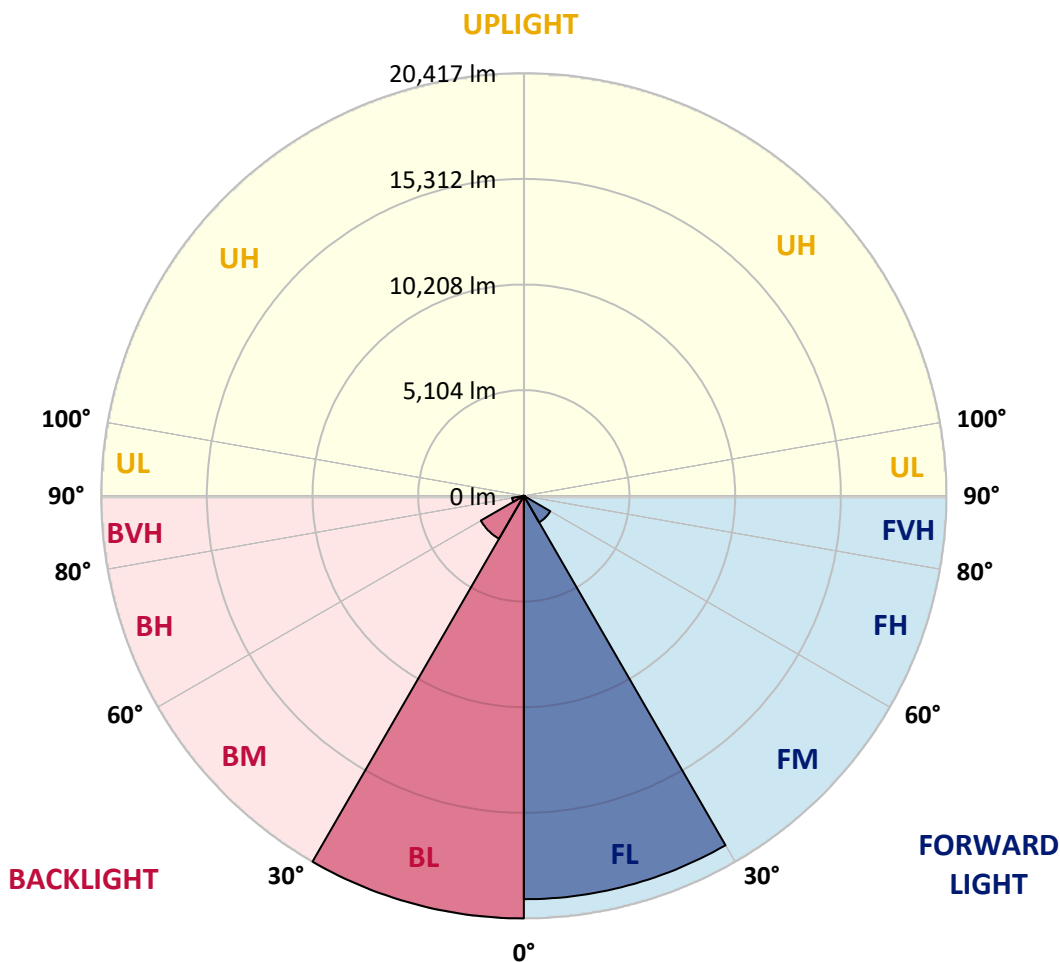
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19489.0	43.8			
FM (30°-60°)	1476.0	3.3			
FH (60°-80°)	60.2	0.1			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	20416.7	45.9	B5		
BM (30°-60°)	2397.5	5.4	B2/2500		
BH (60°-80°)	577.4	1.3	B2/1000		G0/660
BVH (80°-90°)	69.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8
2.5°	152217.6	152302.6	151987.8	152667.3	152137.7	153556.8	152852.2	153951.6	153581.8	154196.4
5°	141823.9	141684.0	141594.1	142648.4	142343.6	143867.7	142893.3	142573.5	143562.9	143383.0
7.5°	126128.5	126498.2	126288.4	126563.2	126718.1	128457.0	129006.7	128577.0	128592.0	128841.8
10°	110038.2	109493.5	108719.0	109233.7	110323.0	111082.6	110777.8	111407.4	111267.5	111862.1
12.5°	90240.2	90670.0	90235.2	89775.5	91679.4	91469.5	91999.2	92344.0	91479.5	93403.3
15°	67973.7	68198.6	68728.3	68693.3	70157.4	70452.2	70382.3	70747.1	70072.5	70392.3
17.5°	43668.5	44428.0	45852.2	48260.7	50969.1	51283.9	51203.9	50904.1	50579.3	50219.5
20°	29332.2	29252.2	29766.9	30471.5	36078.1	37562.2	37517.2	36577.8	35218.6	34958.8
22.5°	20547.5	20697.4	20627.5	21327.1	22486.4	26578.9	26074.2	25119.8	24675.0	24385.2
25°	13516.8	13461.8	13811.6	14021.5	15015.9	15515.6	17284.5	16929.7	16245.1	16320.1
27.5°	8240.0	8310.0	8439.9	8619.8	9324.3	9164.4	10173.8	10308.7	10088.9	9854.0
30°	5056.9	5106.9	5211.8	5341.8	5586.6	5411.7	5691.5	6176.3	6096.3	5931.4
32.5°	3432.9	3437.9	3512.9	3562.8	3532.9	3368.0	3457.9	3917.6	3927.6	3912.6
35°	2468.5	2468.5	2538.5	2578.4	2493.5	2358.6	2373.6	2658.4	2783.3	2808.3
37.5°	1704.0	1709.0	1828.9	1948.8	1853.9	1818.9	1758.9	1948.8	2148.7	2178.7
40°	1294.2	1289.2	1349.2	1439.1	1449.1	1384.2	1404.1	1524.1	1729.0	1753.9
42.5°	1049.4	1054.4	1084.3	1074.3	1079.3	1164.3	1194.3	1249.2	1439.1	1484.1
45°	884.5	889.5	904.5	854.5	834.5	964.4	1004.4	1034.4	1194.3	1249.2
47.5°	729.6	739.6	754.5	699.6	689.6	774.5	844.5	874.5	1014.4	1074.3
50°	524.7	534.7	589.6	559.7	589.6	609.6	704.6	749.5	844.5	924.4
52.5°	379.8	389.8	404.8	409.8	484.7	494.7	564.7	634.6	679.6	769.5
55°	299.8	309.8	299.8	289.8	354.8	409.8	434.7	509.7	544.7	649.6
57.5°	169.9	179.9	194.9	224.9	234.9	314.8	339.8	404.8	434.7	534.7
60°	30.0	35.0	55.0	134.9	164.9	199.9	254.8	309.8	349.8	419.7
62.5°	5.0	5.0	10.0	30.0	94.9	139.9	184.9	219.9	254.8	319.8
65°	0.0	0.0	5.0	10.0	25.0	80.0	99.9	129.9	174.9	229.9
67.5°	0.0	0.0	5.0	10.0	15.0	30.0	45.0	80.0	99.9	154.9
70°	0.0	0.0	5.0	10.0	15.0	20.0	25.0	35.0	60.0	94.9
72.5°	0.0	0.0	5.0	10.0	15.0	20.0	25.0	30.0	30.0	60.0
75°	0.0	0.0	5.0	10.0	15.0	25.0	30.0	30.0	25.0	25.0
77.5°	0.0	0.0	5.0	10.0	20.0	30.0	35.0	30.0	20.0	20.0
80°	0.0	0.0	10.0	15.0	25.0	35.0	45.0	35.0	20.0	10.0
82.5°	0.0	0.0	10.0	20.0	25.0	40.0	55.0	45.0	20.0	10.0
85°	0.0	0.0	5.0	15.0	30.0	40.0	55.0	40.0	20.0	5.0
87.5°	0.0	0.0	5.0	5.0	10.0	15.0	30.0	25.0	10.0	5.0
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°
156784.8	0°	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8	156784.8
153032.1	2.5°	153911.6	154711.1	154876.0	154656.1	154975.9	154401.3	153961.6	152822.3	152137.7
143328.0	5°	144252.5	144132.5	144967.0	145241.9	145206.9	144767.1	144152.5	143462.9	142793.3
128357.1	7.5°	129156.6	129311.5	130071.1	130555.8	130310.9	129761.2	129336.5	128816.8	128367.1
112077.0	10°	113101.4	112037.0	112981.4	112981.4	113636.0	112082.0	112226.9	110917.7	110977.6
93368.3	12.5°	93688.1	94072.9	94227.8	94672.5	93908.0	93083.5	92074.1	91874.2	91249.6
69782.6	15°	70787.0	71886.4	70941.9	72556.0	71776.4	70917.0	70762.1	69213.0	69702.7
50614.3	17.5°	50364.4	51578.7	51958.5	52882.9	52173.3	51663.6	51019.0	50549.3	50514.3
35433.5	20°	35713.3	36932.6	37212.4	38321.7	38241.8	38081.9	37537.2	36942.6	36298.0
24120.4	22.5°	24485.1	25479.5	26409.0	27903.1	27878.1	27408.4	27353.4	26513.9	26528.9
16295.1	25°	16465.0	17189.6	17409.4	18938.5	19108.4	19058.4	18773.6	17994.1	18288.9
9954.0	27.5°	9964.0	10598.6	11343.1	11882.8	12392.5	12312.5	12027.7	11593.0	11403.1
5981.4	30°	6141.3	6426.1	6700.9	7350.5	7655.4	7815.3	7680.3	7275.6	7305.6
3937.6	32.5°	4022.6	4262.4	4462.3	4872.0	5031.9	5326.8	5271.8	5186.9	5086.9
2833.3	35°	2933.2	3108.1	3243.0	3432.9	3637.8	3887.6	3927.6	3892.6	3852.7
2188.7	37.5°	2238.6	2418.5	2573.4	2653.4	2813.3	3008.2	3118.1	3113.1	3083.1
1783.9	40°	1818.9	1953.8	2093.7	2198.7	2308.6	2453.5	2588.4	2603.4	2603.4
1499.1	42.5°	1519.1	1634.0	1773.9	1883.9	1963.8	2098.7	2238.6	2248.6	2238.6
1269.2	45°	1299.2	1399.2	1534.1	1664.0	1729.0	1828.9	1963.8	1993.8	1973.8
1089.3	47.5°	1129.3	1219.3	1334.2	1474.1	1544.1	1634.0	1758.9	1793.9	1788.9
939.4	50°	969.4	1074.3	1189.3	1304.2	1394.2	1479.1	1599.0	1639.0	1624.0
799.5	52.5°	854.5	949.4	1049.4	1174.3	1279.2	1354.2	1449.1	1519.1	1499.1
674.6	55°	714.6	829.5	934.4	1039.4	1169.3	1249.2	1339.2	1424.1	1404.1
569.7	57.5°	619.6	714.6	834.5	929.4	1059.4	1154.3	1244.2	1334.2	1329.2
464.7	60°	519.7	619.6	734.6	834.5	954.4	1059.4	1149.3	1249.2	1259.2
349.8	62.5°	409.8	529.7	629.6	744.5	864.5	979.4	1059.4	1159.3	1174.3
264.8	65°	309.8	434.7	544.7	654.6	774.5	899.5	969.4	1054.4	1069.4
194.9	67.5°	229.9	334.8	464.7	564.7	689.6	809.5	874.5	944.4	969.4
119.9	70°	174.9	254.8	389.8	484.7	614.6	709.6	779.5	839.5	859.5
80.0	72.5°	109.9	199.9	314.8	414.7	529.7	614.6	664.6	699.6	729.6
45.0	75°	75.0	154.9	254.8	354.8	439.7	504.7	549.7	579.6	604.6
20.0	77.5°	45.0	119.9	209.9	294.8	349.8	399.8	444.7	464.7	479.7
15.0	80°	25.0	89.9	174.9	239.9	274.8	309.8	344.8	369.8	379.8
10.0	82.5°	15.0	70.0	139.9	184.9	199.9	234.9	269.8	284.8	284.8
5.0	85°	10.0	50.0	94.9	134.9	144.9	169.9	179.9	189.9	199.9
5.0	87.5°	10.0	30.0	60.0	75.0	80.0	89.9	94.9	104.9	114.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
156784.8
151633.0
142043.8
126843.0
110393.0
90680.0
69213.0
49584.9
36018.1
26239.1
17824.2
11238.2
7175.6
5051.9
3837.7
3068.1
2573.4
2228.6
1973.8
1778.9
1614.0
1494.1
1414.1
1334.2
1264.2
1184.3
1084.3
979.4
869.5
724.6
599.6
474.7
369.8
279.8
194.9
109.9
0.0

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