

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: P636426

Luminaire Tested: **IFLD-S-SA3D-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12210.1 lumens
Efficiency: N/A
Efficacy: 66.3 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



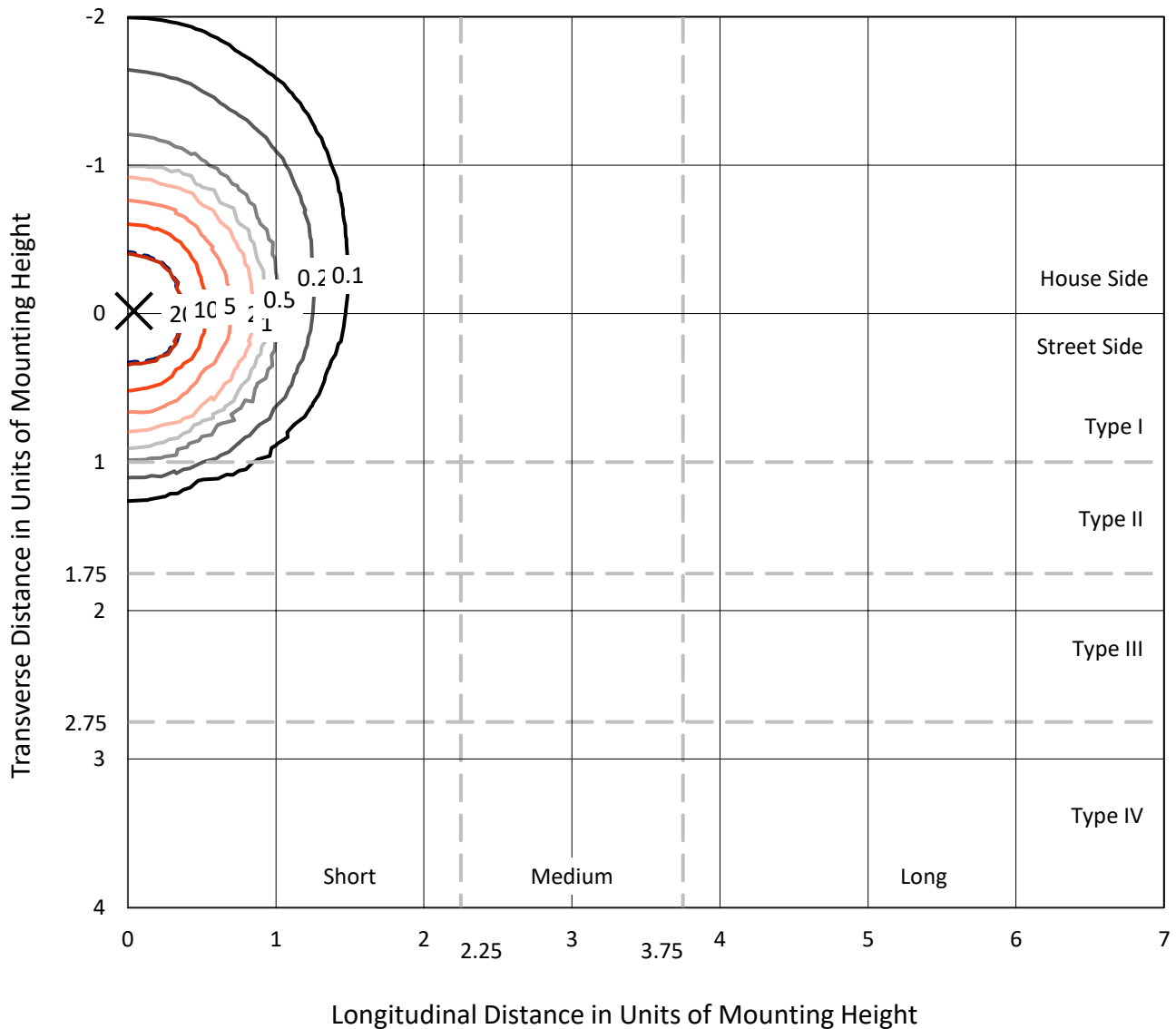
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

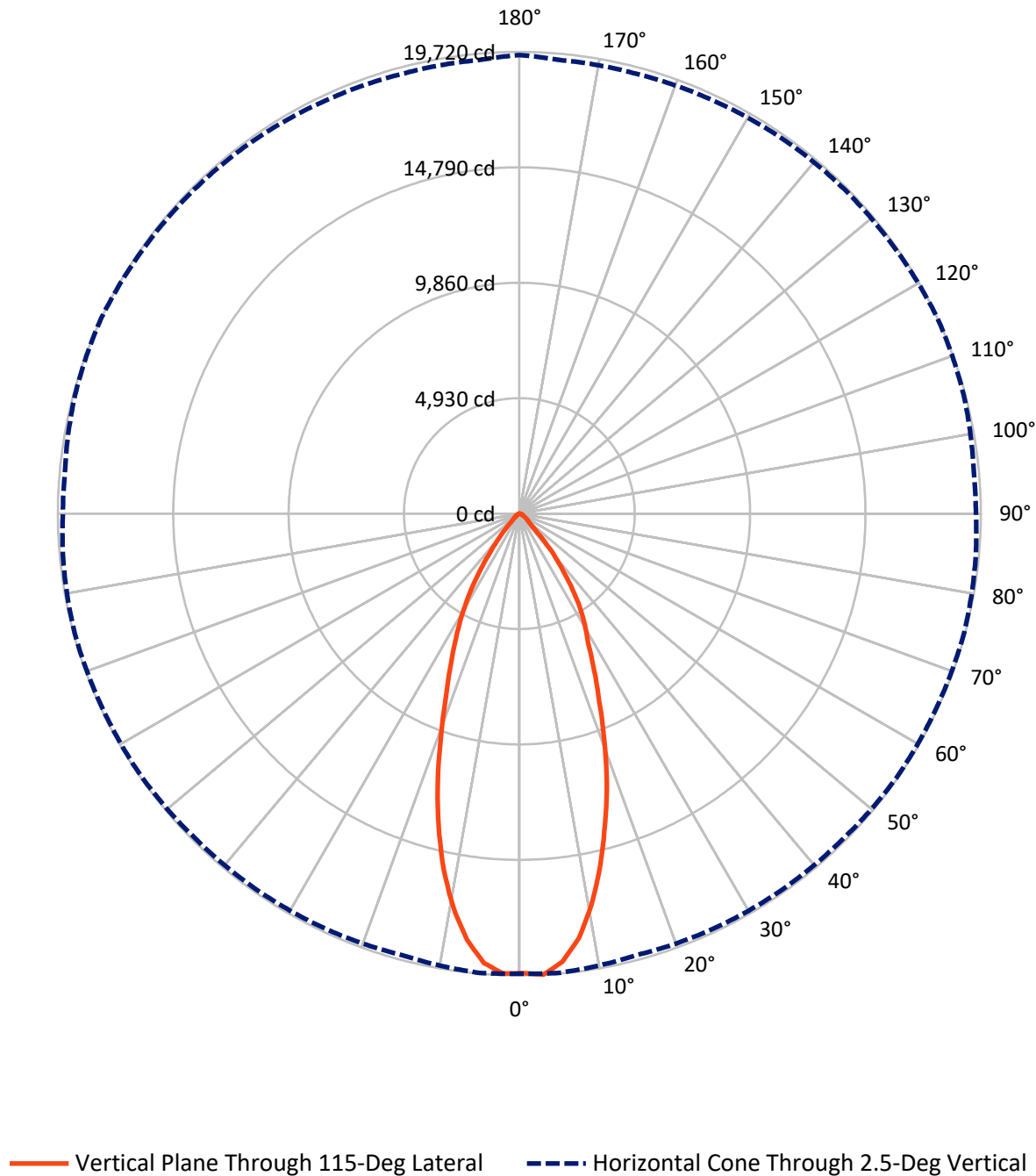


Based on 20 foot mounting height. Maximum calculated value = 49.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6738.5	0.0	6738.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5471.5	0.0	5471.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	12210.1	0.0	12210.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1760.5	14.4
10°-20°	3720.7	30.5
20°-30°	3358.1	27.5
30°-40°	2222.3	18.2
40°-50°	665.7	5.5
50°-60°	267.0	2.2
60°-70°	138.3	1.1
70°-80°	60.0	0.5
80°-90°	17.5	0.1
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°	12210.1	100.0
0°-180°	12210.1	100.0

Coefficient of Utilization



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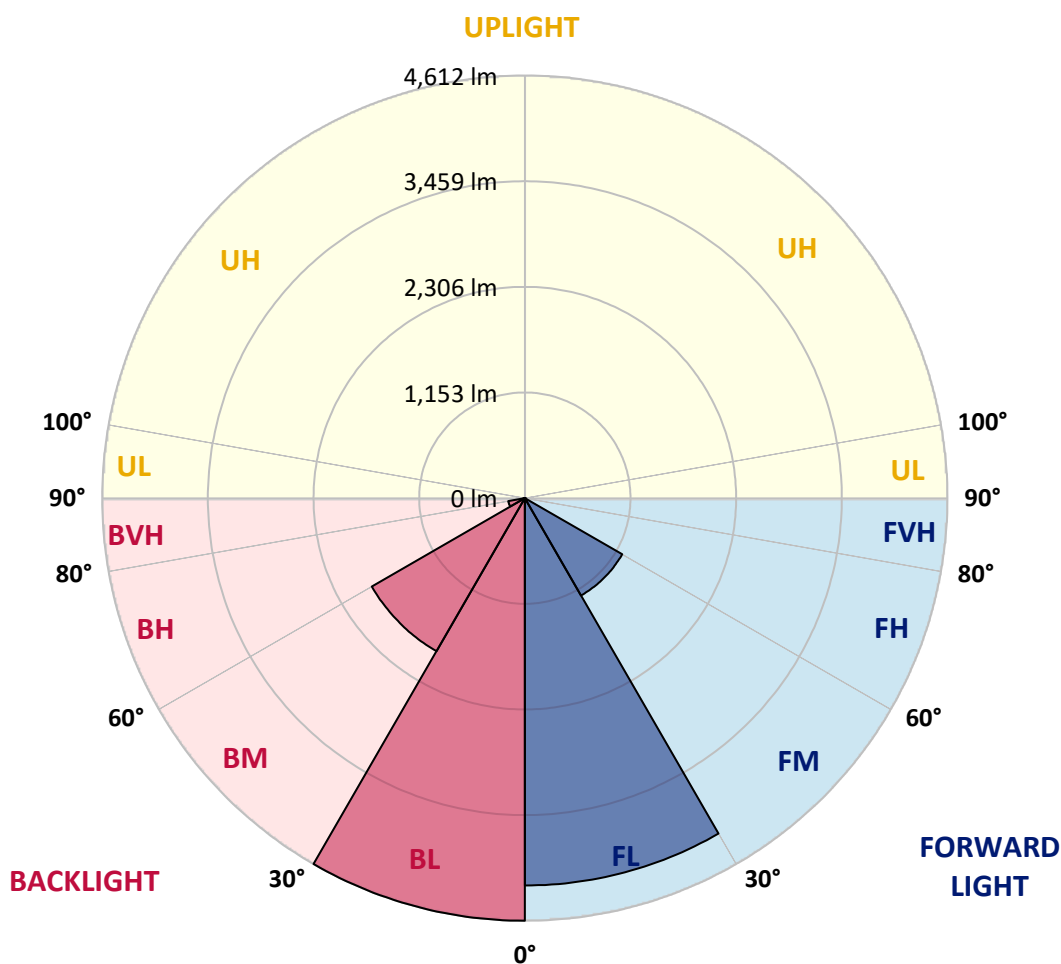
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4227.2	34.6			
FM	(30°-60°)	1226.6	10.0			
FH	(60°-80°)	15.2	0.1			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	4612.1	37.8	B4/5000		
BM	(30°-60°)	1928.4	15.8	B2/2500		
BH	(60°-80°)	183.1	1.5	B1/500		G1/500
BVH	(80°-90°)	15.0	0.1			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°	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7
2.5°	19652.7	19687.6	19512.8	19572.8	19597.7	19605.2	19667.7	19657.7	19675.2	19582.8
5°	19393.0	19325.6	19195.7	19198.2	19190.7	19120.8	19263.1	19253.1	19223.2	19113.3
7.5°	18509.0	18606.4	18361.6	18356.7	18351.7	18266.8	18454.0	18339.2	18364.1	18206.8
10°	17215.4	17227.9	17010.7	16990.7	17008.2	16898.3	17115.6	17070.6	17118.1	16953.2
12.5°	15629.7	15699.7	15459.9	15425.0	15494.9	15340.1	15514.9	15537.4	15467.4	15445.0
15°	12258.6	12443.4	12897.9	13592.1	13771.9	13642.0	13781.8	13779.4	13809.3	13639.5
17.5°	9339.4	9356.9	9249.5	9581.6	11504.4	12128.7	12158.7	11921.5	11741.7	11679.2
20°	8153.2	8213.2	8115.8	8143.3	8450.4	10280.8	10350.7	9993.7	9686.5	9661.5
22.5°	7209.3	7246.8	7176.8	7199.3	7214.3	7429.1	8645.2	8330.5	8183.2	8070.8
25°	6410.2	6410.2	6372.8	6380.3	6365.3	6048.1	6672.4	7032.0	6947.1	6907.2
27.5°	5681.0	5691.0	5643.6	5671.1	5488.8	4976.8	4901.9	5963.2	5873.3	5800.9
30°	4989.3	5021.8	4976.8	4991.8	4594.8	4175.3	3960.5	4974.4	5086.7	5066.7
32.5°	3755.7	3903.1	4265.2	4280.1	3740.8	3418.6	3323.7	3993.0	4420.0	4382.5
35°	2327.4	2319.9	2334.8	3054.0	2869.2	2649.5	2684.5	3016.6	3498.5	3481.0
37.5°	1775.5	1773.0	1800.5	1728.0	1880.4	2010.2	2037.7	2037.7	2554.6	2557.1
40°	1346.0	1336.0	1333.5	1218.6	1021.3	1508.3	1463.3	1425.9	1775.5	1812.9
42.5°	859.0	889.0	866.5	741.7	666.7	824.1	919.0	889.0	1096.3	1123.7
45°	479.5	479.5	459.5	389.6	387.1	417.0	524.4	489.4	561.9	599.3
47.5°	232.2	227.2	249.7	307.2	319.6	309.6	374.6	389.6	424.5	459.5
50°	187.3	187.3	177.3	159.8	264.7	254.7	277.2	297.2	317.1	347.1
52.5°	157.3	157.3	144.8	134.8	152.3	194.8	197.3	234.7	232.2	274.7
55°	79.9	82.4	117.4	117.4	102.4	159.8	162.3	189.8	194.8	229.7
57.5°	7.5	10.0	15.0	72.4	79.9	87.4	122.4	139.8	162.3	177.3
60°	2.5	2.5	5.0	10.0	47.4	59.9	77.4	92.4	112.4	147.3
62.5°	0.0	0.0	2.5	5.0	10.0	37.5	42.5	47.4	67.4	92.4
65°	0.0	0.0	2.5	2.5	5.0	12.5	17.5	30.0	42.5	57.4
67.5°	0.0	0.0	2.5	2.5	5.0	7.5	10.0	15.0	20.0	37.5
70°	0.0	0.0	2.5	2.5	5.0	7.5	7.5	10.0	12.5	17.5
72.5°	0.0	0.0	2.5	2.5	5.0	10.0	7.5	7.5	10.0	12.5
75°	0.0	0.0	2.5	2.5	5.0	7.5	7.5	7.5	7.5	7.5
77.5°	0.0	0.0	2.5	2.5	5.0	7.5	7.5	7.5	5.0	5.0
80°	0.0	0.0	2.5	2.5	5.0	7.5	10.0	10.0	5.0	5.0
82.5°	0.0	0.0	2.5	5.0	5.0	12.5	15.0	12.5	5.0	2.5
85°	0.0	0.0	2.5	2.5	7.5	12.5	12.5	7.5	5.0	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	7.5	7.5	2.5	2.5
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°
19627.7	0°	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7	19627.7
19507.8	2.5°	19497.9	19650.2	19720.1	19647.7	19612.7	19562.8	19490.4	19440.4	19450.4
19053.4	5°	19010.9	19170.7	19225.7	19163.2	19110.8	19083.3	19070.8	19095.8	19160.7
18139.4	7.5°	18134.4	18236.8	18296.7	18266.8	18194.3	18276.7	18299.2	18284.2	18379.1
16903.3	10°	16908.3	17020.7	16965.7	16978.2	16893.3	16935.8	16923.3	16978.2	17073.1
15427.5	12.5°	15327.6	15435.0	15392.5	15385.0	15295.1	15375.0	15325.1	15385.0	15509.9
13569.6	15°	13667.0	13734.4	13706.9	13664.5	13584.6	13612.0	13766.9	13756.9	13811.8
11641.8	17.5°	11591.8	11916.5	12093.8	12131.2	12066.3	12121.2	12231.1	12203.6	12328.5
9609.1	20°	9591.6	9918.7	10355.7	10710.3	10717.8	10725.3	10795.2	10812.7	10920.1
8073.3	22.5°	8038.4	8270.6	8740.1	9209.5	9534.2	9601.6	9594.1	9619.1	9649.0
6852.2	25°	6834.7	7004.5	7434.1	7758.7	8328.0	8517.8	8572.8	8517.8	8535.3
5775.9	27.5°	5840.9	6100.6	6242.9	6590.0	7146.9	7586.4	7568.9	7536.4	7541.4
5026.8	30°	5024.3	5304.0	5513.7	5618.6	6038.1	6672.4	6737.3	6645.0	6647.5
4365.0	32.5°	4337.6	4425.0	4734.6	4819.5	5089.2	5666.1	5888.3	5818.4	5805.9
3491.0	35°	3593.4	3640.9	3783.2	3950.5	4110.3	4547.3	4914.4	4849.5	4882.0
2567.1	37.5°	2557.1	2751.9	2889.2	3026.6	3141.4	3416.1	3858.1	3798.2	3830.6
1817.9	40°	1803.0	1890.4	2127.6	2187.5	2357.3	2484.7	2859.3	2839.3	2879.2
1128.7	42.5°	1108.7	1171.2	1291.0	1348.5	1463.3	1535.8	1755.5	1780.5	1832.9
624.3	45°	629.3	656.8	739.2	801.6	886.5	916.5	993.9	1028.8	1058.8
484.4	47.5°	479.5	509.4	564.4	619.3	689.2	714.2	769.1	821.6	849.0
374.6	50°	392.1	419.5	477.0	521.9	591.8	614.3	659.3	716.7	751.6
284.7	52.5°	297.2	337.1	407.0	454.5	526.9	554.4	596.8	654.3	686.7
234.7	55°	244.7	274.7	337.1	402.0	469.5	506.9	534.4	604.3	639.3
192.3	57.5°	209.8	232.2	272.2	349.6	407.0	462.0	484.4	549.4	584.3
152.3	60°	159.8	194.8	229.7	289.7	354.6	412.0	437.0	494.4	521.9
109.9	62.5°	132.3	154.8	199.8	232.2	304.7	364.6	389.6	442.0	462.0
72.4	65°	92.4	124.9	167.3	187.3	254.7	312.1	347.1	387.1	407.0
42.5	67.5°	54.9	92.4	132.3	159.8	207.3	264.7	302.2	339.6	357.1
25.0	70°	35.0	72.4	104.9	134.8	162.3	217.3	262.2	294.7	287.2
15.0	72.5°	20.0	44.9	77.4	109.9	134.8	182.3	224.7	249.7	177.3
10.0	75°	12.5	32.5	64.9	89.9	109.9	144.8	184.8	189.8	109.9
5.0	77.5°	10.0	25.0	49.9	72.4	74.9	107.4	129.9	147.3	82.4
5.0	80°	5.0	20.0	42.5	59.9	47.4	74.9	99.9	114.9	64.9
2.5	82.5°	5.0	12.5	32.5	42.5	35.0	57.4	72.4	82.4	54.9
2.5	85°	2.5	10.0	17.5	25.0	25.0	37.5	32.5	40.0	35.0
2.5	87.5°	2.5	5.0	10.0	12.5	10.0	15.0	17.5	17.5	15.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19627.7
19585.3
19295.6
18474.0
17110.6
15532.4
13824.3
12308.5
10897.6
9594.1
8507.8
7548.9
6649.9
5835.9
4911.9
3858.1
2894.2
1892.9
1056.3
861.5
766.6
709.2
649.3
599.3
526.9
464.5
407.0
354.6
264.7
157.3
102.4
82.4
67.4
59.9
35.0
12.5
0.0

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