

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: P637899

Luminaire Tested: **IFLD-S-SA2C-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637899
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11984.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

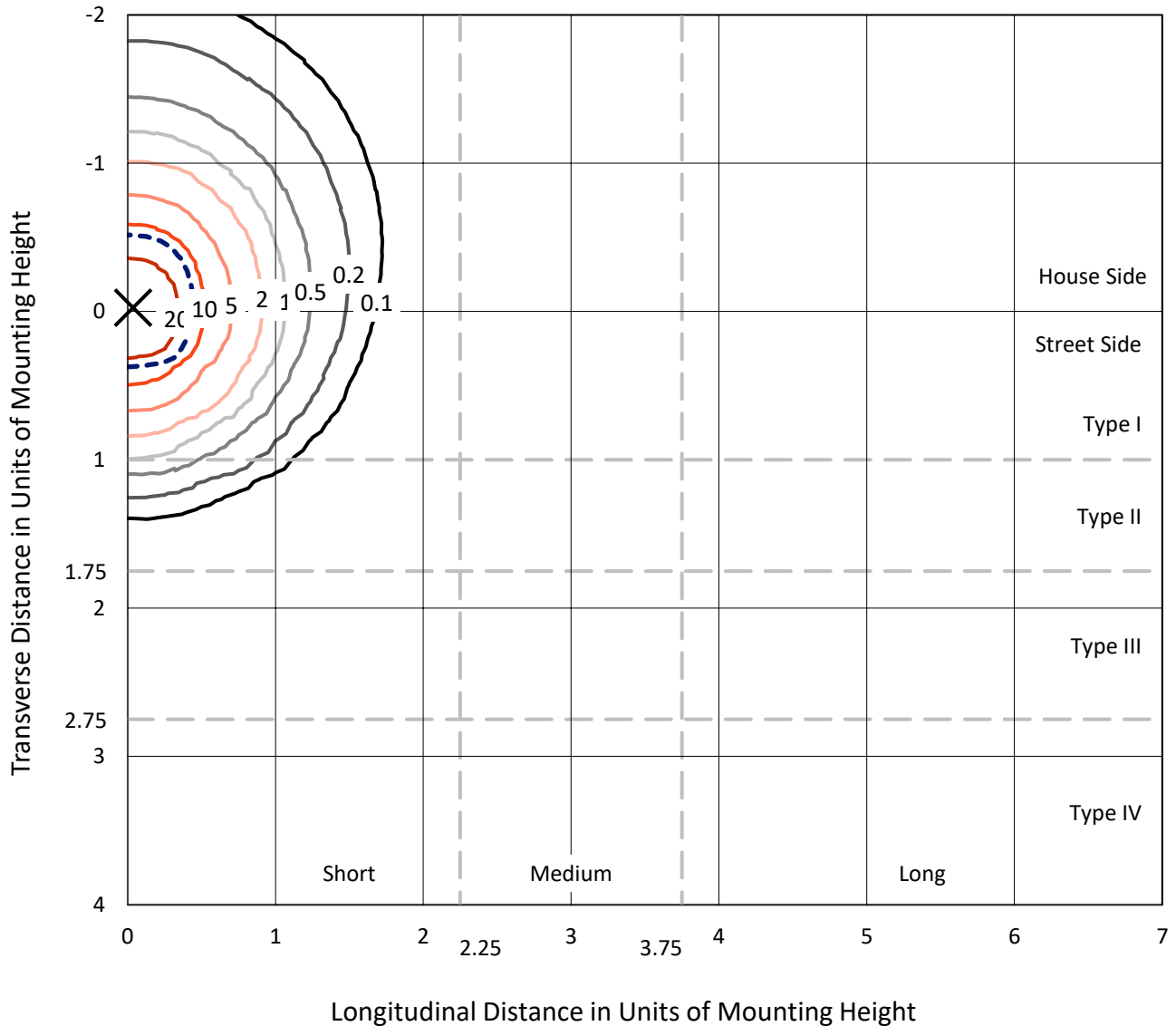
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

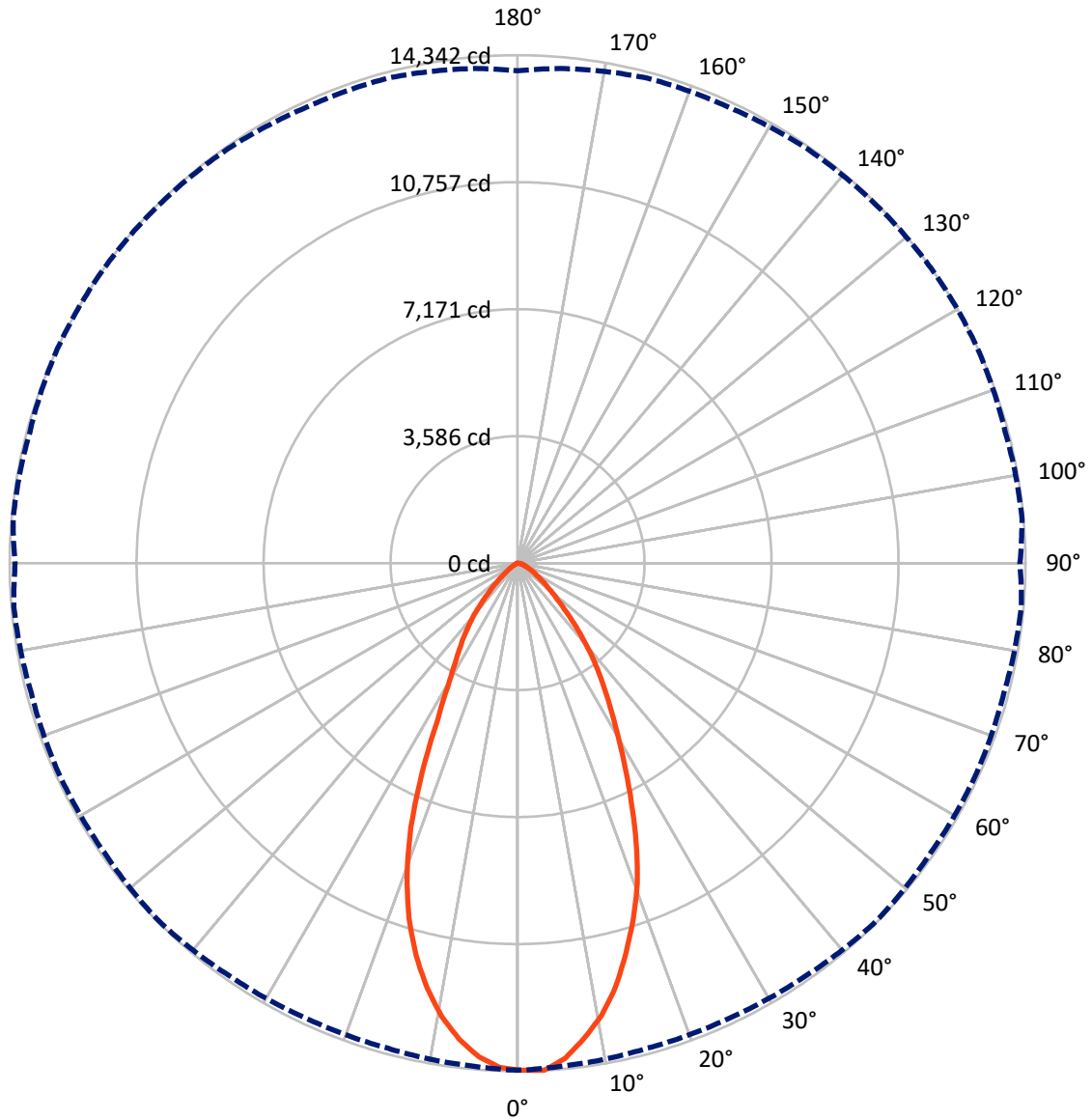
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.8 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	6800.7	0.0	6800.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5184.2	0.0	5184.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	11984.9	0.0	11984.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.2	10.8
10°-20°	3099.4	25.9
20°-30°	3156.7	26.3
30°-40°	2354.0	19.6
40°-50°	1229.8	10.3
50°-60°	517.3	4.3
60°-70°	211.2	1.8
70°-80°	88.9	0.7
80°-90°	27.4	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°	11984.9	100.0
0°-180°	11984.9	100.0



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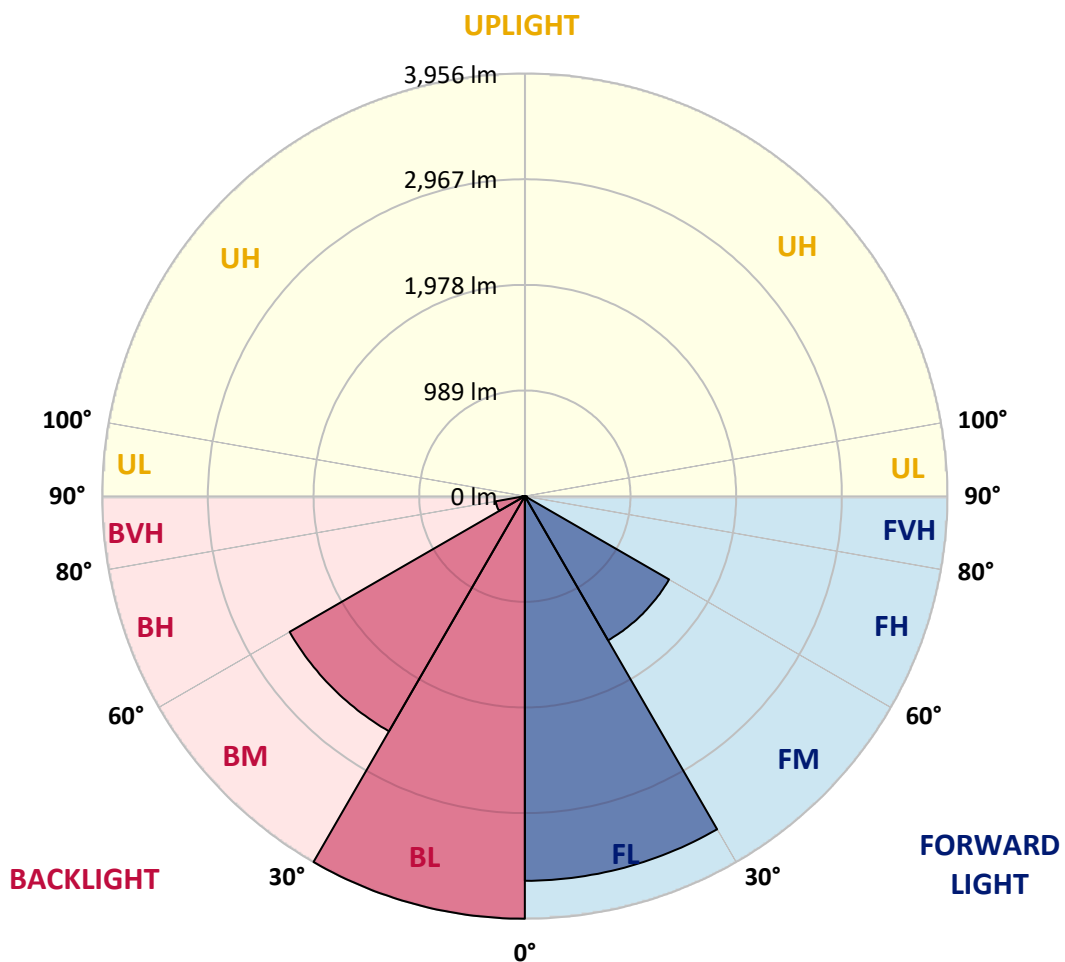
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.4	30.0			
FM (30°-60°)	1558.7	13.0			
FH (60°-80°)	22.5	0.2			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	3956.0	33.0	B4/5000		
BM (30°-60°)	2542.3	21.2	B3/5000		
BH (60°-80°)	277.6	2.3	B1/500		G1/500
BVH (80°-90°)	24.8	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°	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1
2.5°	14320.6	14262.1	14179.0	14171.3	14214.4	14308.3	14248.3	14251.3	14214.4	14277.5
5°	14095.8	14040.4	13983.5	13908.0	13971.1	14011.2	13980.4	13946.5	13898.8	13960.4
7.5°	13670.9	13640.1	13555.5	13521.6	13560.1	13604.7	13538.5	13529.3	13463.1	13543.2
10°	13021.3	13008.9	12925.8	12905.8	12939.7	13007.4	12978.1	12972.0	12930.4	12922.7
12.5°	12346.9	12299.2	12196.1	12189.9	12240.7	12342.3	12263.8	12188.4	12211.5	12231.5
15°	10610.4	10559.6	10815.1	11216.9	11427.9	11420.2	11443.2	11352.4	11324.7	11333.9
17.5°	8435.0	8348.8	8441.2	9063.2	10065.4	10647.3	10487.2	10291.7	10187.0	10117.7
20°	7280.4	7285.0	7268.1	7428.2	8053.2	9380.3	9341.8	8964.6	8827.6	8770.6
22.5°	6578.4	6552.2	6515.2	6566.1	6733.9	7512.9	8034.8	7688.4	7640.6	7577.5
25°	5890.2	5890.2	5845.6	5896.4	5944.1	5954.9	6478.3	6619.9	6527.6	6527.6
27.5°	5294.4	5263.6	5243.6	5266.7	5203.6	4900.3	4966.5	5691.6	5628.5	5590.0
30°	4703.2	4694.0	4660.1	4690.9	4456.9	4115.1	3976.6	4803.3	4869.5	4855.6
32.5°	3882.7	3919.6	4070.5	4118.2	3717.9	3442.4	3310.0	3987.4	4252.2	4241.4
35°	2638.7	2669.5	2842.0	3411.6	3082.1	2885.1	2846.6	3171.4	3607.1	3648.7
37.5°	2101.4	2096.8	2146.1	2247.7	2477.1	2429.4	2418.6	2503.3	2942.0	2960.5
40°	1732.0	1725.8	1724.3	1641.1	1584.2	2019.8	1990.6	1939.8	2320.1	2357.0
42.5°	1396.3	1402.5	1407.1	1225.5	1142.3	1558.0	1541.1	1488.7	1819.7	1862.8
45°	1096.1	1094.6	1103.8	912.9	889.8	996.1	1151.6	1110.0	1373.3	1419.4
47.5°	568.1	588.1	712.8	706.6	717.4	706.6	871.4	860.6	1033.0	1106.9
50°	381.8	388.0	398.7	400.3	565.0	520.4	591.2	669.7	723.6	837.5
52.5°	295.6	300.2	272.5	255.6	346.4	384.9	388.0	463.4	505.0	620.4
55°	164.7	184.7	198.6	200.1	190.9	284.8	283.3	343.3	375.6	452.6
57.5°	21.6	26.2	40.0	129.3	127.8	158.6	198.6	249.4	267.9	331.0
60°	1.5	3.1	4.6	20.0	84.7	92.4	135.5	155.5	186.3	232.5
62.5°	0.0	0.0	1.5	4.6	16.9	53.9	70.8	81.6	109.3	152.4
65°	0.0	0.0	1.5	3.1	6.2	20.0	27.7	44.6	64.7	93.9
67.5°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	20.0	33.9	57.0
70°	0.0	0.0	1.5	3.1	4.6	6.2	9.2	12.3	18.5	30.8
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	7.7	9.2	12.3	16.9
75°	0.0	0.0	1.5	3.1	4.6	7.7	7.7	7.7	9.2	10.8
77.5°	0.0	0.0	1.5	3.1	4.6	7.7	6.2	7.7	7.7	7.7
80°	0.0	0.0	1.5	3.1	4.6	7.7	9.2	7.7	6.2	6.2
82.5°	0.0	0.0	1.5	4.6	4.6	10.8	10.8	10.8	4.6	4.6
85°	0.0	0.0	3.1	4.6	7.7	12.3	12.3	9.2	4.6	3.1
87.5°	0.0	0.0	1.5	3.1	3.1	6.2	9.2	7.7	3.1	1.5
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°
14319.1	0°	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1	14319.1
14185.1	2.5°	14299.1	14260.6	14332.9	14342.2	14311.4	14272.9	14183.6	14175.9	14020.4
13871.1	5°	14028.1	13965.0	14011.2	14042.0	14031.2	13989.6	13952.7	13918.8	13778.7
13361.5	7.5°	13523.1	13500.0	13521.6	13544.7	13589.3	13544.7	13529.3	13493.9	13355.3
12859.6	10°	12962.8	12919.6	13001.2	12990.5	12978.1	12965.8	12901.2	12907.3	12744.1
12176.1	12.5°	12274.6	12202.2	12280.7	12290.0	12280.7	12237.6	12165.3	12196.1	12046.7
11252.3	15°	11349.3	11341.6	11398.6	11435.6	11461.7	11415.5	11390.9	11406.3	11317.0
10063.8	17.5°	10213.2	10313.2	10499.5	10562.6	10564.2	10611.9	10598.1	10579.6	10513.4
8747.5	20°	8876.9	9069.3	9355.7	9649.7	9734.4	9694.4	9675.9	9709.7	9611.2
7511.3	22.5°	7643.7	7808.4	8141.0	8570.5	8818.4	8843.0	8838.4	8809.1	8770.6
6521.4	25°	6596.8	6743.1	7061.8	7454.4	7930.1	8000.9	8004.0	7994.7	7960.9
5623.9	27.5°	5713.2	5890.2	6065.7	6416.7	6923.2	7215.7	7178.8	7168.0	7155.7
4866.4	30°	4912.6	5135.8	5300.6	5519.2	5973.3	6369.0	6407.5	6389.0	6359.8
4239.8	32.5°	4278.3	4410.7	4620.1	4767.9	5094.3	5542.3	5690.1	5676.2	5650.0
3674.8	35°	3727.2	3779.5	3944.2	4109.0	4326.0	4760.2	4978.8	4948.0	4943.4
2994.4	37.5°	3069.8	3245.3	3336.1	3502.4	3654.8	3992.0	4293.7	4279.9	4281.4
2407.8	40°	2478.6	2580.2	2760.4	2900.5	3040.6	3286.9	3622.5	3631.7	3628.6
1864.4	42.5°	1902.8	2001.4	2190.7	2343.1	2467.8	2620.3	2940.5	2951.3	2965.1
1451.8	45°	1485.6	1548.8	1687.3	1845.9	1978.3	2070.7	2313.9	2383.2	2384.7
1125.4	47.5°	1153.1	1225.5	1324.0	1476.4	1605.7	1671.9	1849.0	1942.9	1938.3
863.7	50°	905.2	971.4	1051.5	1171.6	1311.7	1364.0	1494.9	1587.2	1582.6
651.2	52.5°	692.8	777.5	848.3	940.6	1077.7	1122.3	1216.2	1322.4	1307.1
477.3	55°	525.0	611.2	677.4	754.4	879.1	936.0	1000.7	1085.4	1088.4
369.5	57.5°	395.7	484.9	545.0	623.5	717.4	780.5	829.8	920.6	919.1
252.5	60°	283.3	360.2	432.6	514.2	586.6	658.9	692.8	779.0	782.1
178.6	62.5°	204.8	277.1	346.4	417.2	481.9	552.7	583.5	651.2	660.5
117.0	65°	143.2	194.0	274.0	327.9	400.3	452.6	492.6	551.1	561.9
69.3	67.5°	92.4	140.1	217.1	264.8	331.0	375.6	417.2	463.4	477.3
44.6	70°	55.4	106.2	161.6	212.5	272.5	312.5	352.5	392.6	400.3
21.6	72.5°	35.4	73.9	117.0	172.4	218.6	261.7	297.1	326.4	303.3
13.9	75°	20.0	50.8	92.4	135.5	177.0	218.6	247.9	263.3	210.9
9.2	77.5°	12.3	36.9	75.4	109.3	137.0	175.5	194.0	203.2	150.9
6.2	80°	7.7	27.7	63.1	89.3	89.3	129.3	150.9	158.6	109.3
4.6	82.5°	6.2	20.0	49.3	67.7	60.0	97.0	118.5	120.1	77.0
3.1	85°	4.6	15.4	30.8	44.6	41.6	67.7	69.3	77.0	50.8
3.1	87.5°	3.1	9.2	18.5	26.2	23.1	32.3	36.9	41.6	27.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14319.1
13898.8
13666.3
13326.1
12688.7
12003.6
11209.2
10414.8
9540.4
8696.7
7846.9
7083.3
6322.8
5580.8
4892.6
4232.1
3574.8
2918.9
2344.7
1921.3
1582.6
1308.6
1088.4
916.0
774.4
657.4
558.8
475.7
394.1
281.7
200.1
141.6
101.6
70.8
46.2
24.6
0.0

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