

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: P637145

Luminaire Tested: **IFLD-S-SA2C-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637145  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14458.6 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

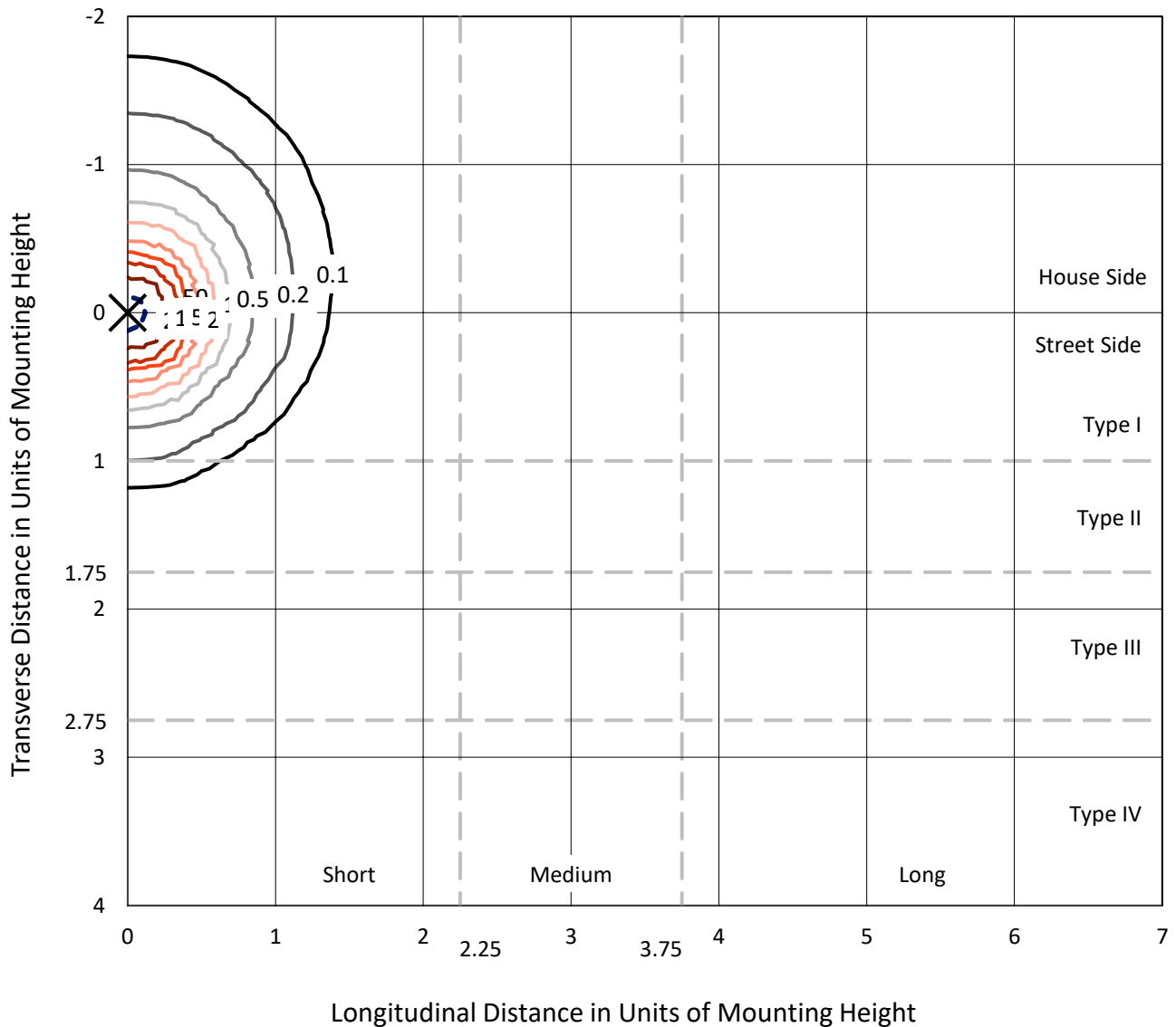
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

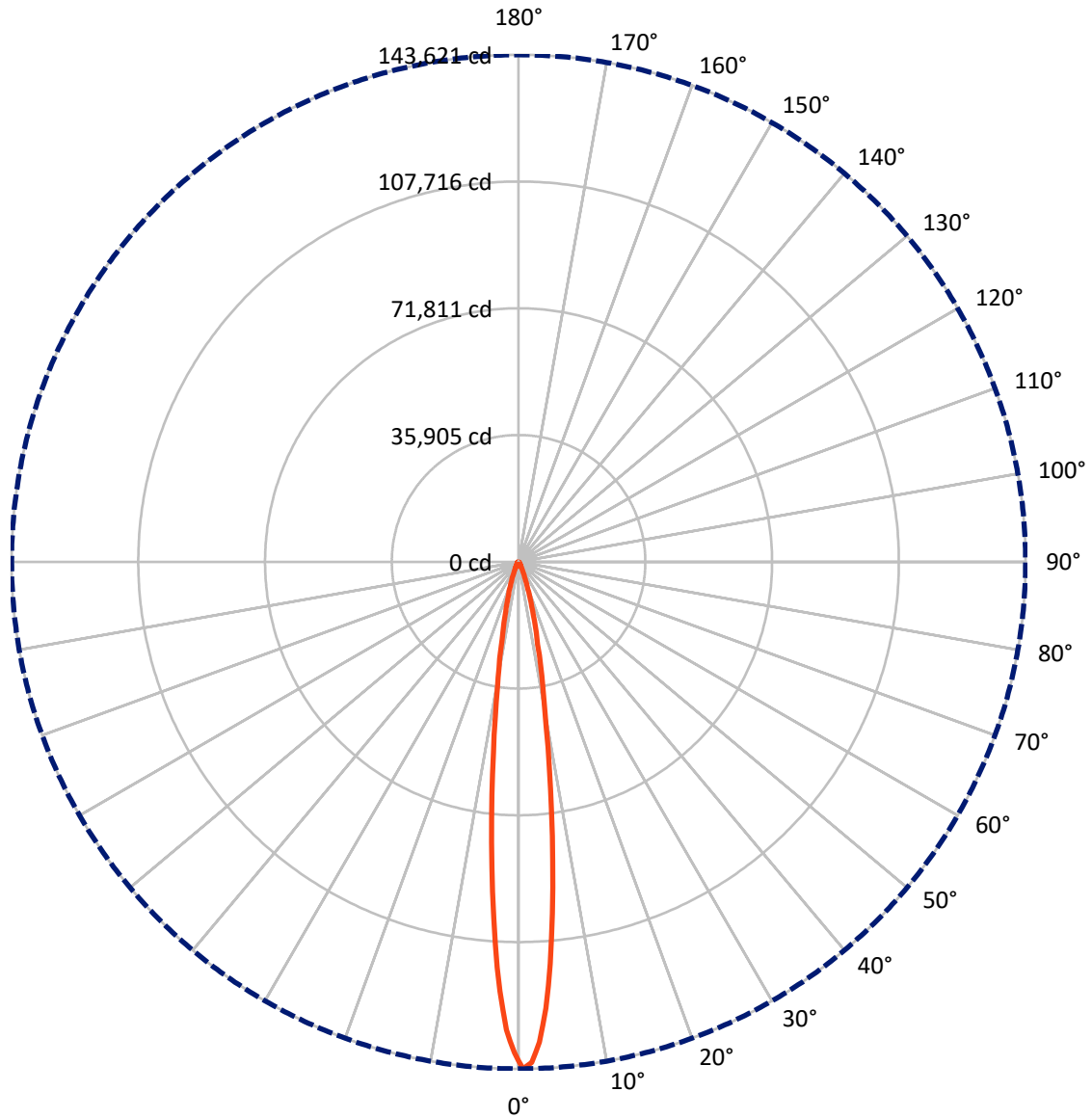
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 359.1 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
<b>House Side</b>	Lumens	7405.5	0.0	7405.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	7053.2	0.0	7053.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	14458.6	0.0	14458.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7299.2	50.5
10°-20°	4672.9	32.3
20°-30°	1404.6	9.7
30°-40°	457.3	3.2
40°-50°	266.1	1.8
50°-60°	176.8	1.2
60°-70°	106.4	0.7
70°-80°	54.7	0.4
80°-90°	20.8	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°	14458.6	100.0
0°-180°	14458.6	100.0

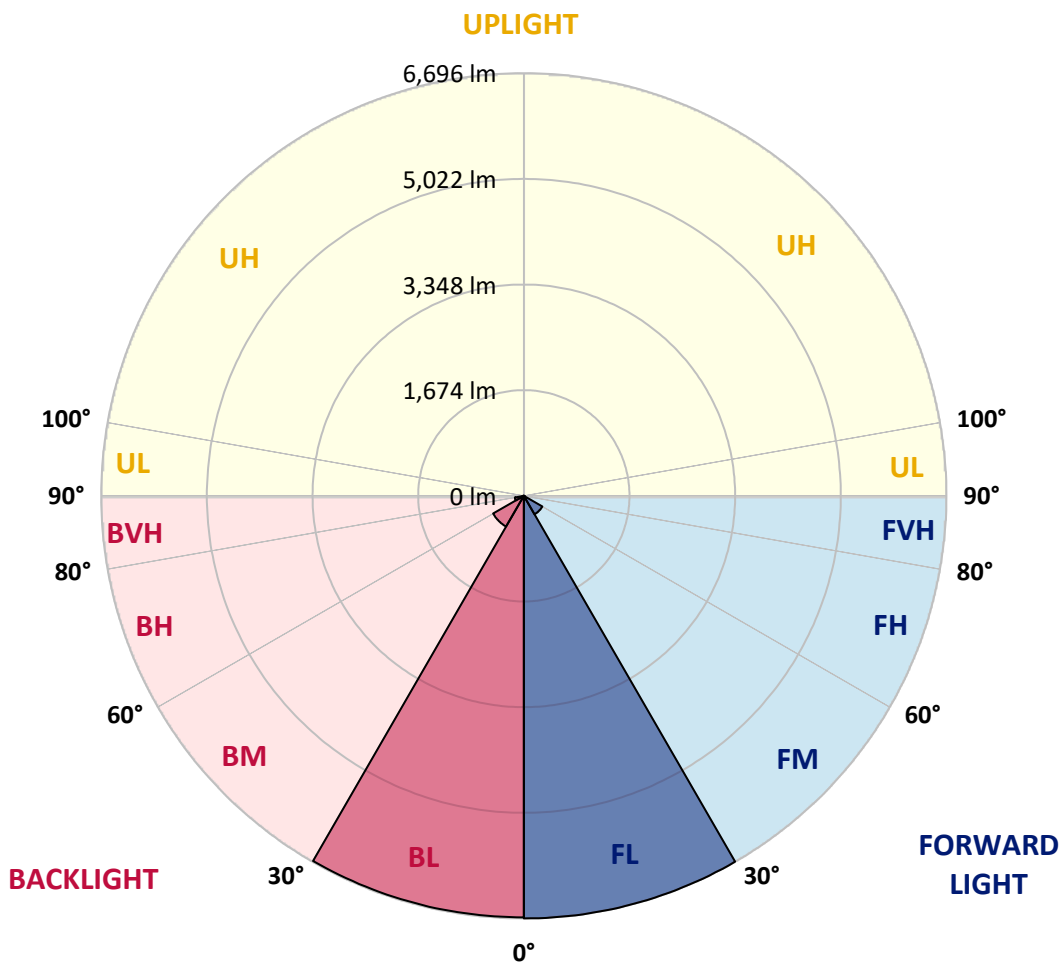


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6696.3	46.3			
FM (30°-60°)	337.9	2.3			
FH (60°-80°)	15.9	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6680.4	46.2	B5		
BM (30°-60°)	562.3	3.9	B1/1000		
BH (60°-80°)	145.2	1.0	B1/500		G0/660
BVH (80°-90°)	17.6	0.1			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°	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4
1°	141901.7	141468.6	140350.5	141145.8	141845.0	141641.9	141627.7	141552.1	141446.6	142274.9
2°	136229.3	135949.0	134295.5	134977.4	135971.1	135246.7	135700.2	135301.8	135309.7	136298.6
3°	126667.3	126820.0	124182.3	125421.6	126802.7	125046.8	125591.7	126615.3	125542.9	125220.1
4°	114239.1	112913.2	111472.3	112732.1	113089.6	112067.5	113072.2	114325.8	112836.0	112902.2
5°	100050.4	99070.9	97365.4	98143.3	97256.7	97579.6	99085.1	99601.6	98562.2	97253.6
6°	85461.6	84765.6	82633.3	83754.6	83439.6	83257.0	85157.7	83582.9	84149.9	83357.7
7°	71087.1	69786.3	68739.1	69813.1	69882.4	69332.8	71800.4	71513.8	70482.4	70243.0
8°	58896.7	57599.1	56712.5	57512.5	58035.3	57172.3	58332.9	59095.1	58288.8	58361.3
9°	47503.2	47274.8	46041.8	47087.4	47655.9	46731.5	48016.6	48292.2	47537.8	47904.8
10°	39004.1	38738.0	37753.7	38177.4	39119.1	38016.7	39249.8	39339.5	38738.0	38909.6
12.5°	24103.6	23996.5	23969.7	24031.1	24018.5	24213.8	24528.7	24169.7	24122.5	23528.8
15°	15579.3	15738.3	15574.6	15889.5	15935.2	16119.4	15927.3	15637.5	15084.8	14810.8
17.5°	9722.7	9925.8	10206.1	10667.5	11129.0	11182.5	10927.4	10587.2	10319.5	10026.6
20°	5593.6	5692.8	5650.3	6203.1	7396.7	7721.1	7392.0	7034.5	6711.7	6415.6
22.5°	3475.5	3439.3	3505.5	3691.3	4080.3	5083.4	4814.1	4456.6	4222.0	3977.9
25°	2130.7	2170.0	2144.8	2247.2	2422.0	2847.2	2908.6	2754.3	2634.6	2508.6
27.5°	1371.6	1371.6	1382.7	1439.3	1559.0	1544.9	1872.4	1752.7	1688.2	1626.7
30°	952.7	955.9	955.9	989.0	1015.7	968.5	1053.5	1207.9	1177.9	1130.7
32.5°	707.1	716.5	724.4	741.7	719.7	669.3	689.8	869.3	852.0	834.6
35°	538.6	546.4	565.3	574.8	543.3	511.8	492.9	639.4	647.2	642.5
37.5°	392.1	396.8	431.5	467.7	431.5	403.1	392.1	491.3	529.1	524.4
40°	300.8	302.4	308.7	349.6	349.6	327.6	330.7	366.9	433.1	433.1
42.5°	258.3	258.3	264.6	258.3	259.8	283.5	291.3	296.1	366.9	366.9
45°	223.6	223.6	226.8	211.0	195.3	244.1	250.4	252.0	308.7	316.5
47.5°	187.4	187.4	193.7	173.2	165.4	193.7	211.0	215.7	266.1	272.4
50°	138.6	140.2	159.1	141.7	146.5	149.6	182.7	185.8	225.2	239.4
52.5°	92.9	92.9	96.1	110.2	127.6	122.8	148.0	159.1	179.5	198.4
55°	75.6	75.6	74.0	70.9	94.5	102.4	108.7	132.3	146.5	170.1
57.5°	52.0	55.1	50.4	58.3	61.4	77.2	81.9	103.9	111.8	143.3
60°	6.3	7.9	11.0	42.5	40.9	52.0	61.4	81.9	91.3	110.2
62.5°	1.6	1.6	3.1	7.9	28.3	34.6	48.8	56.7	66.1	85.0
65°	0.0	0.0	1.6	3.1	6.3	18.9	25.2	33.1	47.2	59.8
67.5°	0.0	0.0	1.6	3.1	3.1	7.9	12.6	20.5	25.2	44.1
70°	0.0	0.0	1.6	3.1	3.1	6.3	7.9	9.4	17.3	23.6
72.5°	0.0	0.0	1.6	3.1	4.7	6.3	7.9	7.9	7.9	15.7
75°	0.0	0.0	1.6	3.1	4.7	6.3	7.9	7.9	6.3	6.3
77.5°	0.0	0.0	1.6	3.1	6.3	7.9	9.4	7.9	4.7	4.7
80°	0.0	0.0	1.6	4.7	7.9	11.0	12.6	9.4	4.7	3.1
82.5°	0.0	0.0	3.1	6.3	9.4	12.6	17.3	14.2	6.3	3.1
85°	0.0	0.0	1.6	4.7	9.4	12.6	25.2	17.3	7.9	1.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.1	9.4	6.3	3.1	1.6
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°
143621.4	0°	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4	143621.4
141319.0	1°	142306.4	142405.6	142081.2	142583.6	142407.2	141374.1	141032.4	140627.7
135717.5	2°	135301.8	135807.3	135832.5	136390.0	136382.1	135177.4	134804.2	135492.4
125875.2	3°	125494.1	126083.1	125552.3	126542.9	126245.3	124783.9	124404.3	125185.4
113425.0	4°	113086.4	112974.6	112791.9	112228.2	112922.6	111925.8	111174.6	112234.4
98989.0	5°	98790.6	98541.8	98185.9	98018.9	98535.5	97897.7	96352.8	97900.8
84790.8	6°	84894.7	83823.9	83771.9	83679.0	83731.0	81945.2	82052.2	83205.0
69419.4	7°	70153.2	70350.1	69948.5	70592.6	70101.3	68891.8	68425.7	69639.8
58679.4	8°	58269.9	58021.1	57714.1	58676.2	57824.3	57030.6	56487.3	57446.3
47964.6	9°	47874.8	47444.9	47133.1	47084.3	47216.6	45726.8	46029.2	46755.2
39004.1	10°	39018.3	38312.8	38484.4	38530.1	38385.2	37408.9	37418.3	37668.7
23922.5	12.5°	23837.4	23491.0	23577.6	23624.8	23919.3	23576.0	23091.0	22741.4
15083.2	15°	14982.4	14733.6	15242.3	15584.0	15514.7	15209.2	14980.9	14664.3
10026.6	17.5°	9933.7	10259.7	10261.3	10573.1	10604.6	10299.1	10122.7	9837.6
6521.2	20°	6497.5	6633.0	6914.9	7135.3	7262.9	7029.8	6818.8	6623.5
4066.1	22.5°	4066.1	4302.3	4478.7	4765.3	4881.8	4711.7	4562.1	4403.1
2538.5	25°	2496.0	2664.5	2811.0	3059.8	3218.8	3137.0	3000.0	2888.1
1639.3	27.5°	1664.5	1735.4	1807.8	1979.5	2144.8	2099.2	2044.1	1976.3
1155.9	30°	1173.2	1179.5	1256.7	1352.7	1463.0	1491.3	1466.1	1431.5
848.8	32.5°	864.6	889.7	926.0	985.8	1059.8	1127.5	1114.9	1099.2
648.8	35°	667.7	705.5	735.4	781.1	820.5	885.0	896.0	891.3
533.8	37.5°	544.9	577.9	607.9	634.6	667.7	711.8	746.4	748.0
440.9	40°	452.0	481.9	521.3	541.7	565.3	598.4	640.9	644.1
373.2	42.5°	381.1	409.4	448.8	474.0	491.3	522.8	565.3	571.6
319.7	45°	327.6	344.9	385.8	415.7	433.1	453.5	499.2	505.5
275.6	47.5°	285.0	302.4	327.6	370.1	385.8	404.7	440.9	452.0
244.1	50°	250.4	267.7	289.8	327.6	351.2	366.9	396.8	412.6
212.6	52.5°	222.0	239.4	263.0	292.9	319.7	333.9	362.2	382.7
173.2	55°	185.8	215.7	233.1	259.8	296.1	308.7	330.7	357.5
151.2	57.5°	162.2	187.4	212.6	234.6	270.9	286.6	308.7	333.9
119.7	60°	137.0	160.6	190.5	209.4	244.1	264.6	288.2	311.8
91.3	62.5°	108.7	140.2	160.6	187.4	220.5	247.2	266.1	289.8
70.9	65°	80.3	115.0	138.6	166.9	198.4	226.8	242.5	267.7
50.4	67.5°	58.3	89.8	118.1	144.9	174.8	203.1	218.9	240.9
31.5	70°	45.7	66.1	97.6	121.3	152.8	176.4	193.7	207.9
20.5	72.5°	26.8	50.4	78.7	105.5	133.9	149.6	162.2	174.8
9.4	75°	17.3	39.4	64.6	88.2	108.7	122.8	133.9	144.9
4.7	77.5°	11.0	28.3	52.0	74.0	83.5	100.8	110.2	116.5
3.1	80°	6.3	22.0	45.7	59.8	67.7	78.7	88.2	96.1
3.1	82.5°	4.7	18.9	37.8	50.4	50.4	63.0	67.7	67.7
1.6	85°	3.1	15.7	29.9	47.2	37.8	47.2	44.1	44.1
1.6	87.5°	3.1	11.0	14.2	20.5	17.3	20.5	20.5	23.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
143621.4  
139024.6  
132577.4  
121716.2  
108398.3  
93822.1  
79863.3  
66337.5  
54707.8  
44487.5  
35964.8  
22528.8  
14502.1  
9766.8  
6555.8  
4318.0  
2823.6  
1937.0  
1407.9  
1086.6  
875.6  
737.0  
639.4  
566.9  
503.9  
453.5  
414.2  
382.7  
359.0  
335.4  
318.1  
300.8  
272.4  
242.5  
212.6  
177.9  
144.9  
113.4  
86.6  
63.0  
42.5  
23.6  
0.0

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