

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: P637554

Luminaire Tested: **IFLD-S-SA3A-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10808.3 lumens
Efficiency: N/A
Efficacy: 114.0 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): 94.8
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



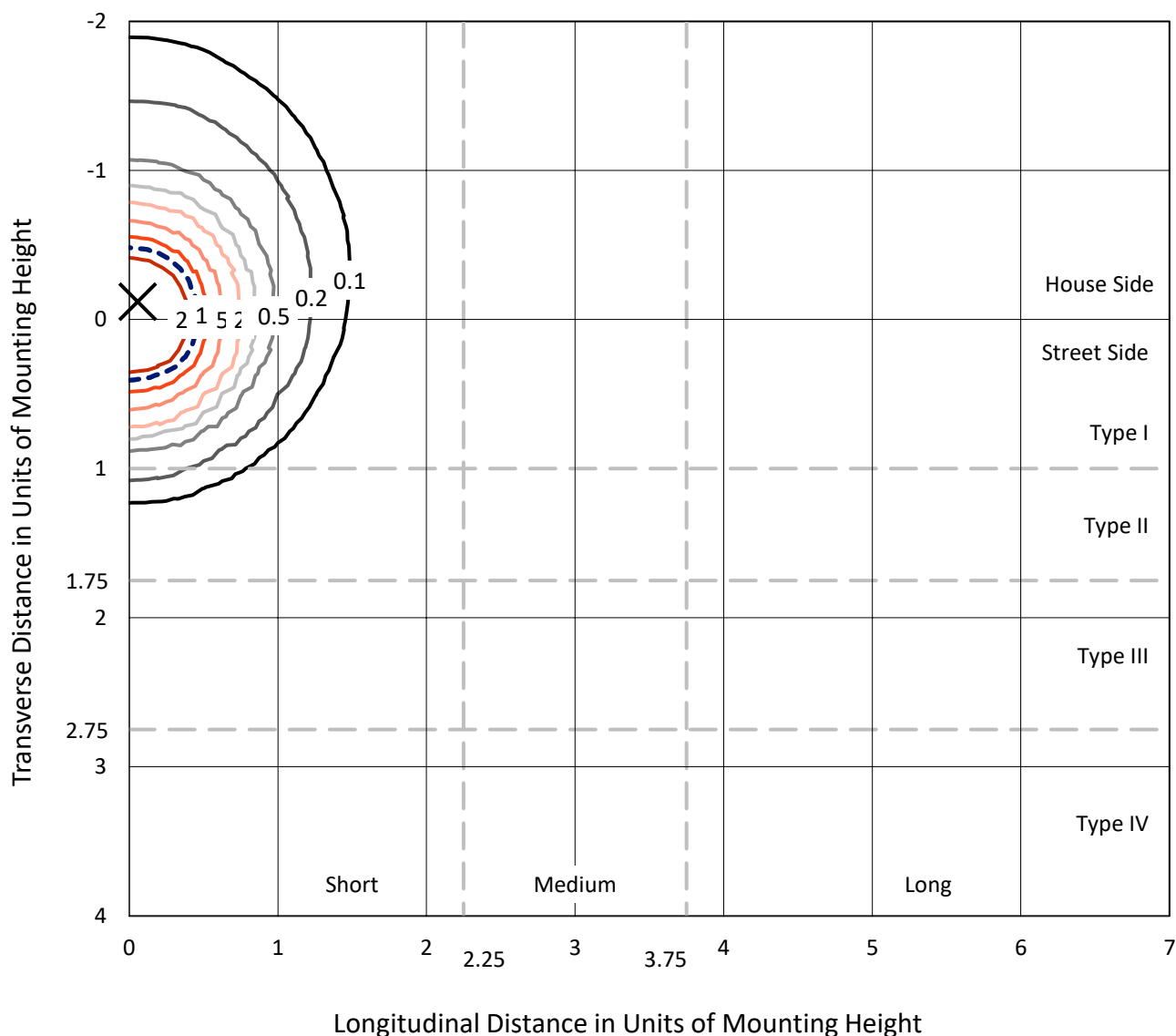
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

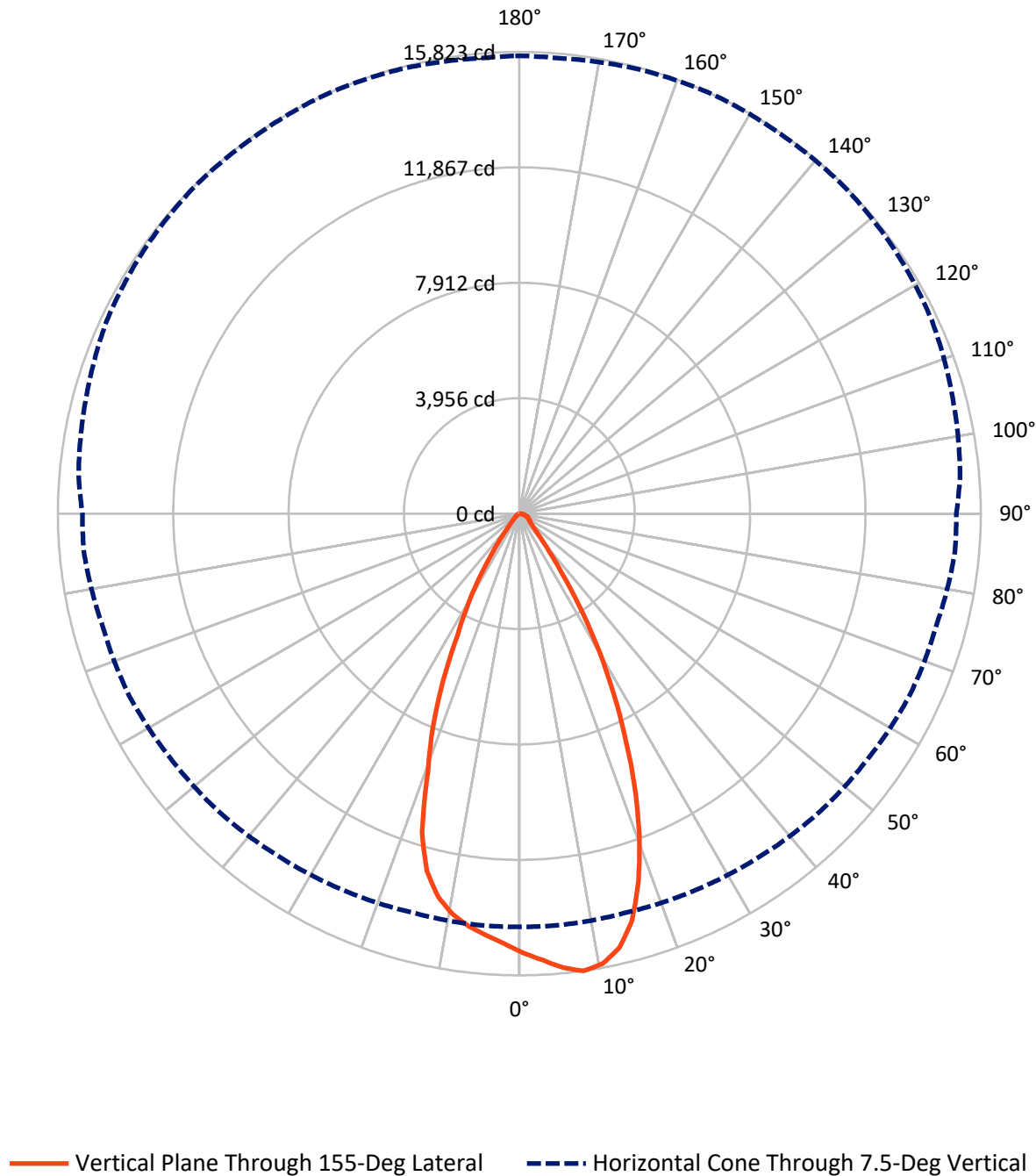


Based on 20 foot mounting height. Maximum calculated value = 38.3 fc

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	5966.6	0.0	5966.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4841.7	0.0	4841.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	10808.3	0.0	10808.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1435.8	13.3
10°-20°	3722.9	34.4
20°-30°	3411.3	31.6
30°-40°	1378.1	12.8
40°-50°	404.3	3.7
50°-60°	226.0	2.1
60°-70°	137.3	1.3
70°-80°	69.8	0.6
80°-90°	22.8	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°	10808.3	100.0
0°-180°	10808.3	100.0

Coefficient of Utilization



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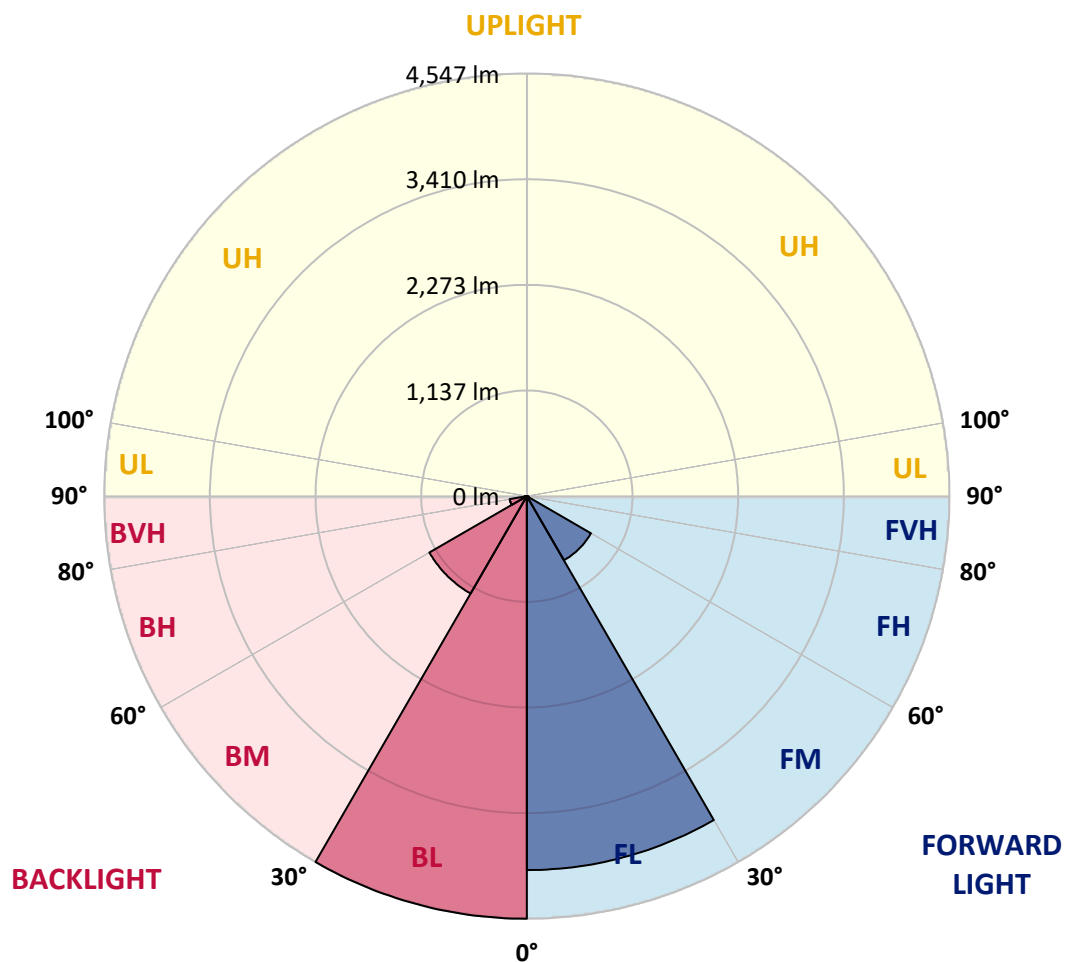
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4023.1	37.2			
FM	(30°-60°)	797.3	7.4			
FH	(60°-80°)	19.3	0.2			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	4546.8	42.1	B4/5000		
BM	(30°-60°)	1211.2	11.2	B2/2500		
BH	(60°-80°)	187.7	1.7	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8
2.5°	14730.3	14780.1	14680.4	14746.5	14797.6	14919.7	14929.7	14972.1	14987.0	15097.9
5°	14451.1	14489.7	14408.7	14497.2	14569.5	14677.9	14761.4	14878.6	14943.4	15074.3
7.5°	14160.7	14169.4	14153.2	14246.7	14355.1	14504.7	14608.1	14761.4	14801.3	14988.3
10°	13809.2	13745.7	13776.8	13913.9	14075.9	14305.3	14376.3	14529.6	14600.6	14791.3
12.5°	13248.4	13280.8	13242.2	13416.6	13551.2	13811.7	13886.5	14041.1	14176.9	14345.2
15°	12458.2	12439.5	12518.0	12653.9	12799.7	13006.6	13127.5	13295.8	13399.2	13573.7
17.5°	10682.2	10745.8	11069.8	11410.1	11709.2	11951.0	12095.5	12235.1	12309.9	12499.4
20°	9225.3	9145.5	9189.1	9381.1	10232.3	10602.5	10754.5	10788.2	10819.3	10968.9
22.5°	7596.3	7570.2	7716.0	7931.6	8133.5	8987.2	9194.1	9115.6	9180.4	9321.2
25°	5640.8	5773.0	5902.6	6316.4	6578.1	6996.8	7389.4	7424.3	7448.0	7536.5
27.5°	4591.4	4545.3	4542.8	4658.7	5045.1	5394.1	5728.1	5805.4	5791.7	5876.4
30°	3609.3	3594.4	3542.0	3569.5	3530.8	3841.2	3998.2	4316.0	4298.6	4301.1
32.5°	2603.6	2547.5	2526.3	2567.4	2527.5	2498.9	2636.0	2994.9	2988.7	3013.6
35°	1575.3	1567.9	1585.3	1621.5	1541.7	1539.2	1567.9	1905.6	1946.8	1986.6
37.5°	869.9	862.5	876.2	1009.5	983.3	959.7	967.1	1145.4	1263.8	1293.7
40°	573.3	572.1	582.0	605.7	650.6	641.9	645.6	725.4	837.5	863.7
42.5°	383.9	385.1	391.3	418.8	425.0	469.9	462.4	481.1	585.8	608.2
45°	306.6	305.3	309.1	296.6	304.1	350.2	355.2	356.4	446.2	459.9
47.5°	241.8	241.8	245.5	229.3	225.6	254.2	280.4	284.2	356.4	375.1
50°	169.5	169.5	188.2	180.7	189.4	198.2	226.8	230.6	291.6	311.6
52.5°	124.6	127.1	129.6	130.9	159.5	158.3	183.2	200.7	220.6	255.5
55°	94.7	97.2	91.0	97.2	118.4	132.1	137.1	162.0	175.7	214.4
57.5°	62.3	68.5	63.6	74.8	79.8	102.2	109.7	133.4	142.1	175.7
60°	8.7	10.0	16.2	52.3	56.1	67.3	84.7	105.9	114.7	143.3
62.5°	1.2	1.2	3.7	8.7	37.4	44.9	63.6	73.5	84.7	107.2
65°	0.0	0.0	1.2	2.5	7.5	26.2	32.4	39.9	58.6	77.3
67.5°	0.0	0.0	1.2	2.5	3.7	8.7	13.7	26.2	33.7	53.6
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	19.9	31.2
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	7.5	8.7	19.9
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	7.5	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	5.0	7.5	8.7	7.5	6.2	6.2
80°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	7.5	5.0	3.7
82.5°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	8.7	5.0	3.7
85°	0.0	0.0	1.2	3.7	5.0	6.2	10.0	8.7	5.0	2.5
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	5.0	3.7	2.5	1.2
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°
15056.8	0°	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8	15056.8
15095.4	2.5°	15207.6	15263.7	15362.2	15389.6	15474.3	15377.1	15323.5	15328.5	15212.6
15058.0	5°	15207.6	15336.0	15508.0	15590.2	15652.5	15647.6	15633.8	15599.0	15514.2
14983.3	7.5°	15167.7	15377.1	15613.9	15723.6	15798.4	15792.1	15823.3	15767.2	15663.8
14849.9	10°	15039.4	15221.3	15513.0	15602.7	15723.6	15726.1	15687.4	15698.7	15514.2
14362.6	12.5°	14635.5	14777.6	15033.1	15135.3	15282.4	15306.1	15263.7	15247.5	15073.0
13563.7	15°	13854.1	13936.4	14193.1	14295.3	14441.1	14421.2	14463.6	14446.1	14292.8
12484.4	17.5°	12711.2	12737.4	13006.6	13092.6	13229.7	13283.3	13219.7	13300.7	13168.6
10995.0	20°	11072.3	11213.1	11516.0	11648.1	11727.9	11823.8	11740.3	11831.3	11676.8
9187.9	22.5°	9409.7	9493.2	9767.4	9958.1	10106.4	10125.1	10094.0	10157.5	9949.4
7595.1	25°	7593.8	7732.2	7949.0	8198.3	8344.1	8433.9	8352.8	8394.0	8360.3
5890.1	27.5°	5989.8	6113.2	6276.5	6462.2	6681.5	6798.7	6733.9	6803.7	6639.2
4392.0	30°	4395.8	4458.1	4642.5	4839.5	5080.0	5222.1	5228.3	5299.4	5202.1
3077.2	32.5°	3099.6	3154.4	3267.9	3398.7	3628.0	3786.3	3761.4	3771.4	3711.5
2005.3	35°	2015.3	2088.8	2169.8	2232.2	2370.5	2545.0	2531.3	2518.8	2477.7
1318.6	37.5°	1347.3	1375.9	1420.8	1476.9	1566.6	1676.3	1712.4	1667.6	1650.1
889.9	40°	911.1	960.9	990.8	1033.2	1075.6	1167.8	1192.7	1184.0	1166.6
623.2	42.5°	646.8	685.5	722.9	764.0	786.4	843.8	892.4	878.7	871.2
473.6	45°	491.1	525.9	569.6	600.7	623.2	656.8	702.9	707.9	696.7
380.1	47.5°	393.8	425.0	459.9	498.5	524.7	545.9	585.8	600.7	593.2
320.3	50°	334.0	357.7	391.3	430.0	458.6	477.3	512.2	528.4	523.5
268.0	52.5°	284.2	312.8	344.0	376.4	411.3	430.0	462.4	486.1	482.3
221.8	55°	235.6	272.9	305.3	337.8	377.6	396.3	425.0	456.2	449.9
188.2	57.5°	205.6	236.8	270.5	301.6	344.0	368.9	395.1	427.5	426.2
154.5	60°	172.0	203.2	240.5	266.7	311.6	346.5	370.2	403.8	406.3
117.2	62.5°	137.1	175.7	204.4	240.5	281.7	322.8	345.2	378.9	391.3
89.7	65°	102.2	144.6	177.0	213.1	251.8	297.9	317.8	351.5	363.9
64.8	67.5°	76.0	108.4	149.6	180.7	224.3	264.2	287.9	319.1	327.8
38.6	70°	57.3	83.5	124.6	152.1	196.9	229.3	253.0	276.7	287.9
26.2	72.5°	33.7	62.3	98.5	130.9	169.5	196.9	214.4	233.1	240.5
12.5	75°	23.7	47.4	77.3	108.4	137.1	159.5	175.7	191.9	199.4
6.2	77.5°	12.5	34.9	61.1	87.2	107.2	125.9	142.1	154.5	159.5
5.0	80°	7.5	24.9	49.9	68.5	82.3	98.5	114.7	123.4	122.1
3.7	82.5°	5.0	19.9	36.1	49.9	59.8	72.3	83.5	89.7	89.7
2.5	85°	3.7	13.7	24.9	38.6	39.9	49.9	52.3	58.6	59.8
2.5	87.5°	2.5	8.7	13.7	22.4	21.2	26.2	27.4	31.2	33.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15056.8
15119.1
15541.6
15687.4
15460.6
15033.1
14341.4
13136.2
11664.3
9920.7
8339.1
6681.5
5219.6
3745.2
2441.5
1646.4
1169.0
864.9
695.4
589.5
522.2
479.8
449.9
425.0
406.3
390.1
362.7
327.8
285.4
238.0
196.9
158.3
120.9
88.5
58.6
32.4
0.0

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