

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: P636479

Luminaire Tested: **IFLD-S-SA2D-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636479
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8593.1 lumens
Efficiency: N/A
Efficacy: 69.4 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): 123.9
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



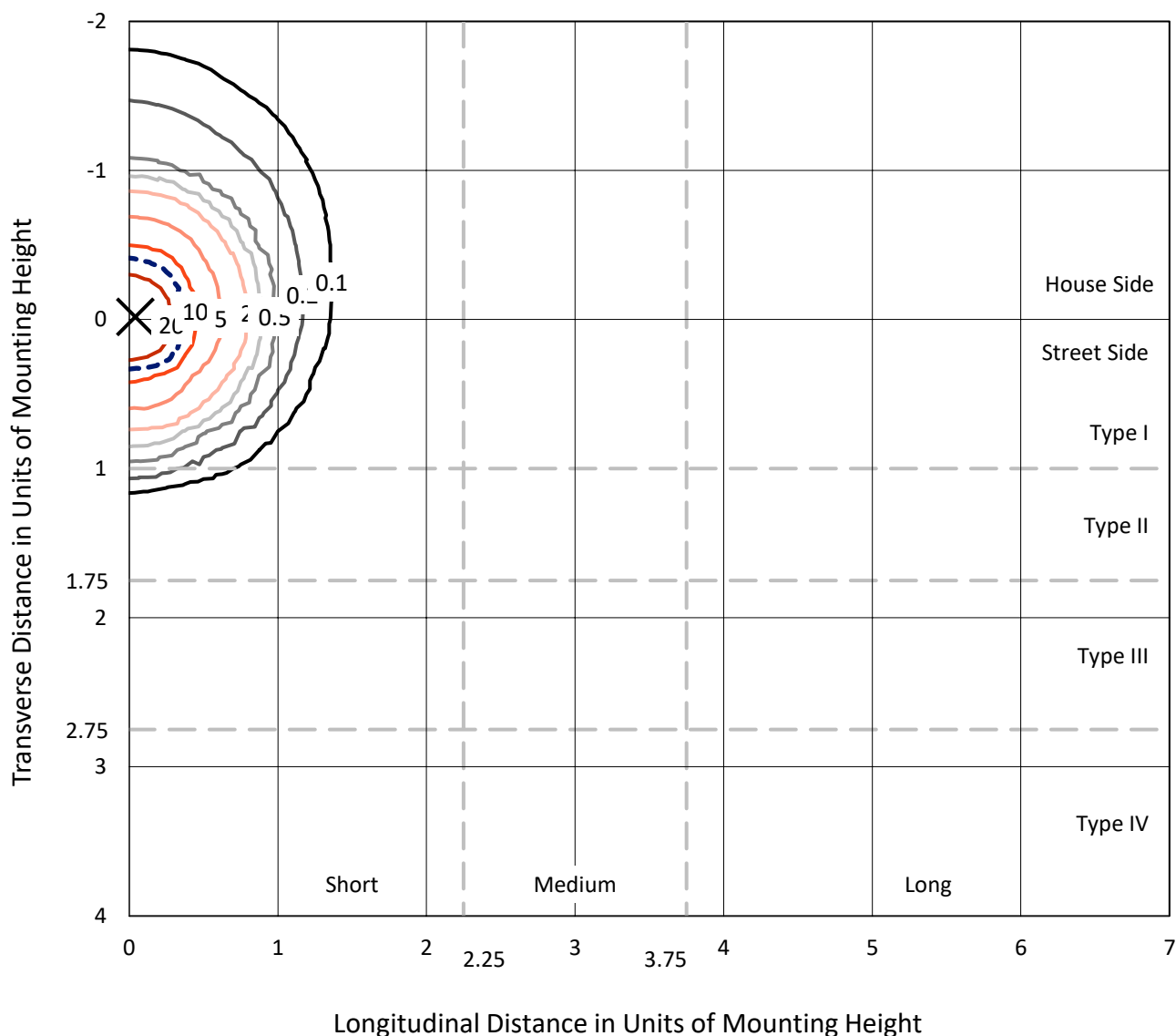
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



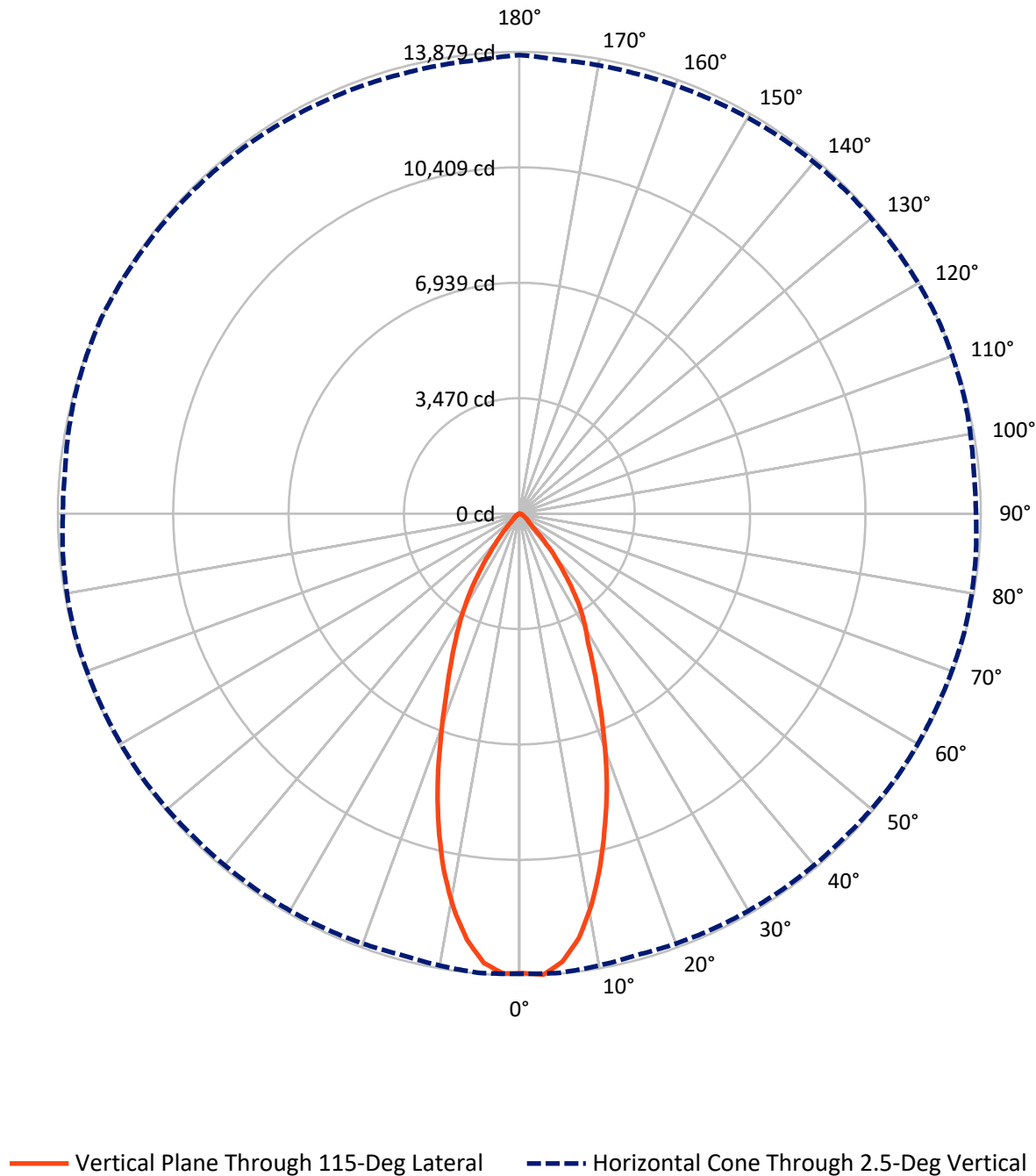
Based on 20 foot mounting height. Maximum calculated value = 34.5 fc

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	4742.4	0.0	4742.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3850.7	0.0	3850.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	8593.1	0.0	8593.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1239.0	14.4
10°-20°	2618.5	30.5
20°-30°	2363.4	27.5
30°-40°	1564.0	18.2
40°-50°	468.5	5.5
50°-60°	187.9	2.2
60°-70°	97.3	1.1
70°-80°	42.3	0.5
80°-90°	12.3	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°	8593.1	100.0
0°-180°	8593.1	100.0

Coefficient of Utilization



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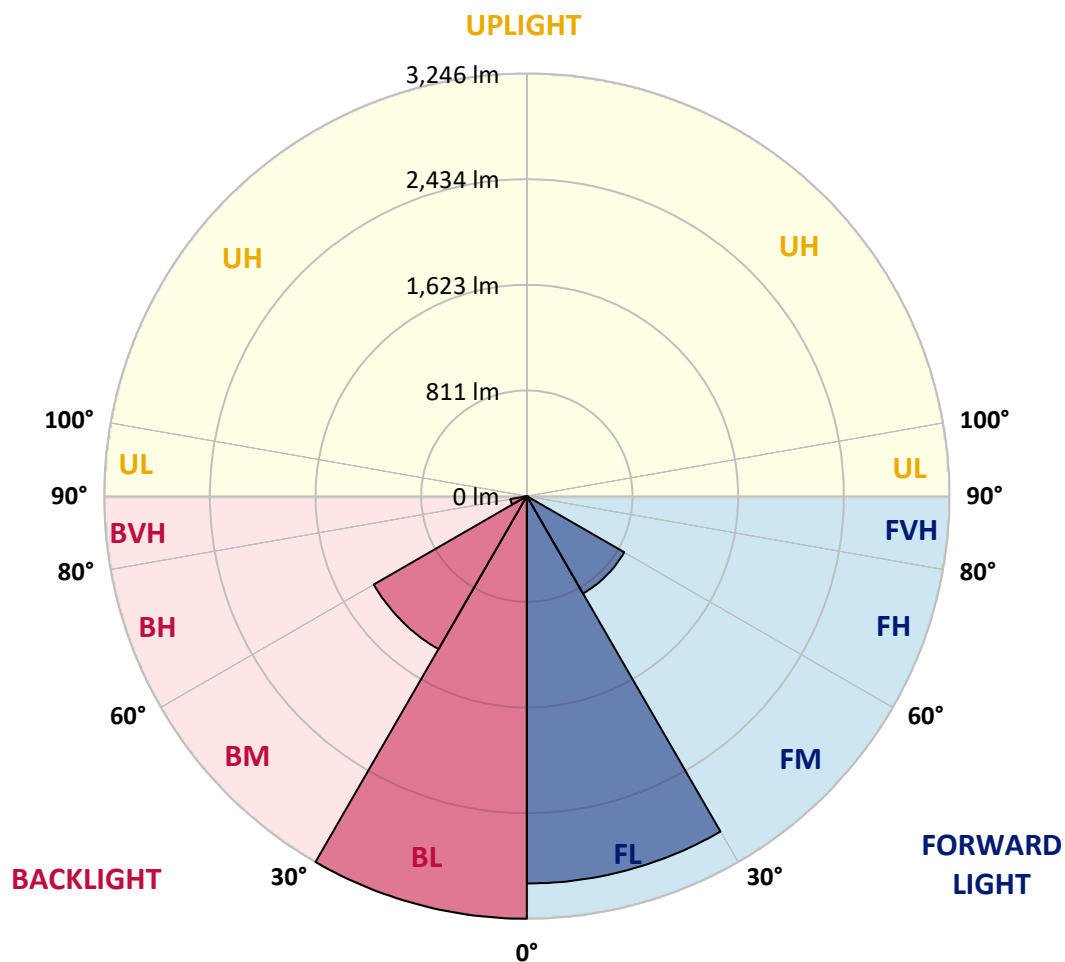
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2975.0	34.6			
FM	(30°-60°)	863.3	10.0			
FH	(60°-80°)	10.7	0.1			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	3245.8	37.8	B4/5000		
BM	(30°-60°)	1357.2	15.8	B2/2500		
BH	(60°-80°)	128.9	1.5	B1/500		G1/500
BVH	(80°-90°)	10.5	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°	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5
2.5°	13831.0	13855.6	13732.6	13774.8	13792.4	13797.6	13841.6	13834.5	13846.8	13781.8
5°	13648.3	13600.8	13509.4	13511.2	13505.9	13456.7	13556.9	13549.8	13528.8	13451.4
7.5°	13026.1	13094.7	12922.4	12918.9	12915.4	12855.7	12987.5	12906.6	12924.2	12813.5
10°	12115.8	12124.6	11971.7	11957.6	11969.9	11892.6	12045.5	12013.8	12047.2	11931.2
12.5°	10999.8	11049.0	10880.3	10855.7	10904.9	10795.9	10919.0	10934.8	10885.6	10869.7
15°	8627.3	8757.3	9077.2	9565.7	9692.3	9600.9	9699.3	9697.5	9718.6	9599.1
17.5°	6572.8	6585.1	6509.5	6743.3	8096.5	8535.9	8557.0	8390.0	8263.5	8219.5
20°	5738.0	5780.2	5711.7	5731.0	5947.2	7235.4	7284.6	7033.3	6817.1	6799.5
22.5°	5073.7	5100.1	5050.9	5066.7	5077.2	5228.4	6084.2	5862.8	5759.1	5680.0
25°	4511.3	4511.3	4485.0	4490.3	4479.7	4256.5	4695.9	4948.9	4889.2	4861.1
27.5°	3998.2	4005.2	3971.8	3991.1	3862.8	3502.6	3449.8	4196.8	4133.5	4082.5
30°	3511.4	3534.2	3502.6	3513.1	3233.7	2938.4	2787.3	3500.8	3579.9	3565.8
32.5°	2643.2	2746.9	3001.7	3012.2	2632.6	2405.9	2339.1	2810.1	3110.7	3084.3
35°	1637.9	1632.7	1643.2	2149.3	2019.3	1864.6	1889.2	2123.0	2462.2	2449.9
37.5°	1249.5	1247.8	1267.1	1216.1	1323.4	1414.7	1434.1	1434.1	1797.9	1799.6
40°	947.3	940.2	938.5	857.6	718.8	1061.5	1029.9	1003.5	1249.5	1275.9
42.5°	604.6	625.6	609.8	522.0	469.2	580.0	646.7	625.6	771.5	790.8
45°	337.4	337.4	323.4	274.2	272.4	293.5	369.1	344.5	395.4	421.8
47.5°	163.4	159.9	175.7	216.2	225.0	217.9	263.6	274.2	298.8	323.4
50°	131.8	131.8	124.8	112.5	186.3	179.3	195.1	209.1	223.2	244.3
52.5°	110.7	110.7	101.9	94.9	107.2	137.1	138.8	165.2	163.4	193.3
55°	56.2	58.0	82.6	82.6	72.1	112.5	114.2	133.6	137.1	161.7
57.5°	5.3	7.0	10.5	51.0	56.2	61.5	86.1	98.4	114.2	124.8
60°	1.8	1.8	3.5	7.0	33.4	42.2	54.5	65.0	79.1	103.7
62.5°	0.0	0.0	1.8	3.5	7.0	26.4	29.9	33.4	47.5	65.0
65°	0.0	0.0	1.8	1.8	3.5	8.8	12.3	21.1	29.9	40.4
67.5°	0.0	0.0	1.8	1.8	3.5	5.3	7.0	10.5	14.1	26.4
70°	0.0	0.0	1.8	1.8	3.5	5.3	5.3	7.0	8.8	12.3
72.5°	0.0	0.0	1.8	1.8	3.5	7.0	5.3	5.3	7.0	8.8
75°	0.0	0.0	1.8	1.8	3.5	5.3	5.3	5.3	5.3	5.3
77.5°	0.0	0.0	1.8	1.8	3.5	5.3	5.3	5.3	3.5	3.5
80°	0.0	0.0	1.8	1.8	3.5	5.3	7.0	7.0	3.5	3.5
82.5°	0.0	0.0	1.8	3.5	3.5	8.8	10.5	8.8	3.5	1.8
85°	0.0	0.0	1.8	1.8	5.3	8.8	8.8	5.3	3.5	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.5	5.3	5.3	1.8	1.8
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°
13813.5	0°	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5	13813.5
13729.1	2.5°	13722.1	13829.3	13878.5	13827.5	13802.9	13767.8	13716.8	13681.6	13688.7
13409.2	5°	13379.4	13491.8	13530.5	13486.6	13449.7	13430.3	13421.5	13439.1	13484.8
12766.0	7.5°	12762.5	12834.6	12876.7	12855.7	12804.7	12862.7	12878.5	12868.0	12934.7
11896.1	10°	11899.6	11978.7	11940.0	11948.8	11889.1	11918.9	11910.2	11948.8	12015.6
10857.4	12.5°	10787.1	10862.7	10832.8	10827.6	10764.3	10820.5	10785.4	10827.6	10915.4
9549.9	15°	9618.5	9665.9	9646.6	9616.7	9560.5	9579.8	9688.8	9681.7	9720.4
8193.2	17.5°	8158.0	8386.5	8511.3	8537.6	8491.9	8530.6	8607.9	8588.6	8676.5
6762.6	20°	6750.3	6980.5	7288.1	7537.6	7542.9	7548.2	7597.4	7609.7	7685.3
5681.8	22.5°	5657.2	5820.6	6151.0	6481.4	6709.9	6757.3	6752.1	6769.6	6790.7
4822.4	25°	4810.1	4929.6	5231.9	5460.4	5861.1	5994.6	6033.3	5994.6	6006.9
4065.0	27.5°	4110.6	4293.4	4393.6	4637.9	5029.8	5339.1	5326.8	5303.9	5307.5
3537.7	30°	3536.0	3732.8	3880.4	3954.2	4249.5	4695.9	4741.6	4676.5	4678.3
3072.0	32.5°	3052.7	3114.2	3332.1	3391.9	3581.7	3987.6	4144.0	4094.8	4086.0
2456.9	35°	2529.0	2562.3	2662.5	2780.3	2892.7	3200.3	3458.6	3412.9	3435.8
1806.6	37.5°	1799.6	1936.7	2033.4	2130.0	2210.9	2404.2	2715.2	2673.1	2695.9
1279.4	40°	1268.9	1330.4	1497.3	1539.5	1659.0	1748.6	2012.3	1998.2	2026.3
794.4	42.5°	780.3	824.2	908.6	949.0	1029.9	1080.8	1235.5	1253.1	1290.0
439.4	45°	442.9	462.2	520.2	564.1	623.9	645.0	699.5	724.1	745.2
340.9	47.5°	337.4	358.5	397.2	435.8	485.1	502.6	541.3	578.2	597.5
263.6	50°	275.9	295.2	335.7	367.3	416.5	432.3	464.0	504.4	529.0
200.3	52.5°	209.1	237.3	286.5	319.9	370.8	390.2	420.0	460.4	483.3
165.2	55°	172.2	193.3	237.3	282.9	330.4	356.8	376.1	425.3	449.9
135.3	57.5°	147.6	163.4	191.6	246.0	286.5	325.1	340.9	386.6	411.2
107.2	60°	112.5	137.1	161.7	203.9	249.6	290.0	307.6	348.0	367.3
77.3	62.5°	93.1	109.0	140.6	163.4	214.4	256.6	274.2	311.1	325.1
51.0	65°	65.0	87.9	117.7	131.8	179.3	219.7	244.3	272.4	286.5
29.9	67.5°	38.7	65.0	93.1	112.5	145.9	186.3	212.6	239.0	251.3
17.6	70°	24.6	51.0	73.8	94.9	114.2	152.9	184.5	207.4	202.1
10.5	72.5°	14.1	31.6	54.5	77.3	94.9	128.3	158.2	175.7	124.8
7.0	75°	8.8	22.8	45.7	63.3	77.3	101.9	130.1	133.6	77.3
3.5	77.5°	7.0	17.6	35.1	51.0	52.7	75.6	91.4	103.7	58.0
3.5	80°	3.5	14.1	29.9	42.2	33.4	52.7	70.3	80.8	45.7
1.8	82.5°	3.5	8.8	22.8	29.9	24.6	40.4	51.0	58.0	38.7
1.8	85°	1.8	7.0	12.3	17.6	17.6	26.4	22.8	28.1	24.6
1.8	87.5°	1.8	3.5	7.0	8.8	7.0	10.5	12.3	12.3	10.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13813.5
13783.6
13579.7
13001.5
12042.0
10931.3
9729.2
8662.4
7669.5
6752.1
5987.6
5312.7
4680.1
4107.1
3456.9
2715.2
2036.9
1332.1
743.4
606.3
539.5
499.1
456.9
421.8
370.8
326.9
286.5
249.6
186.3
110.7
72.1
58.0
47.5
42.2
24.6
8.8
0.0

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