

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: P637728

Luminaire Tested: **IFLD-S-SA3A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9500.4 lumens
Efficiency: N/A
Efficacy: 100.2 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



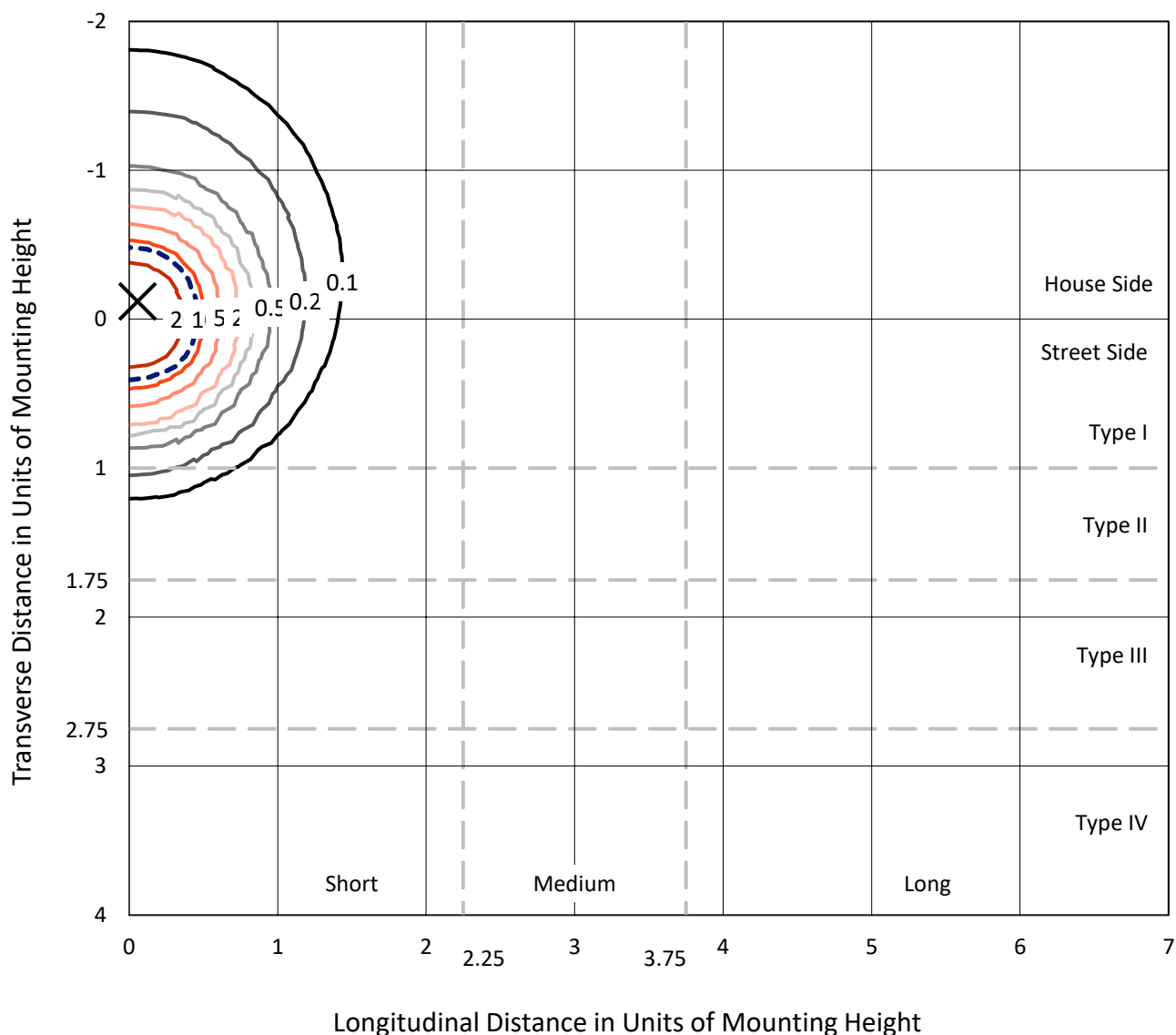
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



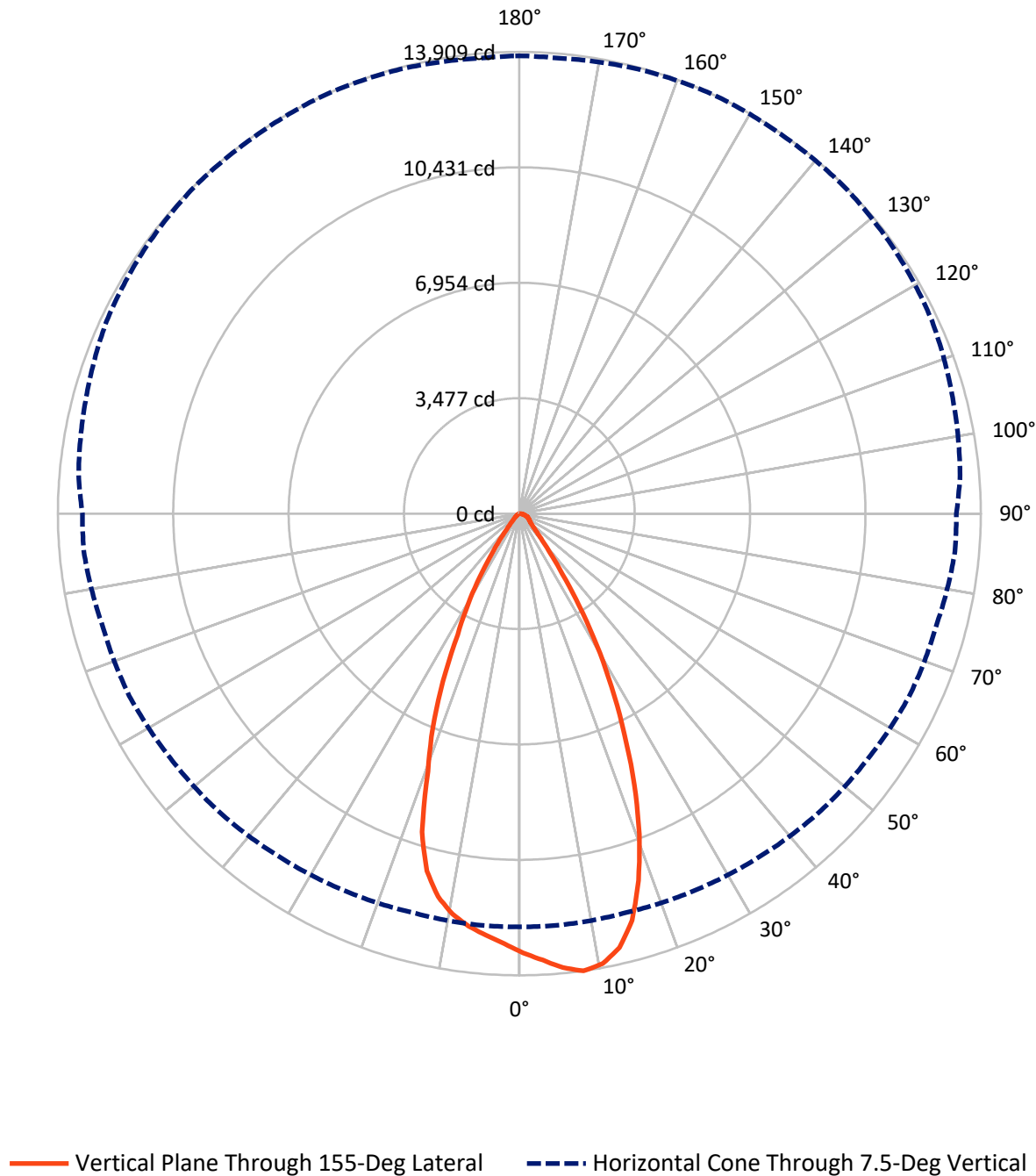
Based on 20 foot mounting height. Maximum calculated value = 33.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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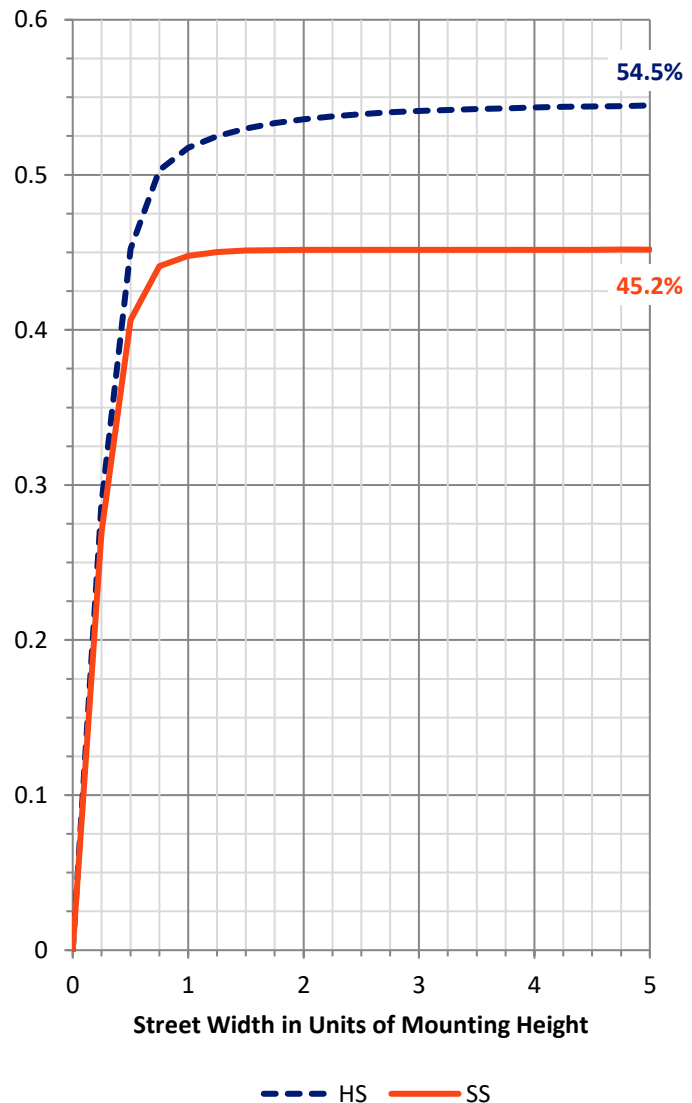
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5244.6	0.0	5244.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4255.8	0.0	4255.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	9500.4	0.0	9500.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1262.0	13.3
10°-20°	3272.4	34.4
20°-30°	2998.5	31.6
30°-40°	1211.4	12.8
40°-50°	355.4	3.7
50°-60°	198.7	2.1
60°-70°	120.7	1.3
70°-80°	61.3	0.6
80°-90°	20.1	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°	9500.4	100.0
0°-180°	9500.4	100.0

Coefficient of Utilization



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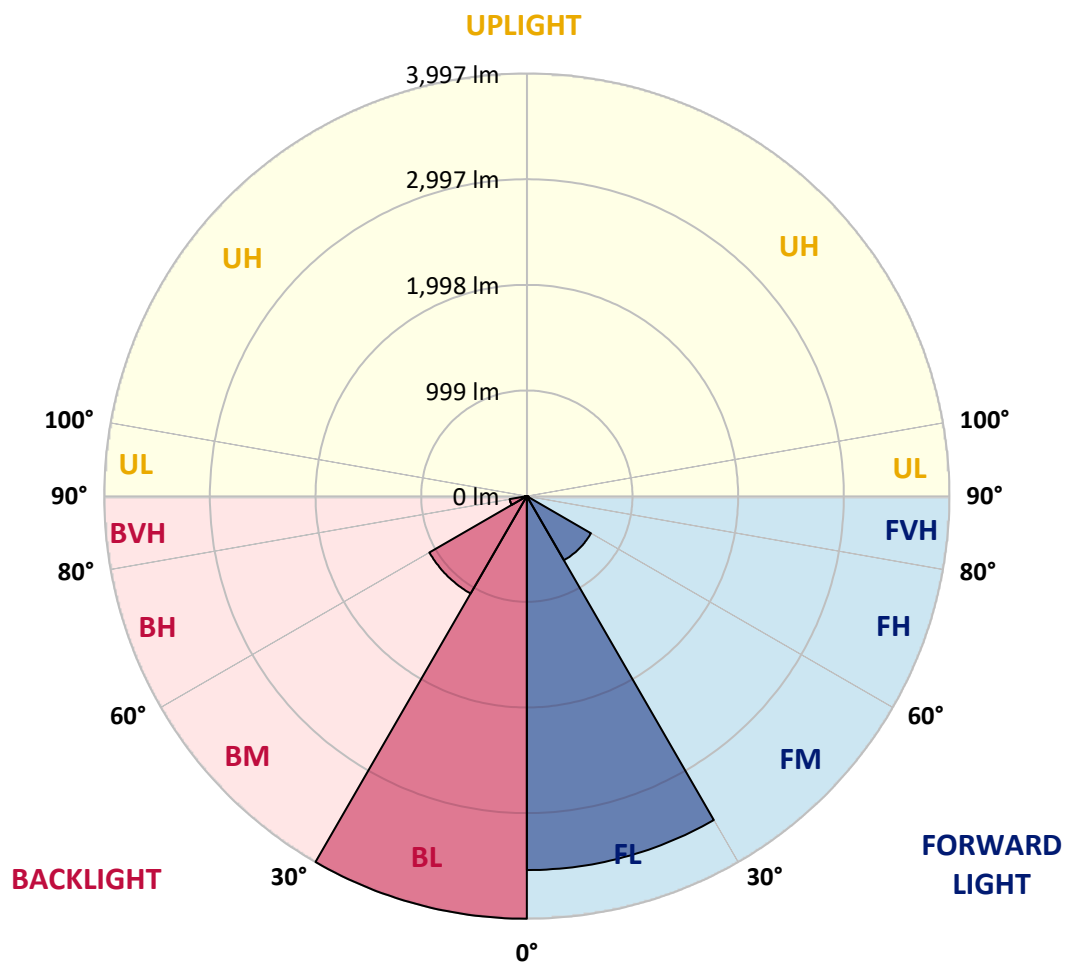
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3536.3	37.2			
FM	(30°-60°)	700.8	7.4			
FH	(60°-80°)	17.0	0.2			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	3996.6	42.1	B4/5000		
BM	(30°-60°)	1064.6	11.2	B2/2500		
BH	(60°-80°)	165.0	1.7	B1/500		G1/500
BVH	(80°-90°)	18.3	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°	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8
2.5°	12947.8	12991.6	12903.9	12962.0	13006.9	13114.3	13123.0	13160.3	13173.4	13270.9
5°	12702.4	12736.3	12665.1	12742.9	12806.4	12901.8	12975.2	13078.1	13135.1	13250.1
7.5°	12447.1	12454.8	12440.6	12522.7	12618.0	12749.5	12840.4	12975.2	13010.2	13174.5
10°	12138.2	12082.3	12109.7	12230.2	12372.6	12574.2	12636.6	12771.4	12833.8	13001.4
12.5°	11645.2	11673.7	11639.7	11793.1	11911.4	12140.4	12206.1	12342.0	12461.4	12609.3
15°	10950.7	10934.2	11003.2	11122.7	11250.8	11432.7	11538.9	11686.8	11777.8	11931.1
17.5°	9389.6	9445.4	9730.3	10029.3	10292.3	10504.8	10631.9	10754.6	10820.3	10986.8
20°	8108.9	8038.8	8077.2	8245.9	8994.1	9319.5	9453.1	9482.7	9510.1	9641.5
22.5°	6677.1	6654.1	6782.3	6971.8	7149.3	7899.7	8081.5	8012.5	8069.5	8193.3
25°	4958.3	5074.4	5188.3	5552.0	5782.1	6150.2	6495.2	6525.9	6546.7	6624.5
27.5°	4035.8	3995.3	3993.1	4095.0	4434.6	4741.3	5034.9	5102.9	5090.8	5165.3
30°	3172.6	3159.4	3113.4	3137.5	3103.6	3376.3	3514.4	3793.7	3778.4	3780.6
32.5°	2288.5	2239.2	2220.6	2256.7	2221.7	2196.5	2317.0	2632.5	2627.0	2648.9
35°	1384.7	1378.1	1393.5	1425.3	1355.1	1352.9	1378.1	1675.0	1711.2	1746.2
37.5°	764.7	758.1	770.1	887.4	864.4	843.5	850.1	1006.8	1110.8	1137.1
40°	503.9	502.8	511.6	532.4	571.9	564.2	567.5	637.6	736.2	759.2
42.5°	337.4	338.5	344.0	368.1	373.6	413.0	406.4	422.9	514.9	534.6
45°	269.5	268.4	271.7	260.7	267.3	307.8	312.2	313.3	392.2	404.2
47.5°	212.5	212.5	215.8	201.6	198.3	223.5	246.5	249.8	313.3	329.7
50°	149.0	149.0	165.4	158.8	166.5	174.2	199.4	202.7	256.3	273.9
52.5°	109.6	111.7	113.9	115.0	140.2	139.1	161.0	176.4	193.9	224.6
55°	83.3	85.4	80.0	85.4	104.1	116.1	120.5	142.4	154.5	188.4
57.5°	54.8	60.3	55.9	65.7	70.1	89.8	96.4	117.2	124.9	154.5
60°	7.7	8.8	14.2	46.0	49.3	59.2	74.5	93.1	100.8	126.0
62.5°	1.1	1.1	3.3	7.7	32.9	39.4	55.9	64.6	74.5	94.2
65°	0.0	0.0	1.1	2.2	6.6	23.0	28.5	35.1	51.5	67.9
67.5°	0.0	0.0	1.1	2.2	3.3	7.7	12.1	23.0	29.6	47.1
70°	0.0	0.0	1.1	2.2	3.3	4.4	6.6	8.8	17.5	27.4
72.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	17.5
75°	0.0	0.0	1.1	2.2	3.3	5.5	6.6	6.6	6.6	7.7
77.5°	0.0	0.0	1.1	2.2	4.4	6.6	7.7	6.6	5.5	5.5
80°	0.0	0.0	1.1	3.3	5.5	7.7	8.8	6.6	4.4	3.3
82.5°	0.0	0.0	1.1	3.3	5.5	7.7	8.8	7.7	4.4	3.3
85°	0.0	0.0	1.1	3.3	4.4	5.5	8.8	7.7	4.4	2.2
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	4.4	3.3	2.2	1.1
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°
13234.8	0°	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8	13234.8
13268.8	2.5°	13367.3	13416.6	13503.2	13527.3	13601.8	13516.3	13469.2	13473.6	13371.7
13235.9	5°	13367.3	13480.2	13631.4	13703.7	13758.4	13754.1	13742.0	13711.3	13636.8
13170.2	7.5°	13332.3	13516.3	13724.5	13820.9	13886.6	13881.1	13908.5	13859.2	13768.3
13052.9	10°	13219.5	13379.4	13635.7	13714.6	13820.9	13823.1	13789.1	13799.0	13636.8
12624.6	12.5°	12864.5	12989.4	13214.0	13303.8	13433.1	13453.9	13416.6	13402.4	13249.0
11922.4	15°	12177.6	12249.9	12475.6	12565.4	12693.6	12676.1	12713.3	12698.0	12563.2
10973.7	17.5°	11173.1	11196.1	11432.7	11508.3	11628.8	11675.9	11620.0	11691.2	11575.1
9664.5	20°	9732.5	9856.3	10122.5	10238.6	10308.7	10393.1	10319.7	10399.6	10263.8
8076.1	22.5°	8271.1	8344.5	8585.5	8753.1	8883.4	8899.9	8872.5	8928.4	8745.4
6676.0	25°	6674.9	6796.5	6987.1	7206.2	7334.4	7413.3	7342.1	7378.2	7348.6
5177.4	27.5°	5265.0	5373.5	5517.0	5680.2	5873.0	5976.0	5919.0	5980.4	5835.8
3860.6	30°	3863.8	3918.6	4080.8	4253.8	4465.3	4590.2	4595.6	4658.1	4572.6
2704.8	32.5°	2724.5	2772.7	2872.4	2987.4	3189.0	3328.1	3306.2	3315.0	3262.4
1762.7	35°	1771.4	1836.1	1907.3	1962.0	2083.6	2237.0	2225.0	2214.0	2177.9
1159.0	37.5°	1184.2	1209.4	1248.9	1298.2	1377.0	1473.5	1505.2	1465.8	1450.4
782.2	40°	800.8	844.6	870.9	908.2	945.4	1026.5	1048.4	1040.7	1025.4
547.8	42.5°	568.6	602.5	635.4	671.5	691.3	741.7	784.4	772.3	765.8
416.3	45°	431.6	462.3	500.6	528.0	547.8	577.3	617.9	622.2	612.4
334.1	47.5°	346.2	373.6	404.2	438.2	461.2	479.8	514.9	528.0	521.5
281.5	50°	293.6	314.4	344.0	377.9	403.1	419.6	450.3	464.5	460.1
235.5	52.5°	249.8	275.0	302.4	330.8	361.5	377.9	406.4	427.2	424.0
195.0	55°	207.1	239.9	268.4	296.9	331.9	348.4	373.6	401.0	395.5
165.4	57.5°	180.8	208.1	237.7	265.1	302.4	324.3	347.3	375.8	374.7
135.8	60°	151.2	178.6	211.4	234.4	273.9	304.6	325.4	354.9	357.1
103.0	62.5°	120.5	154.5	179.7	211.4	247.6	283.7	303.5	333.0	344.0
78.9	65°	89.8	127.1	155.6	187.3	221.3	261.8	279.4	308.9	319.9
57.0	67.5°	66.8	95.3	131.5	158.8	197.2	232.2	253.1	280.4	288.1
34.0	70°	50.4	73.4	109.6	133.7	173.1	201.6	222.4	243.2	253.1
23.0	72.5°	29.6	54.8	86.5	115.0	149.0	173.1	188.4	204.9	211.4
11.0	75°	20.8	41.6	67.9	95.3	120.5	140.2	154.5	168.7	175.3
5.5	77.5°	11.0	30.7	53.7	76.7	94.2	110.6	124.9	135.8	140.2
4.4	80°	6.6	21.9	43.8	60.3	72.3	86.5	100.8	108.5	107.4
3.3	82.5°	4.4	17.5	31.8	43.8	52.6	63.5	73.4	78.9	78.9
2.2	85°	3.3	12.1	21.9	34.0	35.1	43.8	46.0	51.5	52.6
2.2	87.5°	2.2	7.7	12.1	19.7	18.6	23.0	24.1	27.4	29.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13234.8
13289.6
13660.9
13789.1
13589.7
13214.0
12606.0
11546.6
10252.8
8720.2
7330.0
5873.0
4588.0
3292.0
2146.1
1447.2
1027.6
760.3
611.3
518.2
459.0
421.8
395.5
373.6
357.1
342.9
318.8
288.1
250.9
209.2
173.1
139.1
106.3
77.8
51.5
28.5
0.0

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