

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: P636435

Luminaire Tested: **IFLD-M-SA4C-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14894.8 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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

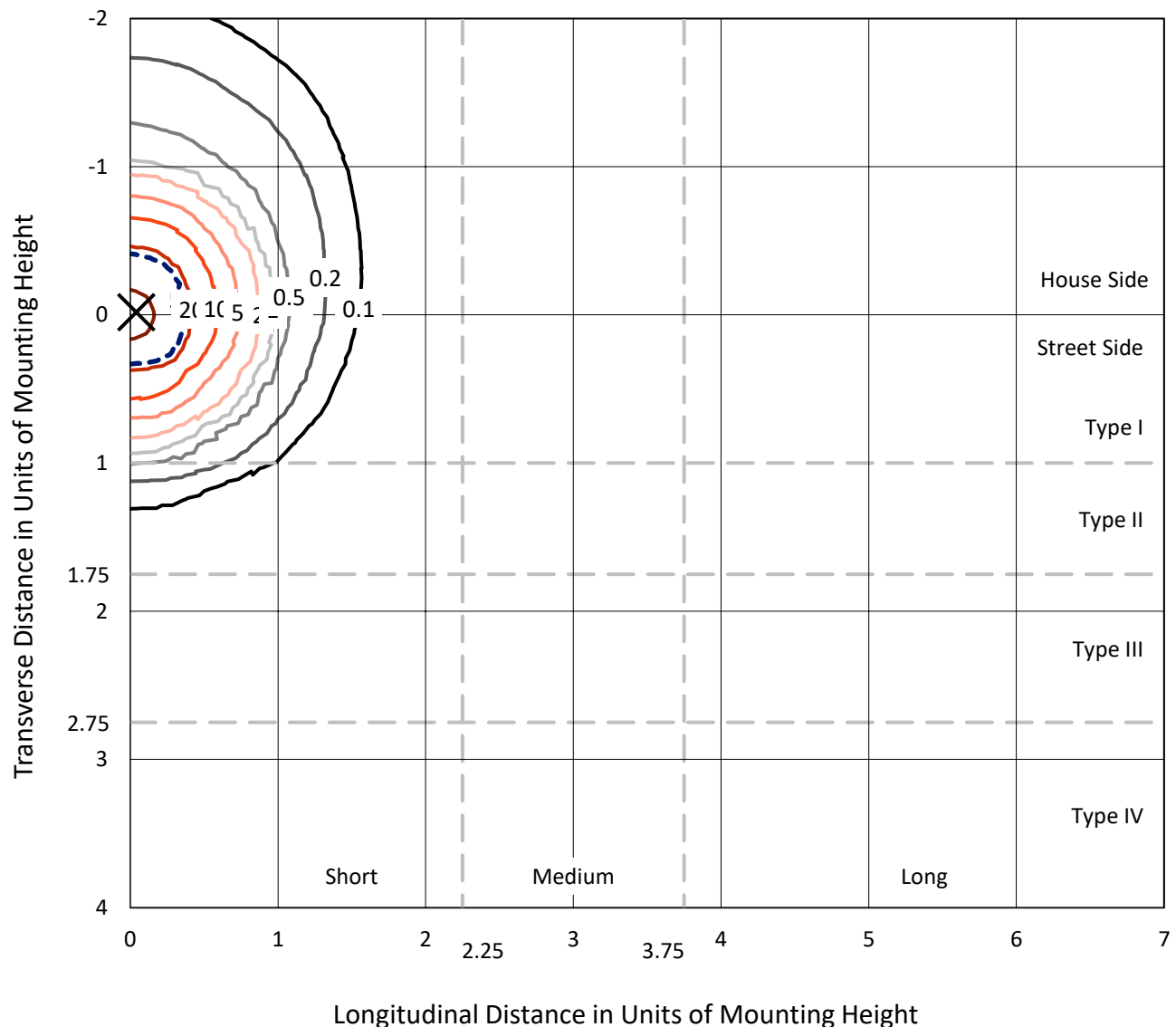


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Iso-Footcandle Lines of Horizontal Illumination

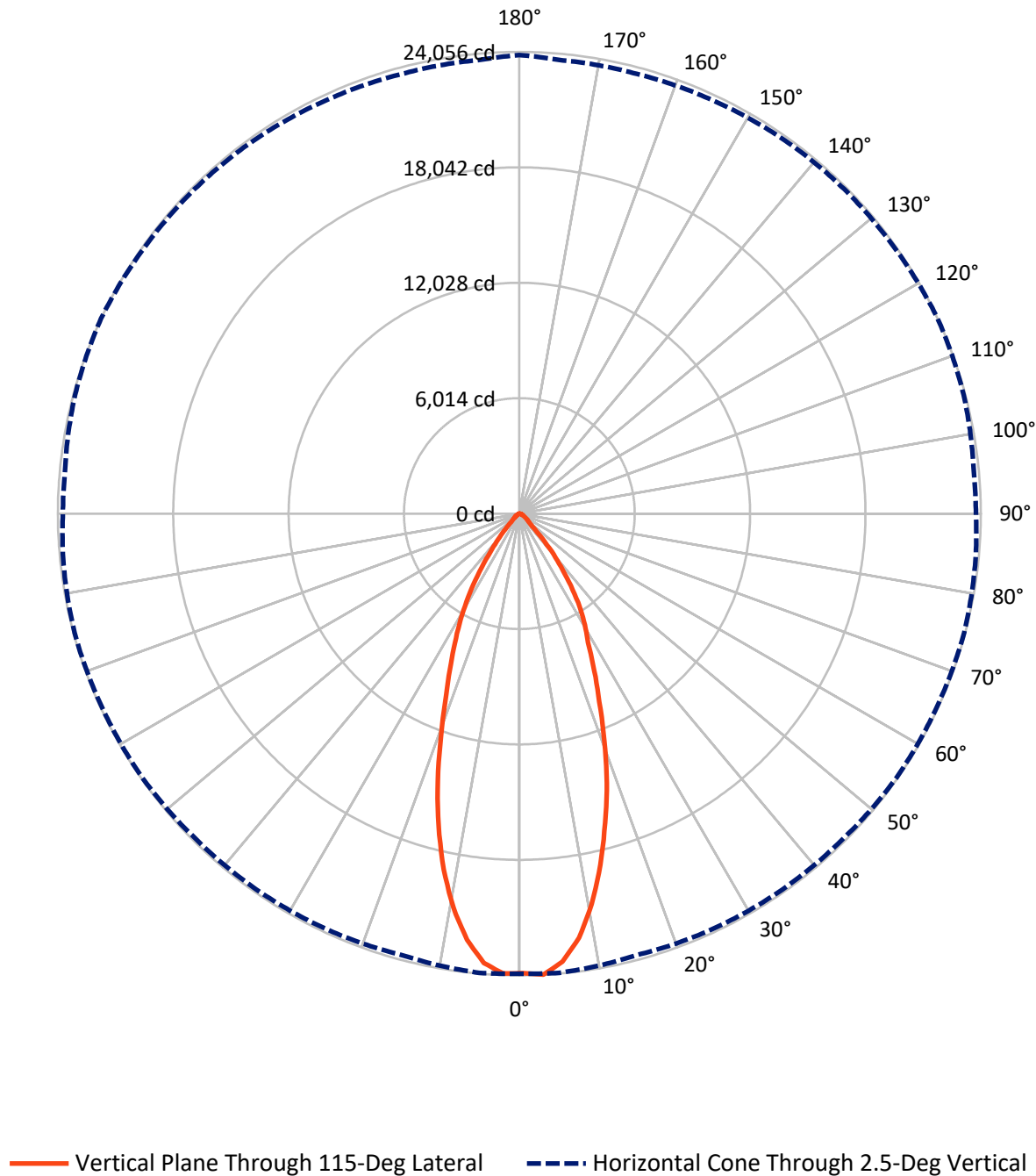
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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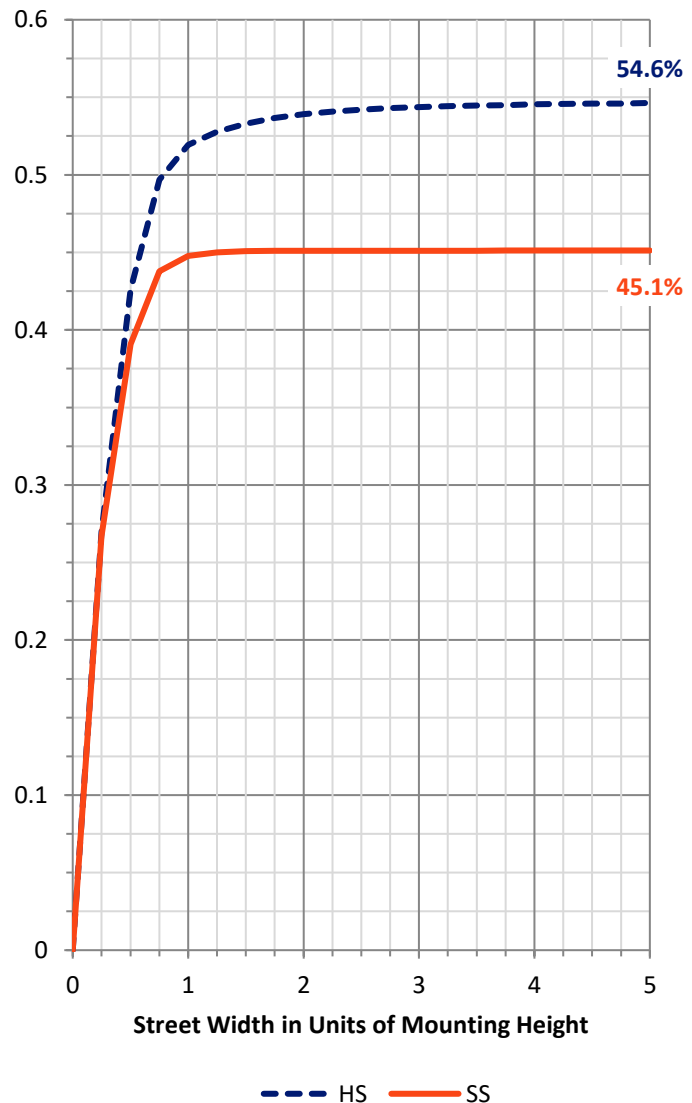
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8220.2	0.0	8220.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6674.6	0.0	6674.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	14894.8	0.0	14894.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2147.5	14.4
10°-20°	4538.8	30.5
20°-30°	4096.5	27.5
30°-40°	2710.9	18.2
40°-50°	812.1	5.5
50°-60°	325.8	2.2
60°-70°	168.7	1.1
70°-80°	73.2	0.5
80°-90°	21.3	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°	14894.8	100.0
0°-180°	14894.8	100.0

Coefficient of Utilization



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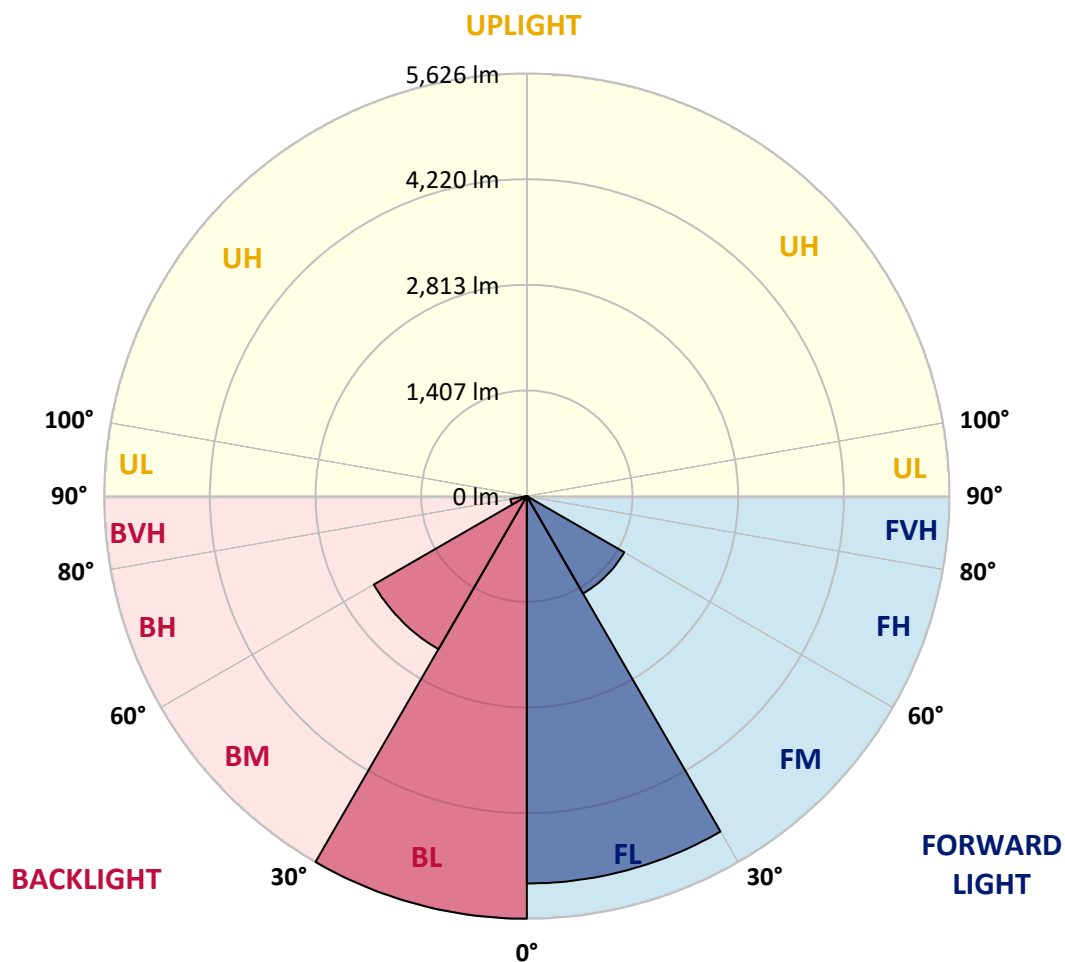
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5156.7	34.6			
FM	(30°-60°)	1496.3	10.0			
FH	(60°-80°)	18.5	0.1			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	5626.1	37.8	B5		
BM	(30°-60°)	2352.4	15.8	B2/2500		
BH	(60°-80°)	223.4	1.5	B1/500		G1/500
BVH	(80°-90°)	18.2	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4
2.5°	23973.9	24016.5	23803.3	23876.4	23906.8	23916.0	23992.1	23979.9	24001.3	23888.6
5°	23657.0	23574.8	23416.4	23419.4	23410.3	23325.0	23498.6	23486.5	23449.9	23315.9
7.5°	22578.7	22697.5	22398.9	22392.9	22386.8	22283.2	22511.7	22371.5	22402.0	22210.1
10°	21000.7	21016.0	20750.9	20726.6	20747.9	20613.9	20878.9	20824.0	20881.9	20680.9
12.5°	19066.4	19151.7	18859.2	18816.6	18901.9	18713.0	18926.2	18953.7	18868.4	18840.9
15°	14954.0	15179.4	15733.8	16580.6	16800.0	16641.6	16812.2	16809.1	16845.7	16638.5
17.5°	11392.9	11414.2	11283.2	11688.4	14034.0	14795.6	14832.1	14542.7	14323.4	14247.2
20°	9945.9	10019.1	9900.3	9933.8	10308.5	12541.3	12626.6	12191.0	11816.3	11785.9
22.5°	8794.5	8840.2	8754.9	8782.3	8800.6	9062.5	10546.1	10162.2	9982.5	9845.4
25°	7819.7	7819.7	7774.0	7783.1	7764.8	7378.0	8139.5	8578.2	8474.6	8425.9
27.5°	6930.2	6942.4	6884.5	6918.0	6695.6	6071.1	5979.8	7274.4	7164.7	7076.4
30°	6086.4	6126.0	6071.1	6089.4	5605.1	5093.3	4831.3	6068.1	6205.2	6180.8
32.5°	4581.5	4761.3	5203.0	5221.2	4563.3	4170.3	4054.5	4870.9	5391.8	5346.1
35°	2839.1	2830.0	2848.2	3725.5	3500.1	3232.1	3274.7	3679.8	4267.8	4246.4
37.5°	2165.9	2162.8	2196.3	2108.0	2293.8	2452.2	2485.7	2485.7	3116.3	3119.3
40°	1641.9	1629.7	1626.7	1486.6	1245.9	1839.9	1785.1	1739.4	2165.9	2211.6
42.5°	1047.9	1084.5	1057.0	904.7	813.3	1005.3	1121.0	1084.5	1337.3	1370.8
45°	584.9	584.9	560.5	475.2	472.2	508.7	639.7	597.1	685.4	731.1
47.5°	283.3	277.2	304.6	374.7	389.9	377.7	456.9	475.2	517.9	560.5
50°	228.5	228.5	216.3	195.0	322.9	310.7	338.1	362.5	386.9	423.4
52.5°	191.9	191.9	176.7	164.5	185.8	237.6	240.7	286.3	283.3	335.1
55°	97.5	100.5	143.2	143.2	124.9	195.0	198.0	231.5	237.6	280.3
57.5°	9.1	12.2	18.3	88.3	97.5	106.6	149.3	170.6	198.0	216.3
60°	3.0	3.0	6.1	12.2	57.9	73.1	94.4	112.7	137.1	179.7
62.5°	0.0	0.0	3.0	6.1	12.2	45.7	51.8	57.9	82.2	112.7
65°	0.0	0.0	3.0	3.0	6.1	15.2	21.3	36.6	51.8	70.1
67.5°	0.0	0.0	3.0	3.0	6.1	9.1	12.2	18.3	24.4	45.7
70°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	12.2	15.2	21.3
72.5°	0.0	0.0	3.0	3.0	6.1	12.2	9.1	9.1	12.2	15.2
75°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	9.1	9.1	9.1
77.5°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	9.1	6.1	6.1
80°	0.0	0.0	3.0	3.0	6.1	9.1	12.2	12.2	6.1	6.1
82.5°	0.0	0.0	3.0	6.1	6.1	15.2	18.3	15.2	6.1	3.0
85°	0.0	0.0	3.0	3.0	9.1	15.2	15.2	9.1	6.1	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.1	9.1	9.1	3.0	3.0
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°
23943.4	0°	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4	23943.4
23797.2	2.5°	23785.0	23970.8	24056.1	23967.8	23925.1	23864.2	23775.8	23714.9	23727.1
23242.8	5°	23191.0	23385.9	23452.9	23376.8	23312.8	23279.3	23264.1	23294.5	23373.7
22127.8	7.5°	22121.7	22246.6	22319.7	22283.2	22194.9	22295.4	22322.8	22304.5	22420.3
20619.9	10°	20626.0	20763.1	20696.1	20711.3	20607.8	20659.5	20644.3	20711.3	20827.1
18819.6	12.5°	18697.8	18828.8	18777.0	18767.8	18658.2	18755.7	18694.7	18767.8	18920.2
16553.2	15°	16672.0	16754.3	16720.8	16669.0	16571.5	16605.0	16793.9	16781.7	16848.7
14201.5	17.5°	14140.6	14536.6	14752.9	14798.6	14719.4	14786.4	14920.4	14886.9	15039.3
11721.9	20°	11700.6	12099.6	12632.7	13065.3	13074.4	13083.6	13168.9	13190.2	13321.2
9848.5	22.5°	9805.8	10089.1	10661.8	11234.5	11630.5	11712.8	11703.6	11734.1	11770.6
8358.9	25°	8337.5	8544.7	9068.6	9464.6	10159.2	10390.7	10457.7	10390.7	10412.0
7045.9	27.5°	7125.1	7441.9	7615.6	8039.0	8718.3	9254.5	9233.1	9193.5	9199.6
6132.1	30°	6129.0	6470.2	6726.1	6854.0	7365.8	8139.5	8218.7	8106.0	8109.1
5324.8	32.5°	5291.3	5397.9	5775.7	5879.2	6208.2	6911.9	7183.0	7097.7	7082.5
4258.6	35°	4383.5	4441.4	4615.0	4819.1	5014.1	5547.2	5995.0	5915.8	5955.4
3131.5	37.5°	3119.3	3356.9	3524.5	3692.0	3832.2	4167.2	4706.4	4633.3	4672.9
2217.7	40°	2199.4	2306.0	2595.4	2668.5	2875.6	3031.0	3487.9	3463.6	3512.3
1376.9	42.5°	1352.5	1428.7	1574.9	1645.0	1785.1	1873.4	2141.5	2172.0	2235.9
761.6	45°	767.7	801.2	901.7	977.8	1081.4	1118.0	1212.4	1255.0	1291.6
591.0	47.5°	584.9	621.4	688.4	755.5	840.8	871.2	938.2	1002.2	1035.7
456.9	50°	478.3	511.8	581.8	636.7	722.0	749.4	804.2	874.3	916.9
347.3	52.5°	362.5	411.2	496.5	554.4	642.8	676.3	728.0	798.1	837.7
286.3	55°	298.5	335.1	411.2	490.4	572.7	618.4	651.9	737.2	779.8
234.6	57.5°	255.9	283.3	332.0	426.5	496.5	563.6	591.0	670.2	712.8
185.8	60°	195.0	237.6	280.3	353.4	432.6	502.6	533.1	603.2	636.7
134.0	62.5°	161.5	188.9	243.7	283.3	371.6	444.7	475.2	539.2	563.6
88.3	65°	112.7	152.3	204.1	228.5	310.7	380.8	423.4	472.2	496.5
51.8	67.5°	67.0	112.7	161.5	195.0	252.8	322.9	368.6	414.3	435.6
30.5	70°	42.6	88.3	127.9	164.5	198.0	265.0	319.9	359.5	350.3
18.3	72.5°	24.4	54.8	94.4	134.0	164.5	222.4	274.2	304.6	216.3
12.2	75°	15.2	39.6	79.2	109.7	134.0	176.7	225.4	231.5	134.0
6.1	77.5°	12.2	30.5	60.9	88.3	91.4	131.0	158.4	179.7	100.5
6.1	80°	6.1	24.4	51.8	73.1	57.9	91.4	121.8	140.1	79.2
3.0	82.5°	6.1	15.2	39.6	51.8	42.6	70.1	88.3	100.5	67.0
3.0	85°	3.0	12.2	21.3	30.5	30.5	45.7	39.6	48.7	42.6
3.0	87.5°	3.0	6.1	12.2	15.2	12.2	18.3	21.3	21.3	18.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23943.4
23891.6
23538.2
22536.0
20872.8
18947.6
16863.9
15014.9
13293.8
11703.6
10378.5
9208.8
8112.1
7119.0
5991.9
4706.4
3530.6
2309.0
1288.6
1051.0
935.2
865.1
792.0
731.1
642.8
566.6
496.5
432.6
322.9
191.9
124.9
100.5
82.2
73.1
42.6
15.2
0.0

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