

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: P637773

Luminaire Tested: **IFLD-L-SA7B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637773
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26580.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 281
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



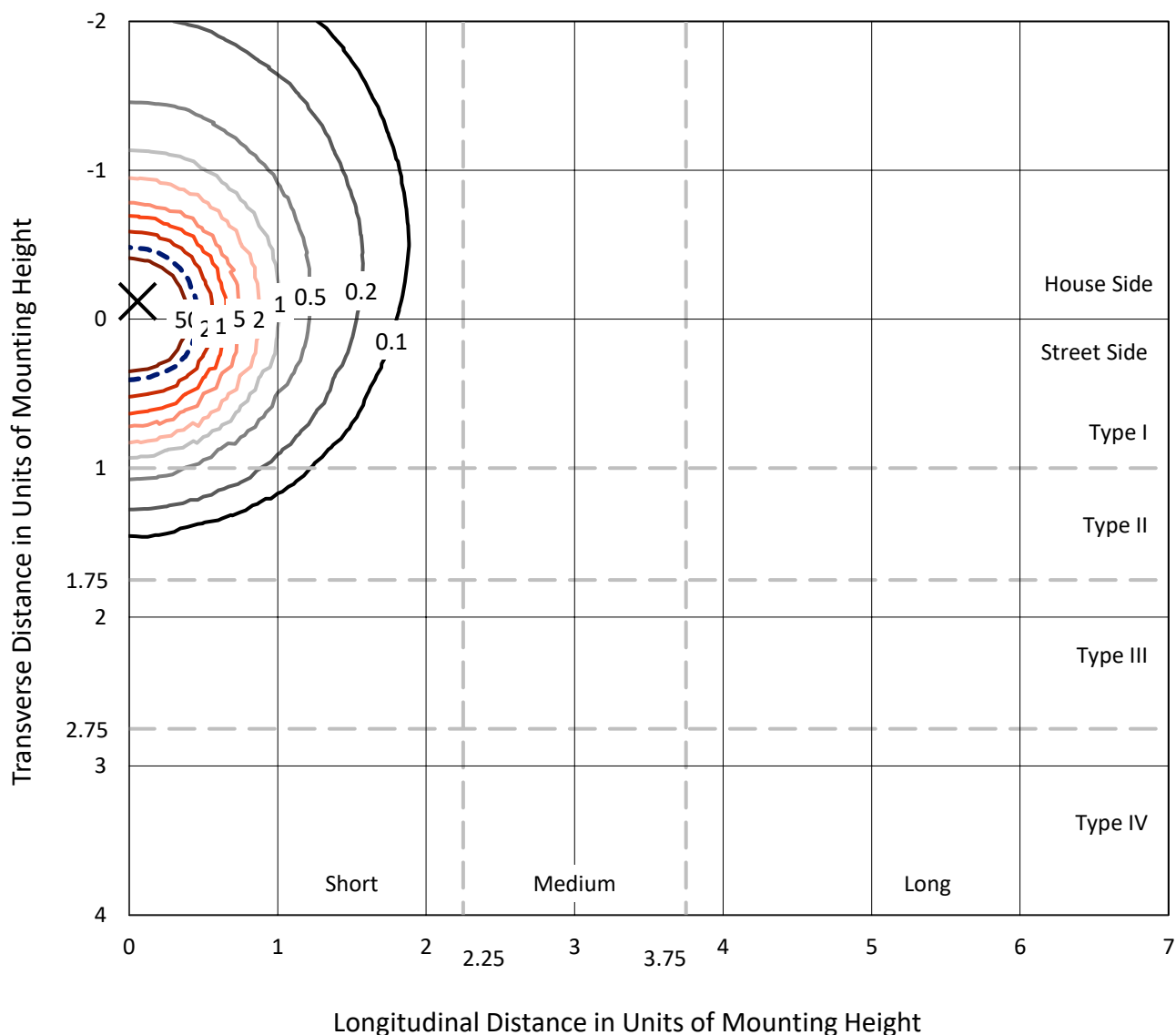
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



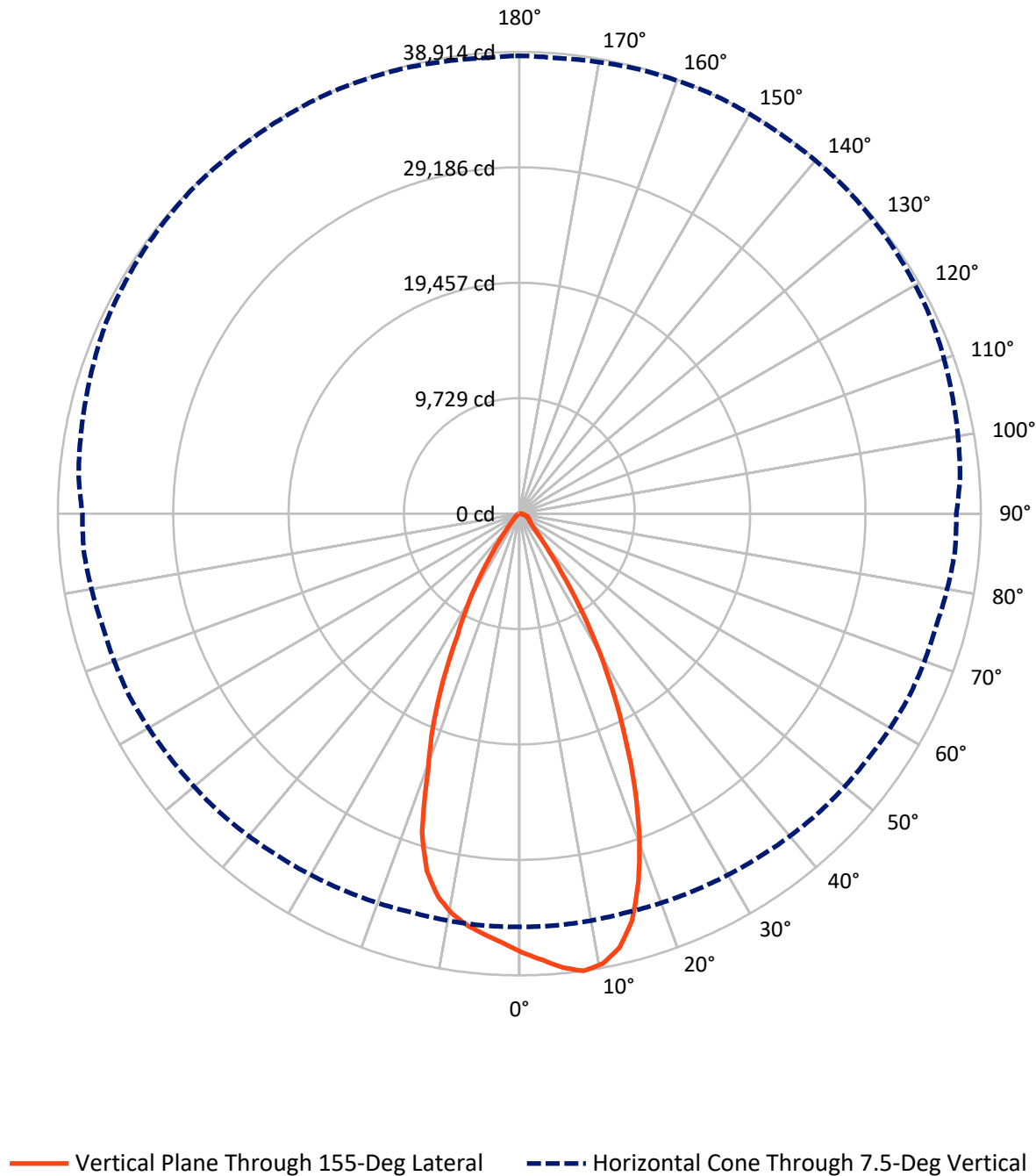
Based on 20 foot mounting height. Maximum calculated value = 94.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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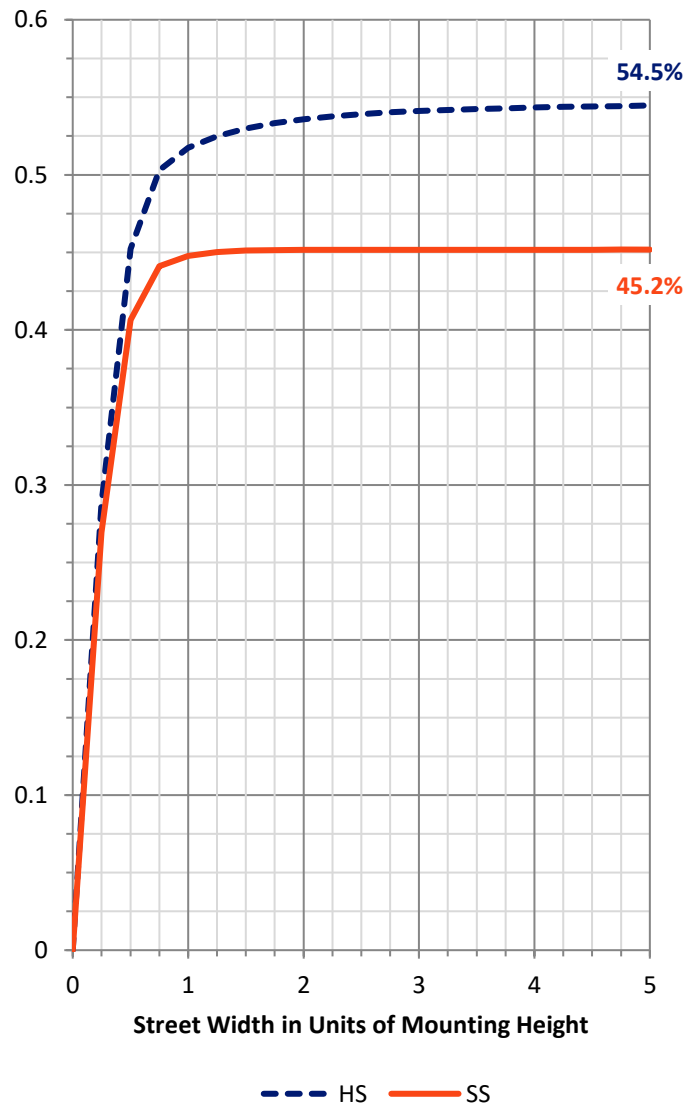
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14673.6	0.0	14673.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11907.3	0.0	11907.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	26580.9	0.0	26580.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3531.0	13.3
10°-20°	9155.8	34.4
20°-30°	8389.3	31.6
30°-40°	3389.3	12.8
40°-50°	994.3	3.7
50°-60°	555.9	2.1
60°-70°	337.6	1.3
70°-80°	171.6	0.6
80°-90°	56.1	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°	26580.9	100.0
0°-180°	26580.9	100.0

Coefficient of Utilization



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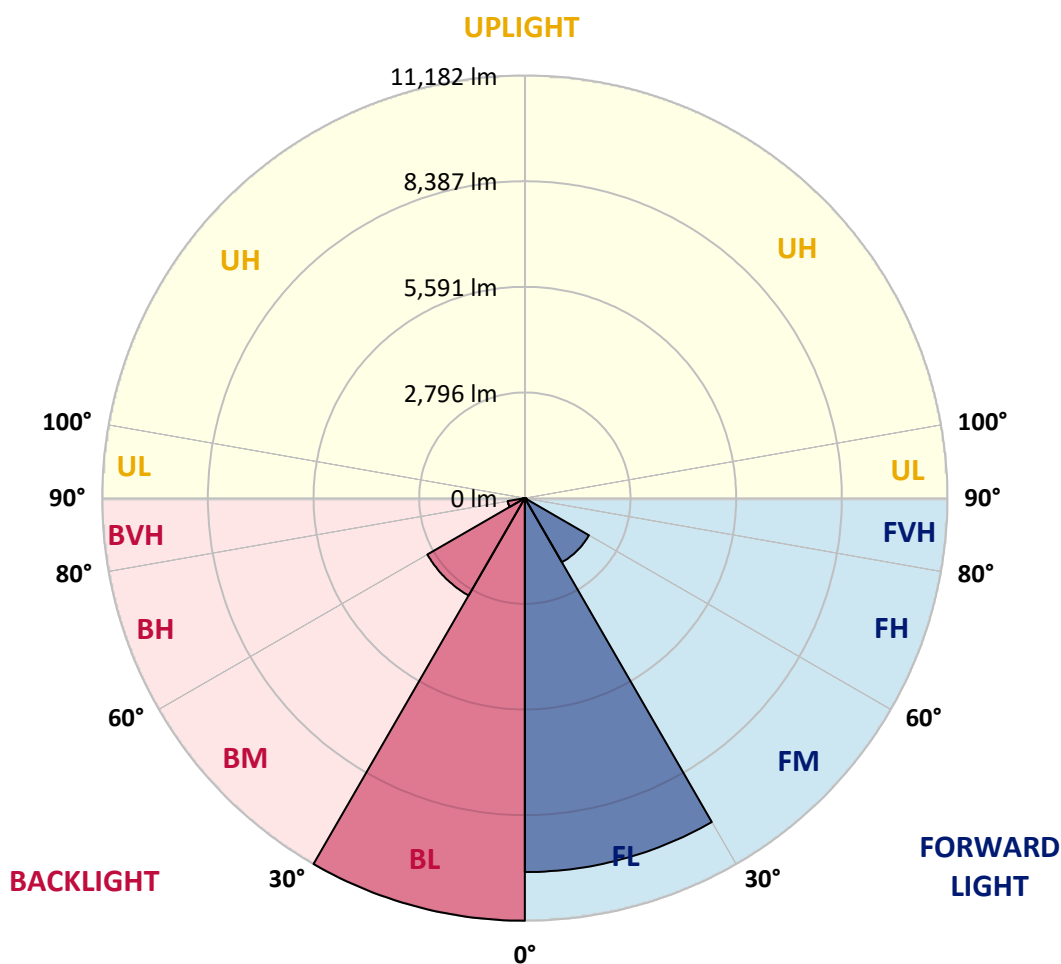
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9894.1	37.2			
FM	(30°-60°)	1960.8	7.4			
FH	(60°-80°)	47.5	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11182.0	42.1	B5		
BM	(30°-60°)	2978.6	11.2	B3/5000		
BH	(60°-80°)	461.7	1.7	B1/500		G1/500
BVH	(80°-90°)	51.2	0.2			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°	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2
2.5°	36226.2	36348.8	36103.6	36266.0	36391.7	36692.1	36716.6	36820.8	36857.6	37130.4
5°	35539.6	35634.6	35435.4	35653.0	35830.8	36097.4	36302.8	36590.9	36750.3	37072.1
7.5°	34825.4	34846.9	34807.0	35036.9	35303.6	35671.4	35925.8	36302.8	36400.9	36860.7
10°	33961.1	33804.8	33881.4	34218.6	34617.0	35181.0	35355.7	35732.7	35907.4	36376.4
12.5°	32581.8	32661.5	32566.5	32995.6	33326.6	33967.2	34151.1	34531.2	34865.3	35279.1
15°	30638.5	30592.6	30785.7	31119.8	31478.4	31987.2	32284.5	32698.3	32952.7	33381.8
17.5°	26270.8	26427.1	27224.0	28060.8	28796.4	29391.1	29746.6	30089.9	30273.8	30739.7
20°	22687.7	22491.6	22598.8	23070.9	25164.3	26074.6	26448.6	26531.3	26608.0	26975.8
22.5°	18681.7	18617.3	18975.9	19506.2	20002.7	22102.3	22611.1	22418.0	22577.4	22923.7
25°	13872.6	14197.5	14516.2	15533.8	16177.5	17207.4	18172.9	18258.7	18316.9	18534.5
27.5°	11291.8	11178.3	11172.2	11457.3	12407.4	13265.7	14087.1	14277.1	14243.4	14451.9
30°	8876.5	8839.7	8711.0	8778.4	8683.4	9446.6	9832.8	10614.4	10571.5	10577.6
32.5°	6403.0	6265.0	6212.9	6314.1	6216.0	6145.5	6482.6	7365.4	7350.1	7411.4
35°	3874.3	3855.9	3898.8	3987.7	3791.5	3785.4	3855.9	4686.5	4787.7	4885.7
37.5°	2139.4	2121.0	2154.8	2482.7	2418.3	2360.1	2378.5	2816.8	3108.0	3181.6
40°	1409.9	1406.9	1431.4	1489.6	1600.0	1578.5	1587.7	1783.9	2059.7	2124.1
42.5°	944.0	947.1	962.4	1029.9	1045.2	1155.5	1137.1	1183.1	1440.6	1495.8
45°	754.0	750.9	760.1	729.5	747.9	861.3	873.5	876.6	1097.3	1131.0
47.5°	594.6	594.6	603.8	564.0	554.8	625.3	689.6	698.8	876.6	922.6
50°	416.9	416.9	462.8	444.4	465.9	487.3	557.8	567.0	717.2	766.3
52.5°	306.5	312.6	318.8	321.8	392.3	389.3	450.6	493.5	542.5	628.3
55°	232.9	239.1	223.8	239.1	291.2	324.9	337.2	398.5	432.2	527.2
57.5°	153.3	168.6	156.3	183.9	196.2	251.3	269.7	328.0	349.4	432.2
60°	21.5	24.5	39.8	128.7	137.9	165.5	208.4	260.5	282.0	352.5
62.5°	3.1	3.1	9.2	21.5	92.0	110.3	156.3	180.8	208.4	263.6
65°	0.0	0.0	3.1	6.1	18.4	64.4	79.7	98.1	144.1	190.0
67.5°	0.0	0.0	3.1	6.1	9.2	21.5	33.7	64.4	82.8	131.8
70°	0.0	0.0	3.1	6.1	9.2	12.3	18.4	24.5	49.0	76.6
72.5°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	18.4	21.5	49.0
75°	0.0	0.0	3.1	6.1	9.2	15.3	18.4	18.4	18.4	21.5
77.5°	0.0	0.0	3.1	6.1	12.3	18.4	21.5	18.4	15.3	15.3
80°	0.0	0.0	3.1	9.2	15.3	21.5	24.5	18.4	12.3	9.2
82.5°	0.0	0.0	3.1	9.2	15.3	21.5	24.5	21.5	12.3	9.2
85°	0.0	0.0	3.1	9.2	12.3	15.3	24.5	21.5	12.3	6.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.1	12.3	9.2	6.1	3.1
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°
37029.2	0°	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2	37029.2
37124.2	2.5°	37400.1	37538.0	37780.2	37847.6	38056.0	37817.0	37685.2	37697.4	37412.4
37032.3	5°	37400.1	37715.8	38138.8	38341.1	38494.3	38482.1	38448.4	38362.5	38154.1
36848.4	7.5°	37302.0	37817.0	38399.3	38669.0	38853.0	38837.6	38914.3	38776.3	38521.9
36520.4	10°	36986.3	37433.8	38151.1	38371.7	38669.0	38675.2	38580.2	38607.7	38154.1
35322.0	12.5°	35993.2	36342.7	36971.0	37222.3	37584.0	37642.2	37538.0	37498.2	37069.1
33357.3	15°	34071.4	34273.7	34905.1	35156.5	35515.1	35466.0	35570.3	35527.3	35150.3
30702.9	17.5°	31260.8	31325.1	31987.2	32198.7	32535.8	32667.6	32511.3	32710.5	32385.6
27040.1	20°	27230.2	27576.5	28321.3	28646.2	28842.4	29078.4	28873.1	29096.8	28716.7
22595.8	22.5°	23141.4	23346.7	24021.0	24490.0	24854.7	24900.7	24824.1	24980.4	24468.5
18678.6	25°	18675.5	19015.8	19549.1	20162.1	20520.7	20741.4	20542.2	20643.3	20560.6
14485.6	27.5°	14730.8	15034.2	15435.7	15892.4	16431.9	16720.0	16560.6	16732.3	16327.7
10801.3	30°	10810.5	10963.8	11417.4	11901.7	12493.3	12842.7	12858.0	13032.7	12793.6
7567.7	32.5°	7622.9	7757.7	8036.6	8358.5	8922.4	9311.7	9250.4	9274.9	9127.8
4931.7	35°	4956.2	5137.1	5336.3	5489.6	5829.8	6258.9	6225.2	6194.5	6093.4
3242.9	37.5°	3313.4	3383.8	3494.2	3632.1	3852.8	4122.5	4211.4	4101.1	4058.2
2188.5	40°	2240.6	2363.2	2436.7	2541.0	2645.2	2872.0	2933.3	2911.8	2868.9
1532.5	42.5°	1590.8	1685.8	1777.7	1878.9	1934.1	2075.1	2194.6	2160.9	2142.5
1164.7	45°	1207.6	1293.5	1400.7	1477.4	1532.5	1615.3	1728.7	1741.0	1713.4
934.8	47.5°	968.6	1045.2	1131.0	1226.0	1290.4	1342.5	1440.6	1477.4	1459.0
787.7	50°	821.4	879.7	962.4	1057.5	1127.9	1173.9	1259.7	1299.6	1287.3
659.0	52.5°	698.8	769.3	846.0	925.7	1011.5	1057.5	1137.1	1195.4	1186.2
545.6	55°	579.3	671.3	750.9	830.6	928.7	974.7	1045.2	1121.8	1106.5
462.8	57.5°	505.7	582.4	665.1	741.7	846.0	907.3	971.6	1051.3	1048.3
380.1	60°	423.0	499.6	591.6	655.9	766.3	852.1	910.3	993.1	999.2
288.1	62.5°	337.2	432.2	502.7	591.6	692.7	793.9	849.0	931.8	962.4
220.7	65°	251.3	355.5	435.2	524.1	619.1	732.6	781.6	864.4	895.0
159.4	67.5°	187.0	266.7	367.8	444.4	551.7	649.8	708.0	784.7	806.1
95.0	70°	141.0	205.4	306.5	373.9	484.3	564.0	622.2	680.4	708.0
64.4	72.5°	82.8	153.3	242.1	321.8	416.9	484.3	527.2	573.2	591.6
30.7	75°	58.2	116.5	190.0	266.7	337.2	392.3	432.2	472.0	490.4
15.3	77.5°	30.7	85.8	150.2	214.6	263.6	309.6	349.4	380.1	392.3
12.3	80°	18.4	61.3	122.6	168.6	202.3	242.1	282.0	303.4	300.4
9.2	82.5°	12.3	49.0	88.9	122.6	147.1	177.8	205.4	220.7	220.7
6.1	85°	9.2	33.7	61.3	95.0	98.1	122.6	128.7	144.1	147.1
6.1	87.5°	6.1	21.5	33.7	55.2	52.1	64.4	67.4	76.6	82.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37029.2
37182.5
38221.5
38580.2
38022.3
36971.0
35269.9
32305.9
28686.1
24398.0
20508.4
16431.9
12836.6
9210.6
6004.5
4049.0
2875.0
2127.2
1710.3
1449.8
1284.3
1180.1
1106.5
1045.2
999.2
959.4
891.9
806.1
701.9
585.4
484.3
389.3
297.3
217.6
144.1
79.7
0.0

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