

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: P636519

Luminaire Tested: **IFLD-S-SA6E-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31638.8 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 464.2
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



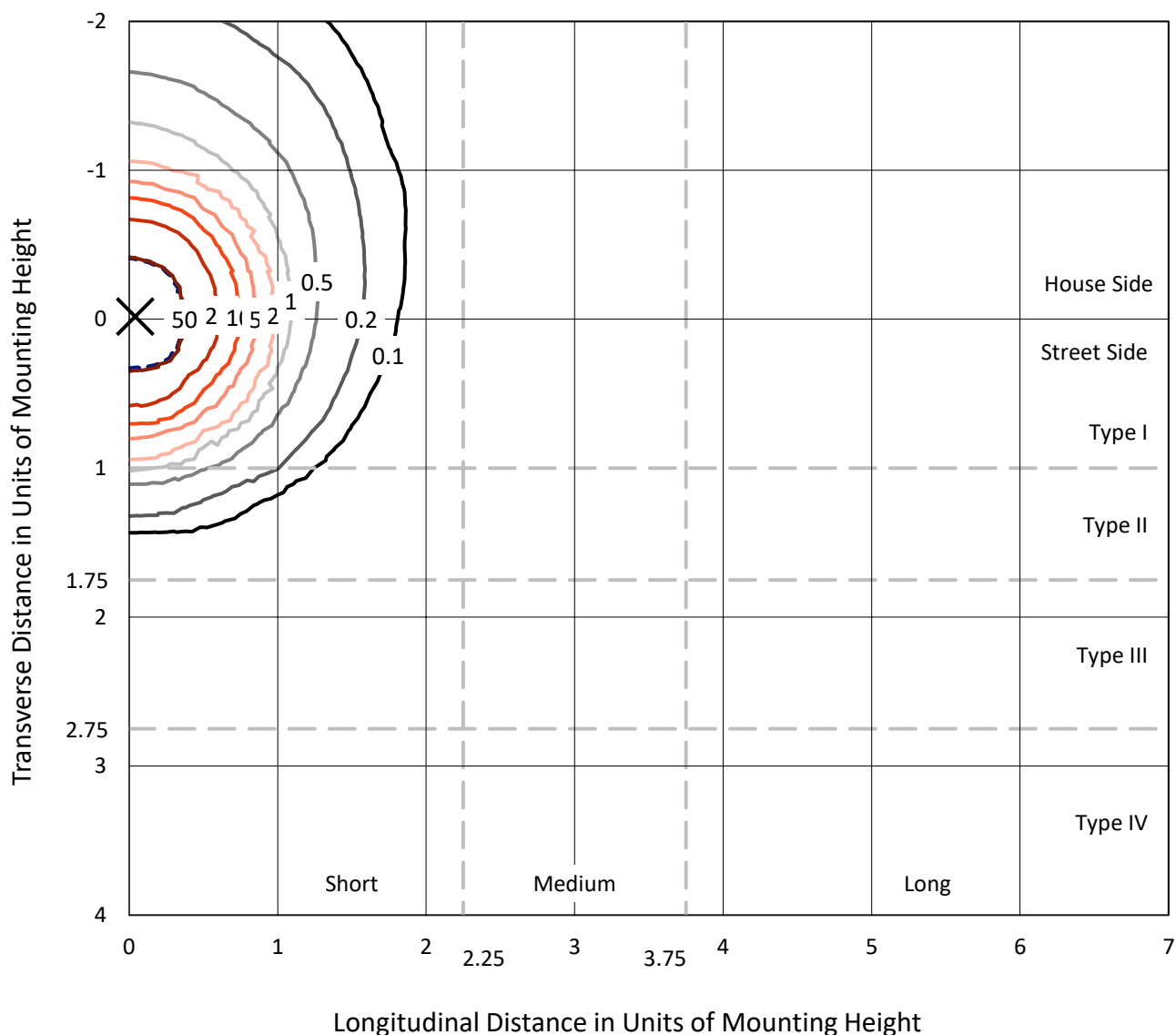
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



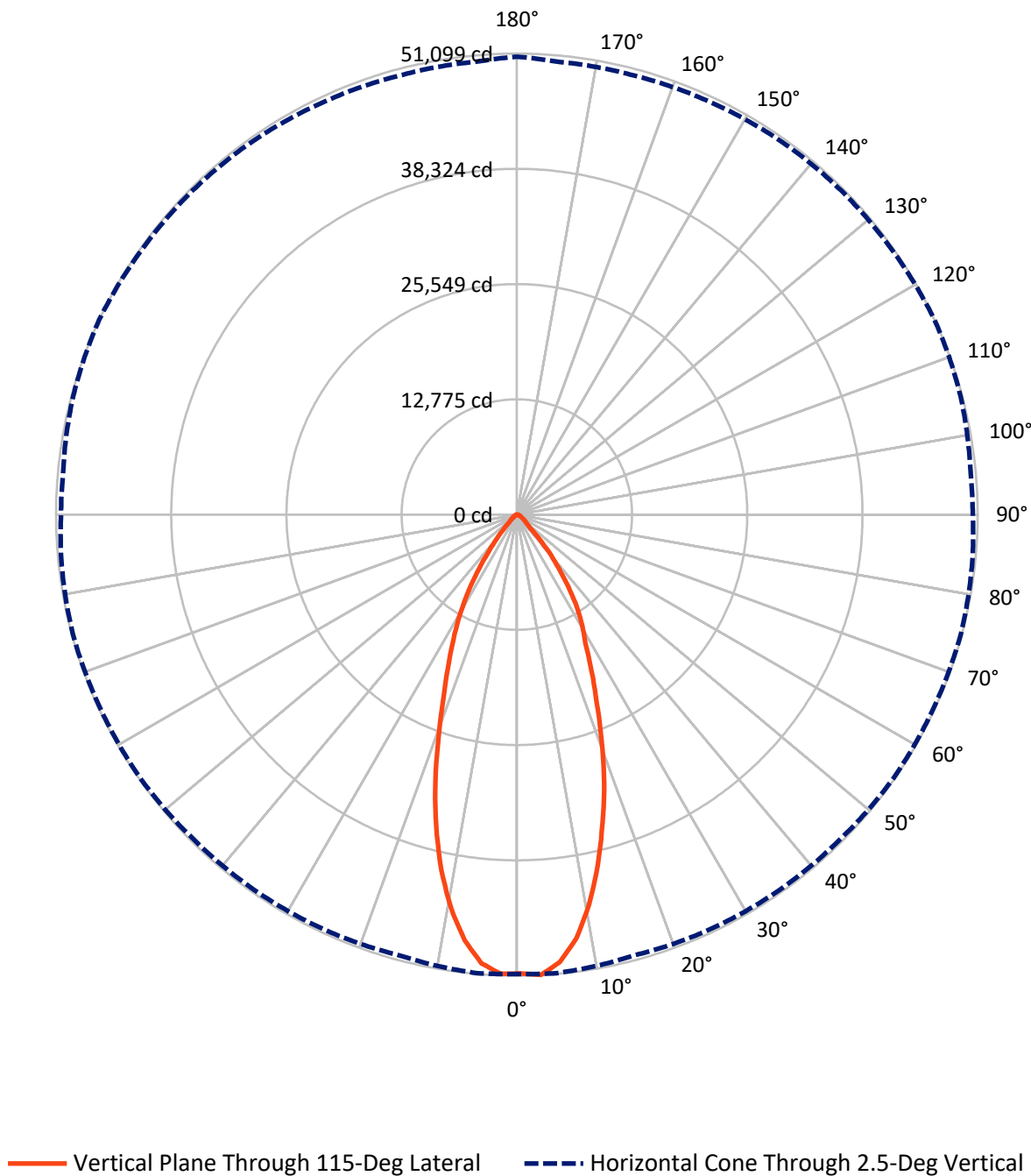
Based on 20 foot mounting height. Maximum calculated value = 127.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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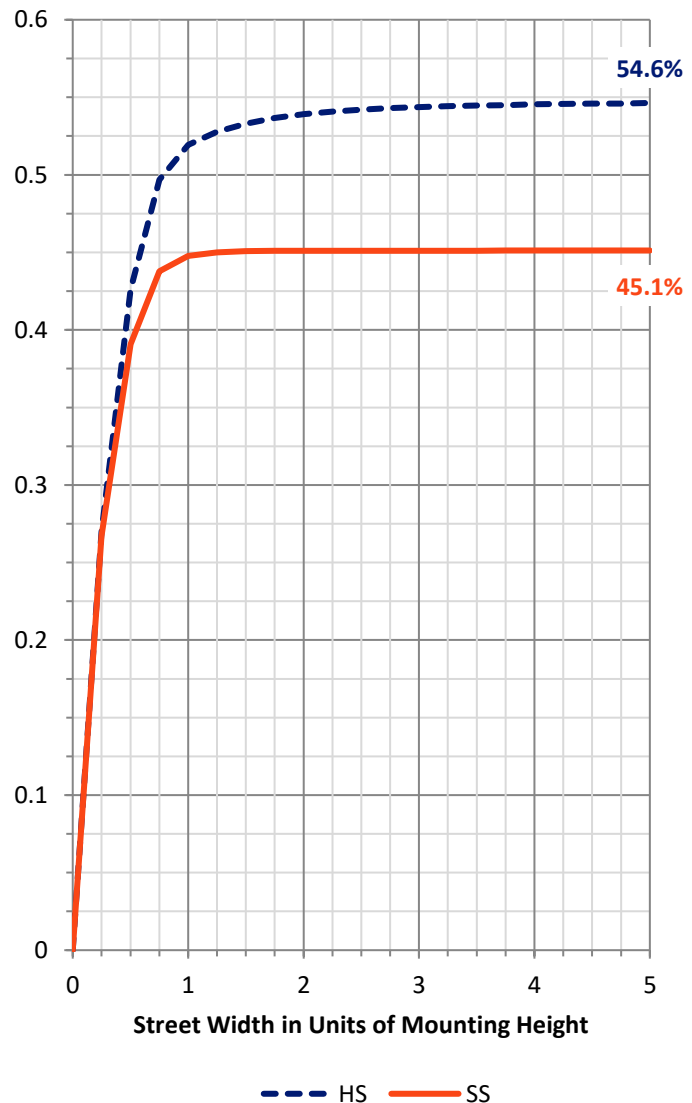
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17460.9	0.0	17460.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14177.9	0.0	14177.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	31638.8	0.0	31638.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4561.7	14.4
10°-20°	9641.0	30.5
20°-30°	8701.6	27.5
30°-40°	5758.4	18.2
40°-50°	1725.0	5.5
50°-60°	692.0	2.2
60°-70°	358.3	1.1
70°-80°	155.6	0.5
80°-90°	45.3	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°	31638.8	100.0
0°-180°	31638.8	100.0

Coefficient of Utilization



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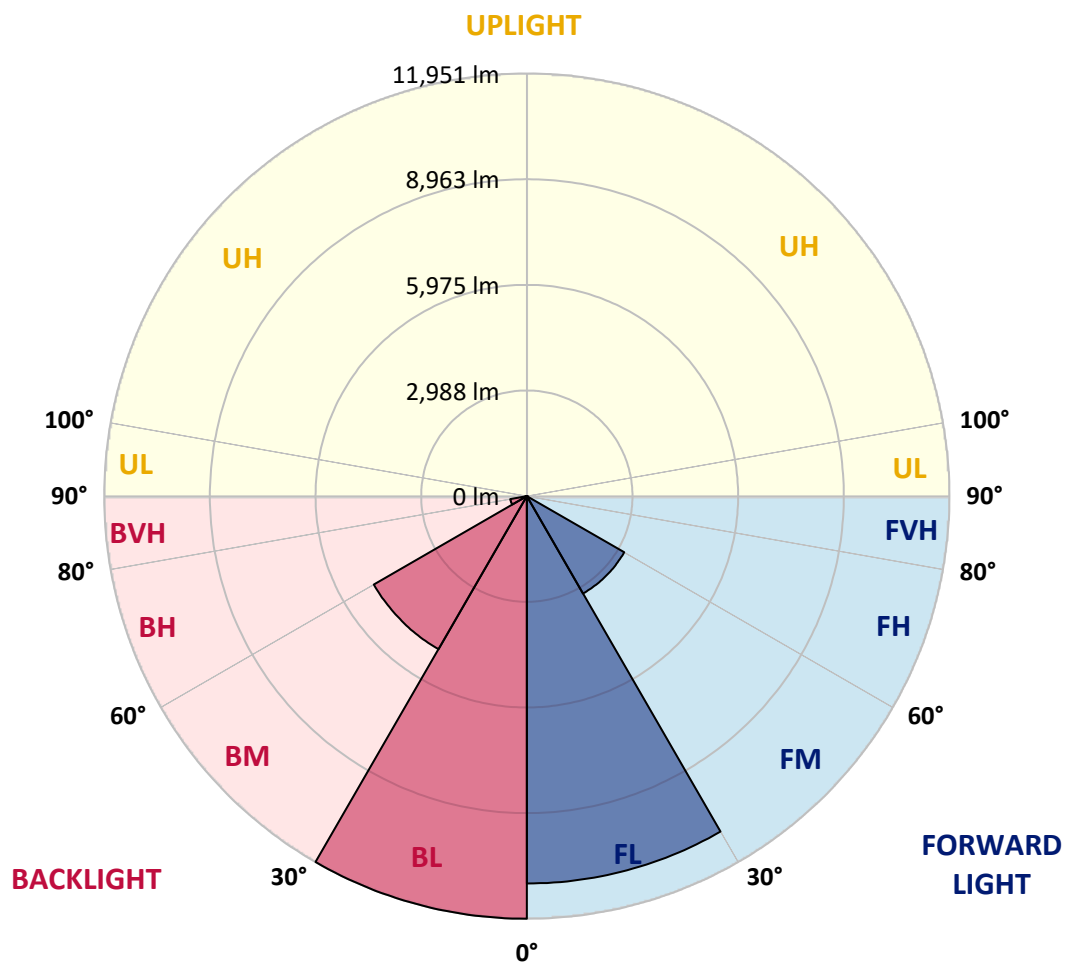
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10953.6	34.6			
FM	(30°-60°)	3178.4	10.0			
FH	(60°-80°)	39.4	0.1			G0/660
FVH	(80°-90°)	6.5	0.0			G0/10
BL	(0°-30°)	11950.8	37.8	B5		
BM	(30°-60°)	4996.9	15.8	B3/5000		
BH	(60°-80°)	474.5	1.5	B1/500		G1/500
BVH	(80°-90°)	38.7	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°	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4
2.5°	50924.1	51014.7	50561.7	50717.0	50781.7	50801.1	50962.9	50937.0	50982.3	50742.9
5°	50251.1	50076.4	49739.9	49746.4	49727.0	49545.8	49914.6	49888.8	49811.1	49526.4
7.5°	47960.5	48212.9	47578.7	47565.8	47552.9	47332.8	47818.1	47520.5	47585.2	47177.6
10°	44608.7	44641.1	44078.1	44026.3	44071.6	43786.9	44349.9	44233.4	44356.3	43929.3
12.5°	40499.8	40681.0	40059.8	39969.2	40150.4	39749.2	40202.2	40260.4	40079.2	40021.0
15°	31764.5	32243.3	33420.9	35219.8	35685.7	35349.2	35711.6	35705.1	35782.7	35342.7
17.5°	24200.3	24245.5	23967.3	24827.9	29810.3	31428.0	31505.6	30890.9	30425.0	30263.3
20°	21126.7	21282.0	21029.6	21100.8	21896.7	26639.7	26820.9	25895.6	25099.7	25035.0
22.5°	18680.8	18777.8	18596.7	18654.9	18693.7	19250.2	22401.4	21586.1	21204.3	20913.2
25°	16610.2	16610.2	16513.1	16532.5	16493.7	15671.9	17289.6	18221.4	18001.4	17897.8
27.5°	14720.7	14746.6	14623.7	14694.9	14222.5	12896.0	12701.9	15451.9	15219.0	15031.3
30°	12928.4	13012.5	12896.0	12934.8	11906.0	10818.9	10262.5	12889.5	13180.7	13129.0
32.5°	9731.9	10113.6	11051.9	11090.7	9693.0	8858.3	8612.4	10346.6	11453.1	11356.0
35°	6030.7	6011.2	6050.1	7913.6	7434.8	6865.4	6956.0	7816.6	9065.4	9020.1
37.5°	4600.6	4594.2	4665.3	4477.7	4872.4	5208.9	5280.1	5280.1	6619.5	6626.0
40°	3487.7	3461.8	3455.3	3157.7	2646.5	3908.3	3791.8	3694.7	4600.6	4697.7
42.5°	2225.9	2303.6	2245.3	1921.8	1727.7	2135.3	2381.2	2303.6	2840.6	2911.8
45°	1242.4	1242.4	1190.6	1009.4	1003.0	1080.6	1358.8	1268.2	1455.9	1553.0
47.5°	601.8	588.8	647.1	795.9	828.2	802.4	970.6	1009.4	1100.0	1190.6
50°	485.3	485.3	459.4	414.1	685.9	660.0	718.2	770.0	821.8	899.4
52.5°	407.7	407.7	375.3	349.4	394.7	504.7	511.2	608.2	601.8	711.8
55°	207.1	213.5	304.1	304.1	265.3	414.1	420.6	491.8	504.7	595.3
57.5°	19.4	25.9	38.8	187.6	207.1	226.5	317.1	362.4	420.6	459.4
60°	6.5	6.5	12.9	25.9	122.9	155.3	200.6	239.4	291.2	381.8
62.5°	0.0	0.0	6.5	12.9	25.9	97.1	110.0	122.9	174.7	239.4
65°	0.0	0.0	6.5	6.5	12.9	32.4	45.3	77.6	110.0	148.8
67.5°	0.0	0.0	6.5	6.5	12.9	19.4	25.9	38.8	51.8	97.1
70°	0.0	0.0	6.5	6.5	12.9	19.4	19.4	25.9	32.4	45.3
72.5°	0.0	0.0	6.5	6.5	12.9	25.9	19.4	19.4	25.9	32.4
75°	0.0	0.0	6.5	6.5	12.9	19.4	19.4	19.4	19.4	19.4
77.5°	0.0	0.0	6.5	6.5	12.9	19.4	19.4	19.4	12.9	12.9
80°	0.0	0.0	6.5	6.5	12.9	19.4	25.9	25.9	12.9	12.9
82.5°	0.0	0.0	6.5	12.9	12.9	32.4	38.8	32.4	12.9	6.5
85°	0.0	0.0	6.5	6.5	19.4	32.4	32.4	19.4	12.9	6.5
87.5°	0.0	0.0	0.0	6.5	6.5	12.9	19.4	19.4	6.5	6.5
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°
50859.4	0°	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4	50859.4
50548.8	2.5°	50522.9	50917.6	51098.8	50911.1	50820.5	50691.1	50503.5	50374.1	50399.9
49371.1	5°	49261.1	49675.2	49817.6	49655.8	49519.9	49448.8	49416.4	49481.1	49649.3
47002.8	7.5°	46989.9	47255.2	47410.5	47332.8	47145.2	47358.7	47417.0	47378.1	47624.0
43799.9	10°	43812.8	44104.0	43961.6	43994.0	43774.0	43884.0	43851.6	43994.0	44239.9
39975.7	12.5°	39716.9	39995.1	39885.1	39865.7	39632.8	39839.8	39710.4	39865.7	40189.2
35161.5	15°	35413.9	35588.6	35517.4	35407.4	35200.4	35271.5	35672.7	35646.8	35789.2
30166.2	17.5°	30036.8	30878.0	31337.4	31434.4	31266.2	31408.6	31693.3	31622.1	31945.6
24899.1	20°	24853.8	25701.4	26833.8	27752.6	27772.1	27791.5	27972.6	28017.9	28296.2
20919.6	22.5°	20829.0	21430.8	22647.3	23863.8	24705.0	24879.7	24860.3	24925.0	25002.6
17755.5	25°	17710.2	18150.2	19263.1	20104.3	21579.6	22071.4	22213.8	22071.4	22116.7
14966.6	27.5°	15134.9	15807.8	16176.6	17076.1	18519.0	19657.9	19612.6	19528.4	19541.4
13025.4	30°	13019.0	13743.7	14287.2	14559.0	15646.0	17289.6	17457.8	17218.4	17224.9
11310.7	32.5°	11239.5	11466.0	12268.4	12488.4	13187.2	14681.9	15257.8	15076.6	15044.3
9046.0	35°	9311.3	9434.2	9803.0	10236.6	10650.7	11783.1	12734.3	12566.0	12650.1
6651.8	37.5°	6626.0	7130.7	7486.5	7842.4	8140.1	8851.9	9997.2	9841.9	9926.0
4710.6	40°	4671.8	4898.3	5513.0	5668.3	6108.3	6438.3	7408.9	7357.1	7460.7
2924.7	42.5°	2873.0	3034.7	3345.3	3494.2	3791.8	3979.5	4548.9	4613.6	4749.5
1617.7	45°	1630.6	1701.8	1915.3	2077.1	2297.1	2374.7	2575.3	2665.9	2743.6
1255.3	47.5°	1242.4	1320.0	1462.4	1604.7	1785.9	1850.6	1993.0	2128.8	2200.0
970.6	50°	1015.9	1087.1	1235.9	1352.4	1533.5	1591.8	1708.3	1857.1	1947.7
737.7	52.5°	770.0	873.5	1054.7	1177.7	1365.3	1436.5	1546.5	1695.3	1779.4
608.2	55°	634.1	711.8	873.5	1041.8	1216.5	1313.5	1384.7	1565.9	1656.5
498.2	57.5°	543.5	601.8	705.3	905.9	1054.7	1197.1	1255.3	1423.5	1514.1
394.7	60°	414.1	504.7	595.3	750.6	918.8	1067.7	1132.4	1281.2	1352.4
284.7	62.5°	342.9	401.2	517.7	601.8	789.4	944.7	1009.4	1145.3	1197.1
187.6	65°	239.4	323.5	433.5	485.3	660.0	808.8	899.4	1003.0	1054.7
110.0	67.5°	142.4	239.4	342.9	414.1	537.1	685.9	782.9	880.0	925.3
64.7	70°	90.6	187.6	271.8	349.4	420.6	562.9	679.4	763.5	744.1
38.8	72.5°	51.8	116.5	200.6	284.7	349.4	472.4	582.4	647.1	459.4
25.9	75°	32.4	84.1	168.2	232.9	284.7	375.3	478.8	491.8	284.7
12.9	77.5°	25.9	64.7	129.4	187.6	194.1	278.2	336.5	381.8	213.5
12.9	80°	12.9	51.8	110.0	155.3	122.9	194.1	258.8	297.7	168.2
6.5	82.5°	12.9	32.4	84.1	110.0	90.6	148.8	187.6	213.5	142.4
6.5	85°	6.5	25.9	45.3	64.7	64.7	97.1	84.1	103.5	90.6
6.5	87.5°	6.5	12.9	25.9	32.4	25.9	38.8	45.3	45.3	38.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
50859.4
50749.4
49998.8
47869.9
44336.9
40247.5
35821.6
31893.9
28237.9
24860.3
22045.5
19560.8
17231.4
15121.9
12727.8
9997.2
7499.5
4904.8
2737.1
2232.4
1986.5
1837.7
1682.4
1553.0
1365.3
1203.5
1054.7
918.8
685.9
407.7
265.3
213.5
174.7
155.3
90.6
32.4
0.0

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