

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: P636671

Luminaire Tested: **IFLD-L-SA7B-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636671
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20489.1 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

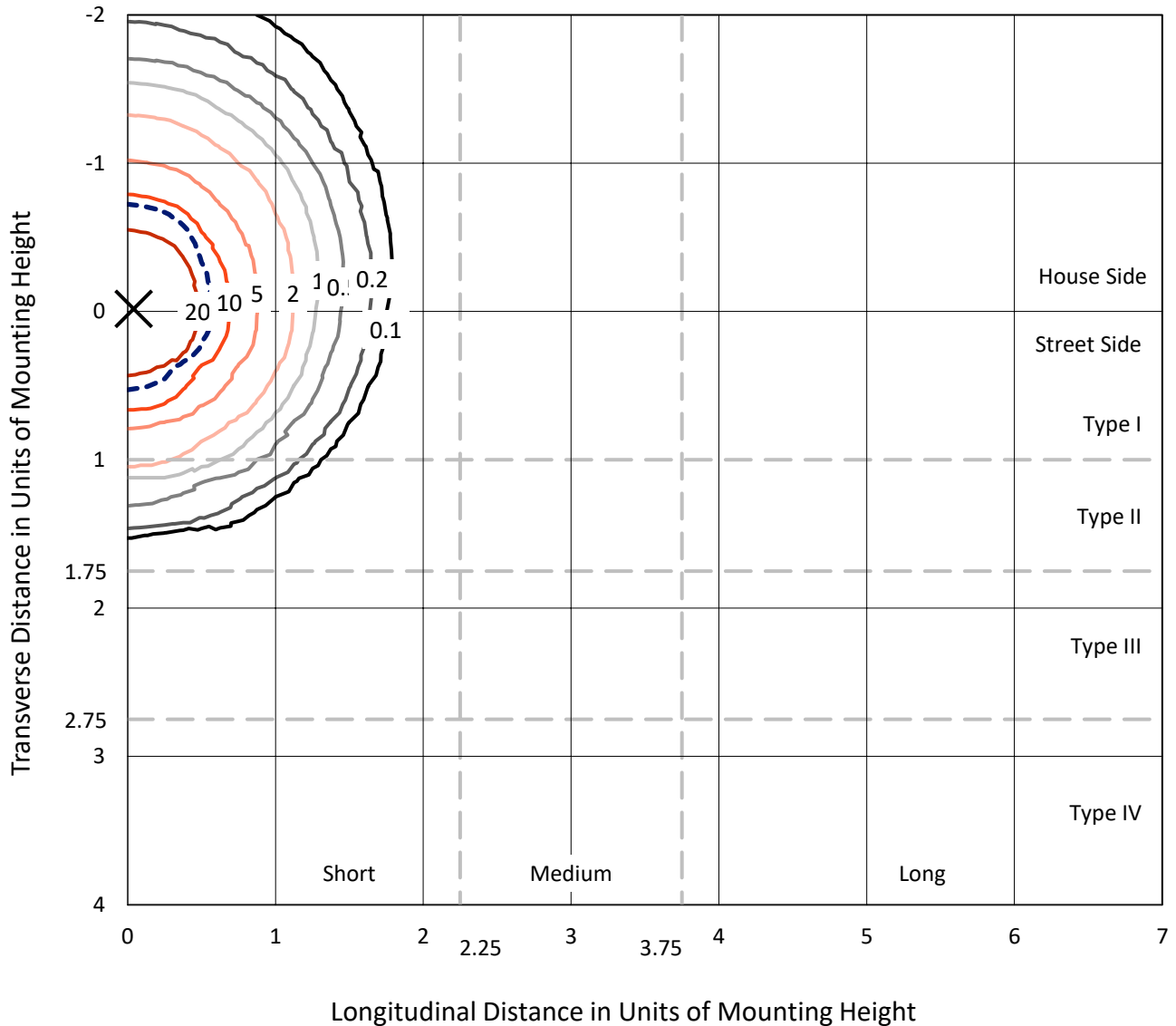
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

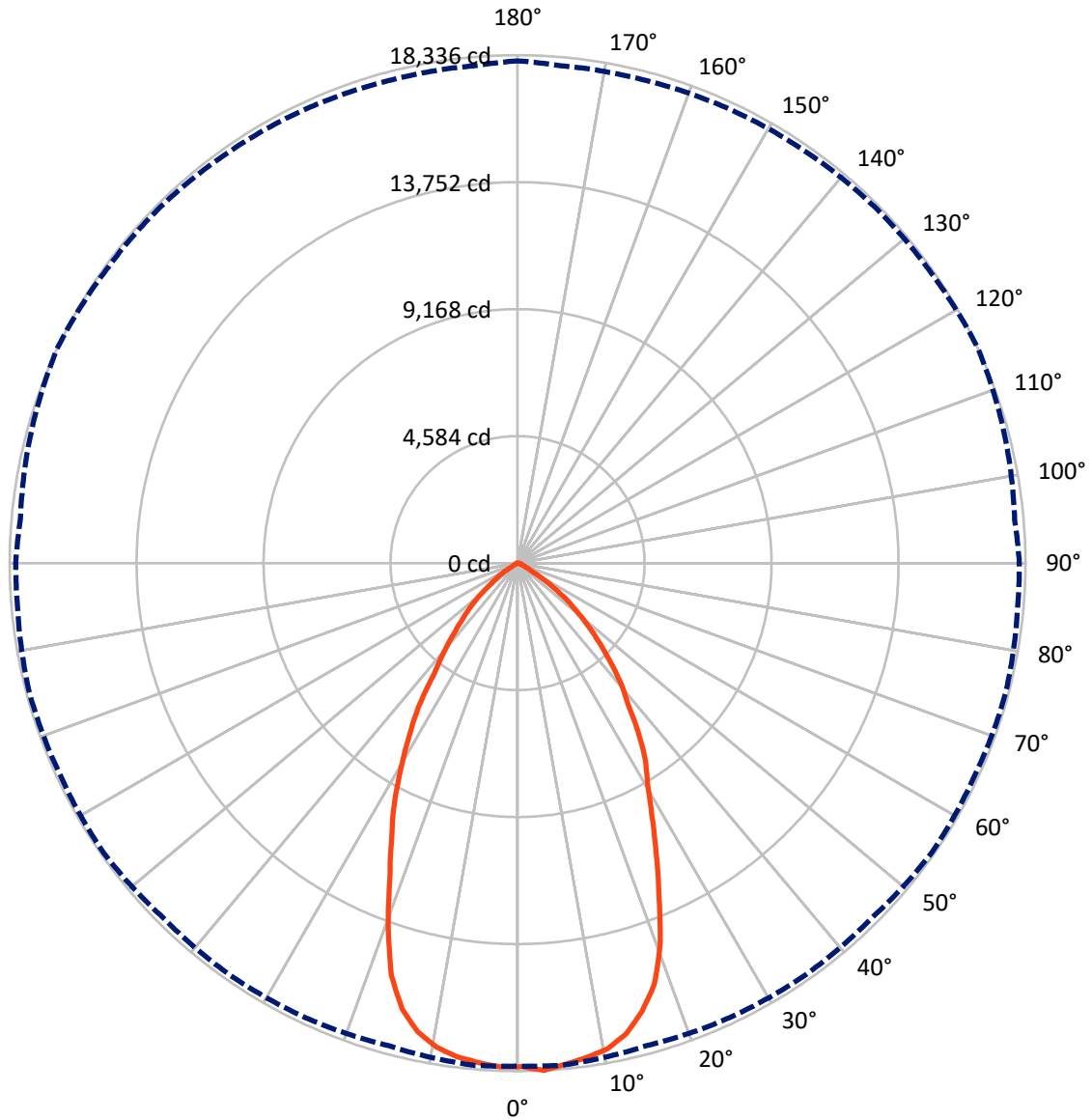
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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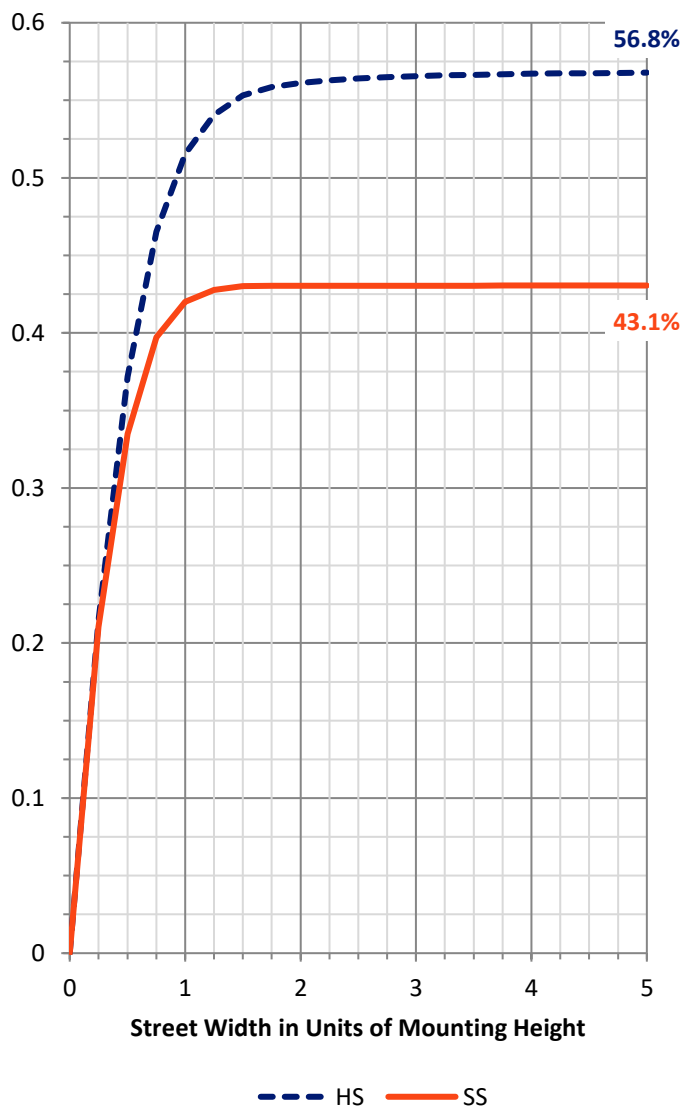
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11725.7	0.0	11725.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	8763.5	0.0	8763.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	20489.1	0.0	20489.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1712.2	8.4
10°-20°	4540.0	22.2
20°-30°	5192.8	25.3
30°-40°	4450.1	21.7
40°-50°	2942.6	14.4
50°-60°	1284.0	6.3
60°-70°	252.3	1.2
70°-80°	91.0	0.4
80°-90°	24.2	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°	20489.1	100.0
0°-180°	20489.1	100.0



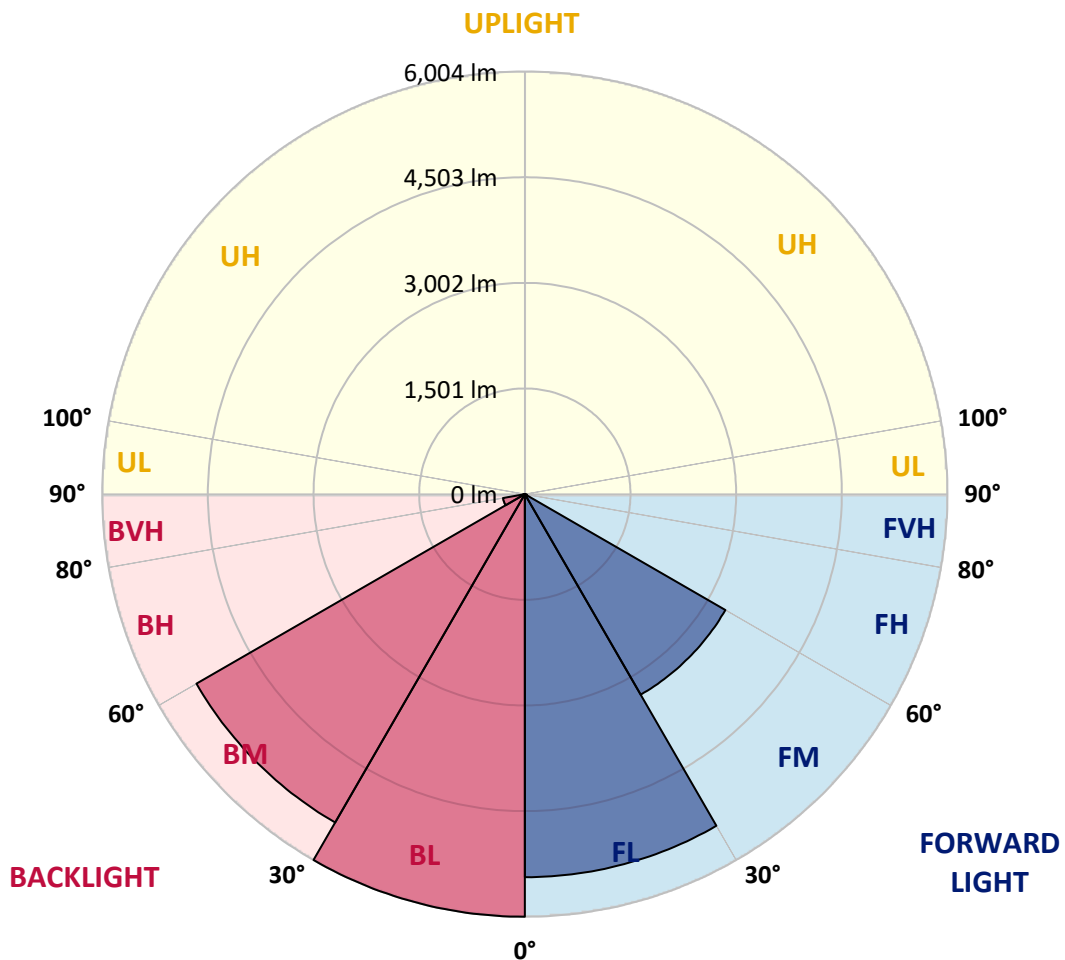
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5441.5	26.6			
FM (30°-60°)	3290.1	16.1			
FH (60°-80°)	27.9	0.1			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	6003.5	29.3	B5		
BM (30°-60°)	5386.5	26.3	B4/8500		
BH (60°-80°)	315.4	1.5	B1/500		G1/500
BVH (80°-90°)	20.2	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°	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0
2.5°	18152.9	18196.4	18030.9	18105.0	18135.4	18096.2	18240.0	18196.4	18231.3	18122.4
5°	18152.9	18196.4	18004.8	18039.6	18048.3	17974.3	18131.1	18078.8	18083.2	17969.9
7.5°	18039.6	18091.9	17917.7	17943.8	17948.2	17887.2	18022.2	17948.2	17922.0	17804.4
10°	17734.8	17765.2	17608.5	17673.8	17734.8	17678.1	17795.7	17713.0	17713.0	17608.5
12.5°	17251.3	17307.9	17133.7	17212.1	17264.4	17199.1	17334.1	17303.6	17307.9	17203.4
15°	16371.6	16175.6	16384.6	16541.4	16545.8	16532.7	16659.0	16628.5	16650.3	16493.5
17.5°	12094.7	12046.7	12290.6	14141.6	15517.9	15705.2	15727.0	15561.5	15487.4	15335.0
20°	11206.2	11241.0	11188.8	11197.5	12281.9	14533.6	14398.6	13989.2	13801.9	13649.5
22.5°	10557.2	10500.6	10465.8	10444.0	10474.5	11942.2	12913.4	12295.0	12194.8	12120.8
25°	9851.7	9825.5	9782.0	9773.3	9755.9	9507.6	10905.7	10962.3	10801.1	10709.7
27.5°	9194.0	9176.6	9128.7	9124.3	8924.0	8323.0	8475.4	9821.2	9777.6	9742.8
30°	8492.8	8458.0	8431.9	8431.9	7826.5	7208.0	6959.8	8562.5	8562.5	8532.0
32.5°	7730.6	7700.2	7708.9	7604.3	6881.4	6315.2	5923.2	7390.9	7848.2	7822.1
35°	4725.5	4716.8	5600.9	6763.8	5914.5	5400.6	5374.4	6323.9	6990.2	7059.9
37.5°	4207.2	4181.1	4194.1	4268.2	5065.2	4860.5	4851.8	5012.9	5949.3	5984.2
40°	3776.0	3758.6	3745.6	3479.9	3227.3	4337.9	4307.4	4202.9	5082.6	5143.6
42.5°	3366.6	3349.2	3349.2	2974.7	2565.3	3567.0	3580.1	3458.1	4285.6	4307.4
45°	2944.2	2931.1	2857.1	2373.6	2256.0	2369.3	2966.0	2826.6	3401.5	3628.0
47.5°	1389.3	1380.6	1999.1	1972.9	1964.2	1894.6	2264.8	2343.1	2700.3	2926.8
50°	1115.0	1106.2	1054.0	927.7	1615.8	1437.2	1633.2	1803.1	1916.3	2125.4
52.5°	923.3	914.6	805.7	714.3	897.2	1049.6	975.6	1206.4	1202.1	1428.5
55°	605.4	561.8	618.5	583.6	470.4	762.2	744.8	914.6	892.8	1088.8
57.5°	13.1	13.1	30.5	331.0	296.2	322.3	426.8	522.6	588.0	644.6
60°	4.4	4.4	8.7	17.4	121.9	135.0	165.5	191.6	270.0	335.4
62.5°	0.0	0.0	4.4	8.7	17.4	69.7	78.4	91.5	126.3	174.2
65°	0.0	0.0	0.0	4.4	8.7	17.4	26.1	56.6	78.4	100.2
67.5°	0.0	0.0	0.0	4.4	4.4	8.7	17.4	26.1	34.8	69.7
70°	0.0	0.0	0.0	4.4	4.4	8.7	13.1	17.4	26.1	34.8
72.5°	0.0	0.0	0.0	4.4	4.4	13.1	8.7	13.1	17.4	21.8
75°	0.0	0.0	0.0	4.4	4.4	4.4	8.7	13.1	13.1	17.4
77.5°	0.0	0.0	0.0	4.4	8.7	8.7	8.7	8.7	8.7	13.1
80°	0.0	0.0	0.0	4.4	4.4	8.7	13.1	17.4	8.7	8.7
82.5°	0.0	0.0	0.0	8.7	4.4	17.4	26.1	21.8	8.7	4.4
85°	0.0	0.0	0.0	4.4	17.4	21.8	21.8	13.1	4.4	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	13.1	13.1	4.4	4.4
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°
18179.0	0°	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0	18179.0
18113.7	2.5°	18013.5	18183.4	18335.8	18240.0	18205.1	18135.4	18083.2	18026.6	18022.2
17956.9	5°	17856.7	18017.9	18165.9	18052.7	18061.4	18026.6	17991.7	17978.7	17987.4
17795.7	7.5°	17721.7	17856.7	18017.9	17922.0	17948.2	17926.4	17909.0	17882.8	17922.0
17586.7	10°	17517.0	17638.9	17826.2	17734.8	17721.7	17699.9	17682.5	17634.6	17656.4
17207.8	12.5°	17068.4	17220.8	17434.2	17329.7	17364.6	17303.6	17277.5	17247.0	17251.3
16550.1	15°	16458.7	16576.3	16794.0	16711.3	16737.4	16698.2	16698.2	16698.2	16728.7
15356.8	17.5°	15396.0	15635.5	15979.6	15875.0	15914.2	15923.0	15914.2	15944.7	15983.9
13658.2	20°	13666.9	14076.3	14703.5	14908.2	14990.9	14995.3	14934.3	15008.3	15086.7
12068.5	22.5°	12077.2	12508.4	13061.5	13623.4	13971.8	13954.4	13963.1	14011.0	14093.7
10653.1	25°	10701.0	11114.7	11615.6	12116.4	12878.6	13035.4	13039.8	13083.3	13148.6
9686.2	27.5°	9708.0	9869.1	10326.4	10831.6	11650.4	12151.3	12125.1	12164.3	12234.0
8475.4	30°	8510.2	9128.7	9233.2	9542.5	10248.0	11167.0	11171.3	11214.9	11284.6
7761.1	32.5°	7739.4	8148.8	8471.0	8479.8	9080.8	10025.9	10213.2	10256.7	10304.6
7020.7	35°	7016.4	7064.3	7499.8	7621.8	7970.2	8906.6	9237.6	9263.7	9342.1
5971.1	37.5°	6071.3	6354.4	6476.3	6911.9	6929.3	7687.1	8344.7	8318.6	8379.6
5139.2	40°	5204.6	5474.6	5783.8	6101.8	6145.3	6711.5	7438.8	7465.0	7491.1
4263.8	42.5°	4298.7	4642.7	4960.7	5174.1	5470.3	5796.9	6489.4	6611.3	6672.3
3654.1	45°	3719.4	3815.2	4194.1	4507.7	4808.2	4960.7	5609.6	5831.7	5870.9
2891.9	47.5°	2931.1	3253.4	3510.4	3776.0	4150.6	4285.6	4756.0	5065.2	5095.7
2147.2	50°	2264.8	2495.6	2848.4	3087.9	3523.4	3597.5	3919.8	4320.5	4359.6
1437.2	52.5°	1620.2	1933.8	2277.8	2508.6	2926.8	3022.6	3262.1	3645.4	3671.5
1101.9	55°	1162.9	1367.6	1650.7	1981.7	2286.5	2499.9	2665.4	3031.3	3066.1
723.0	57.5°	792.7	984.3	1101.9	1432.9	1615.8	1846.6	1981.7	2260.4	2286.5
344.1	60°	378.9	470.4	561.8	727.3	844.9	1040.9	1128.0	1241.3	1271.7
209.1	62.5°	243.9	287.4	365.8	435.5	548.8	670.7	705.6	801.4	836.2
130.7	65°	161.1	204.7	287.4	304.9	418.1	513.9	557.5	627.2	666.4
78.4	67.5°	91.5	143.7	213.4	252.6	331.0	422.5	470.4	531.3	566.2
52.3	70°	61.0	117.6	169.9	209.1	261.3	339.7	400.7	453.0	474.7
26.1	72.5°	34.8	74.0	117.6	165.5	209.1	283.1	339.7	383.3	252.6
17.4	75°	21.8	56.6	100.2	139.4	174.2	226.5	274.4	270.0	113.2
13.1	77.5°	17.4	43.6	87.1	117.6	143.7	156.8	196.0	222.1	87.1
8.7	80°	13.1	34.8	78.4	100.2	56.6	113.2	152.4	165.5	61.0
8.7	82.5°	8.7	21.8	65.3	69.7	39.2	82.8	121.9	108.9	43.6
4.4	85°	4.4	13.1	21.8	39.2	34.8	39.2	30.5	43.6	30.5
4.4	87.5°	4.4	8.7	17.4	17.4	17.4	13.1	17.4	17.4	17.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18179.0
<i>18126.7</i>
18096.2
18030.9
17760.9
17377.6
16741.8
16114.6
15139.0
14106.8
13261.9
12299.4
11406.5
10413.5
9424.9
8453.6
7573.9
6759.4
5966.8
5169.7
4416.3
3719.4
3096.6
2338.8
1306.6
844.9
666.4
561.8
470.4
204.7
113.2
87.1
65.3
43.6
30.5
17.4
0.0

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