

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: P637785

Luminaire Tested: **IFLD-S-SA2E-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637785
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11241.7 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

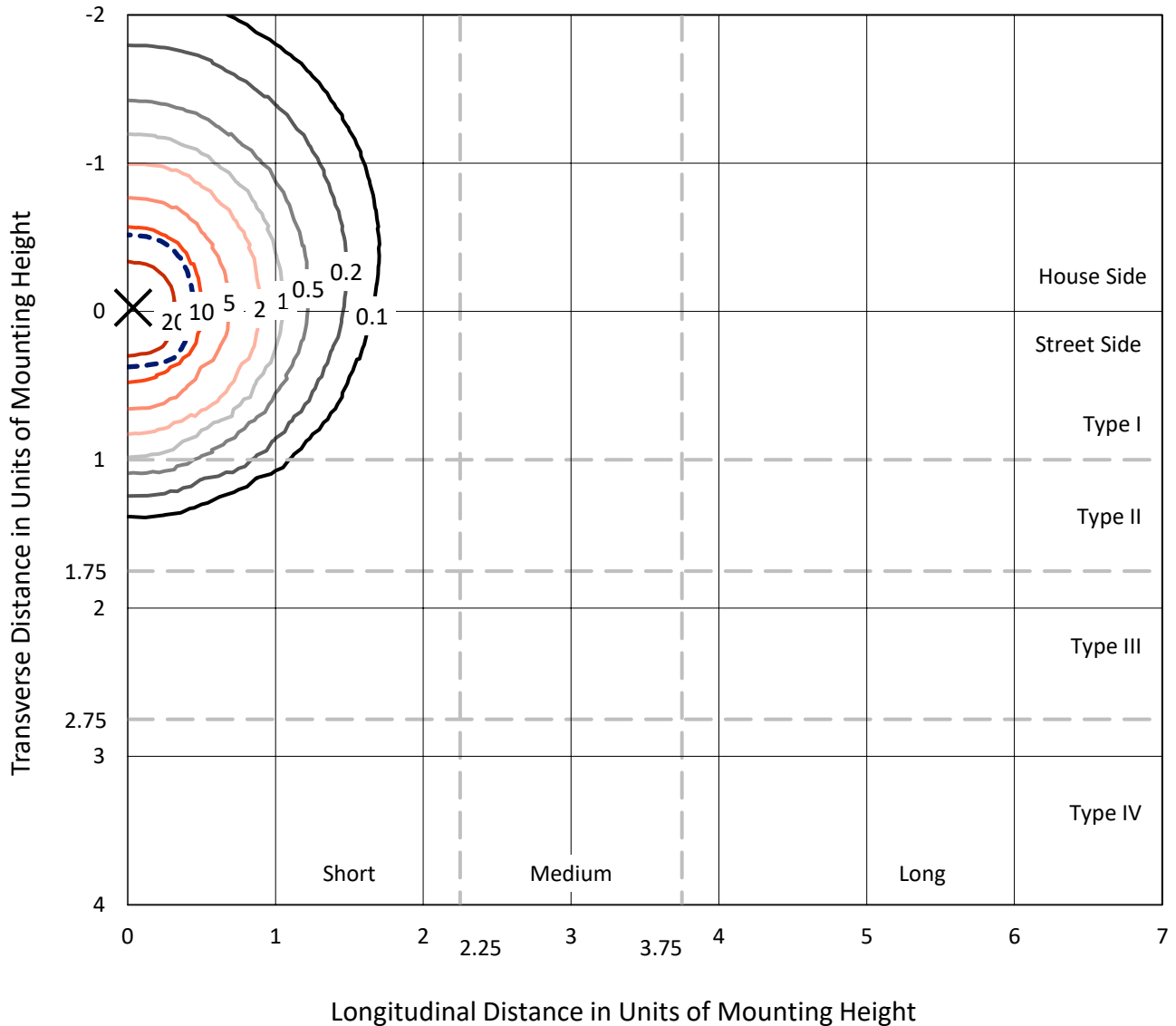
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

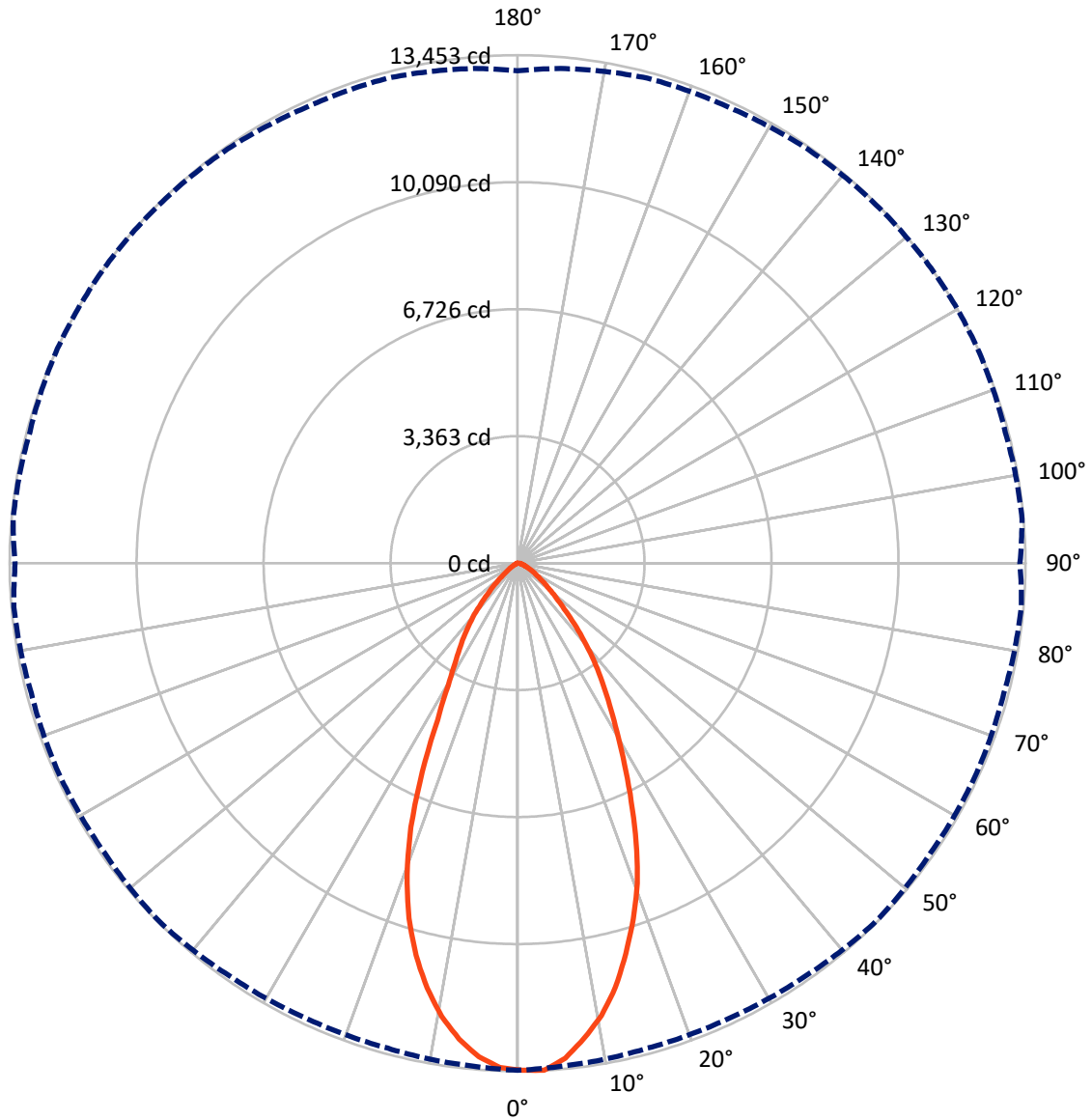
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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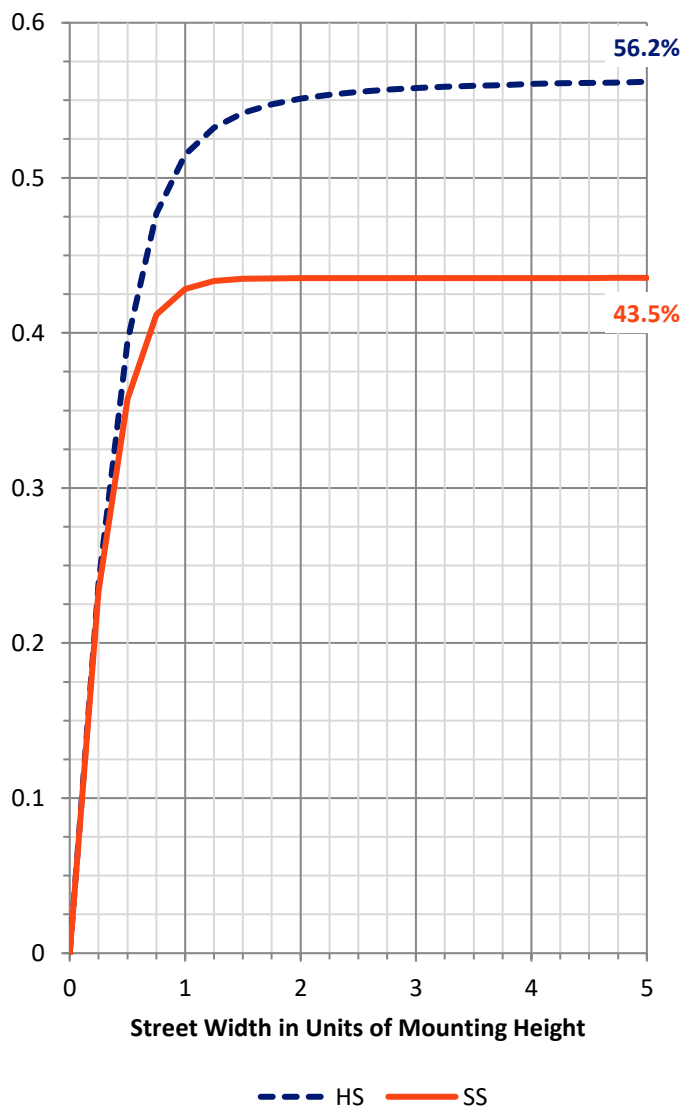
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6379.0	0.0	6379.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4862.7	0.0	4862.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	11241.7	0.0	11241.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1219.6	10.8
10°-20°	2907.2	25.9
20°-30°	2961.0	26.3
30°-40°	2208.0	19.6
40°-50°	1153.5	10.3
50°-60°	485.2	4.3
60°-70°	198.1	1.8
70°-80°	83.4	0.7
80°-90°	25.7	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°	11241.7	100.0
0°-180°	11241.7	100.0



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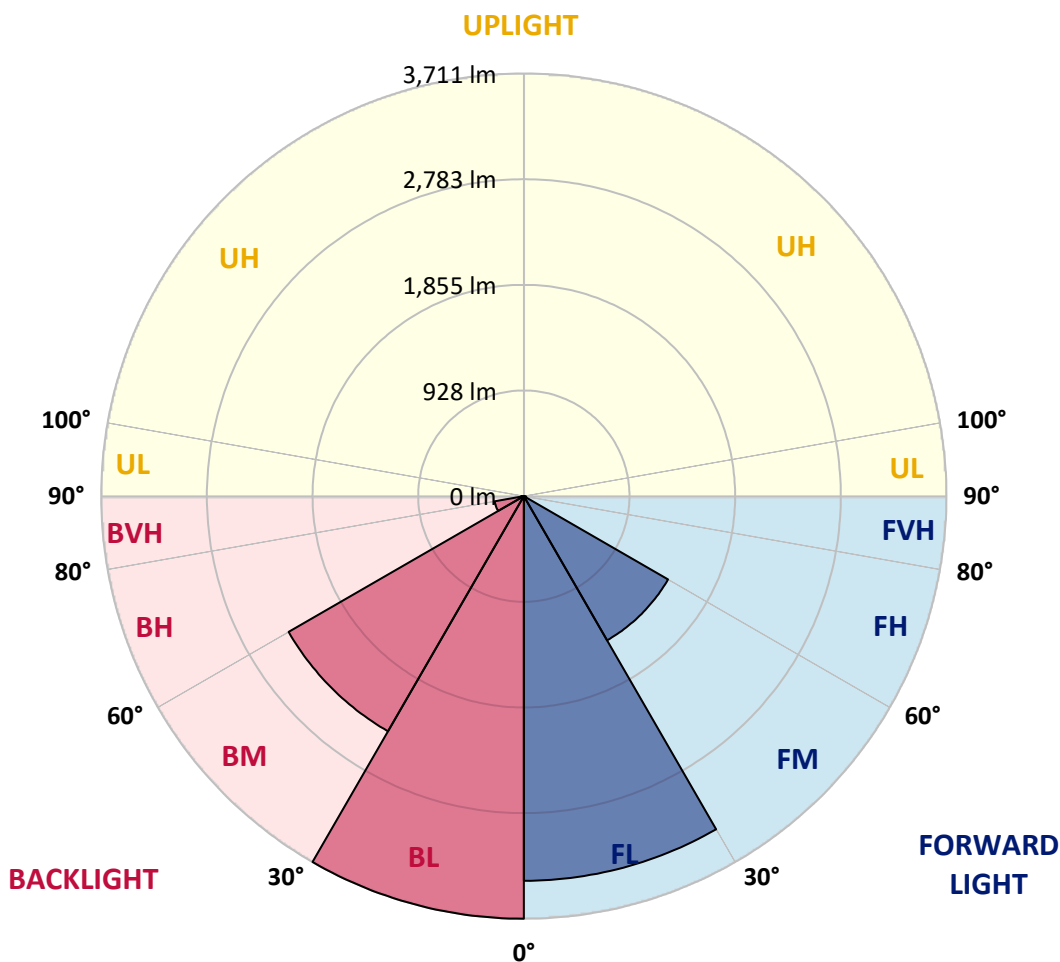
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3377.1	30.0			
FM (30°-60°)	1462.0	13.0			
FH (60°-80°)	21.1	0.2			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	3710.7	33.0	B4/5000		
BM (30°-60°)	2384.6	21.2	B2/2500		
BH (60°-80°)	260.4	2.3	B1/500		G1/500
BVH (80°-90°)	23.3	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°	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1
2.5°	13432.6	13377.7	13299.7	13292.5	13332.9	13421.0	13364.7	13367.6	13332.9	13392.1
5°	13221.7	13169.7	13116.3	13045.5	13104.8	13142.3	13113.4	13081.7	13036.9	13094.6
7.5°	12823.2	12794.3	12714.9	12683.1	12719.2	12761.1	12699.0	12690.3	12628.2	12703.3
10°	12213.8	12202.2	12124.2	12105.5	12137.2	12200.8	12173.3	12167.6	12128.6	12121.4
12.5°	11581.3	11536.5	11439.8	11434.0	11481.6	11577.0	11503.3	11432.5	11454.2	11473.0
15°	9952.4	9904.7	10144.5	10521.3	10719.2	10712.0	10733.6	10648.4	10622.4	10631.1
17.5°	7912.0	7831.1	7917.7	8501.1	9441.2	9987.1	9836.9	9653.5	9555.3	9490.3
20°	6828.9	6833.2	6817.4	6967.5	7553.8	8798.6	8762.5	8408.7	8280.2	8226.8
22.5°	6170.4	6145.9	6111.2	6158.9	6316.3	7047.0	7536.5	7211.6	7166.8	7107.6
25°	5524.9	5524.9	5483.1	5530.7	5575.5	5585.6	6076.6	6209.4	6122.8	6122.8
27.5°	4966.1	4937.2	4918.4	4940.1	4880.9	4596.4	4658.5	5338.7	5279.4	5243.3
30°	4411.6	4402.9	4371.1	4400.0	4180.5	3859.9	3730.0	4505.4	4567.5	4554.5
32.5°	3641.9	3676.6	3818.1	3862.8	3487.4	3228.9	3104.7	3740.1	3988.5	3978.4
35°	2475.1	2504.0	2665.7	3200.0	2891.0	2706.1	2670.0	2974.7	3383.4	3422.4
37.5°	1971.1	1966.8	2013.0	2108.3	2323.5	2278.7	2268.6	2348.0	2759.6	2776.9
40°	1624.6	1618.8	1617.3	1539.4	1485.9	1894.6	1867.2	1819.5	2176.2	2210.8
42.5°	1309.8	1315.5	1319.9	1149.5	1071.5	1461.4	1445.5	1396.4	1706.9	1747.3
45°	1028.2	1026.7	1035.4	856.3	834.7	934.3	1080.1	1041.2	1288.1	1331.4
47.5°	532.9	551.6	668.6	662.8	672.9	662.8	817.3	807.2	969.0	1038.3
50°	358.1	363.9	374.0	375.5	530.0	488.1	554.5	628.2	678.7	785.6
52.5°	277.3	281.6	255.6	239.7	324.9	361.0	363.9	434.7	473.6	582.0
55°	154.5	173.3	186.3	187.7	179.1	267.1	265.7	322.0	352.3	424.6
57.5°	20.2	24.5	37.5	121.3	119.9	148.7	186.3	233.9	251.3	310.5
60°	1.4	2.9	4.3	18.8	79.4	86.6	127.1	145.8	174.7	218.1
62.5°	0.0	0.0	1.4	4.3	15.9	50.5	66.4	76.5	102.5	143.0
65°	0.0	0.0	1.4	2.9	5.8	18.8	26.0	41.9	60.7	88.1
67.5°	0.0	0.0	1.4	2.9	4.3	7.2	11.6	18.8	31.8	53.4
70°	0.0	0.0	1.4	2.9	4.3	5.8	8.7	11.6	17.3	28.9
72.5°	0.0	0.0	1.4	1.4	2.9	7.2	7.2	8.7	11.6	15.9
75°	0.0	0.0	1.4	2.9	4.3	7.2	7.2	7.2	8.7	10.1
77.5°	0.0	0.0	1.4	2.9	4.3	7.2	5.8	7.2	7.2	7.2
80°	0.0	0.0	1.4	2.9	4.3	7.2	8.7	7.2	5.8	5.8
82.5°	0.0	0.0	1.4	4.3	4.3	10.1	10.1	10.1	4.3	4.3
85°	0.0	0.0	2.9	4.3	7.2	11.6	11.6	8.7	4.3	2.9
87.5°	0.0	0.0	1.4	2.9	2.9	5.8	8.7	7.2	2.9	1.4
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°
13431.1	0°	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1	13431.1
13305.5	2.5°	13412.3	13376.2	13444.1	13452.8	13423.9	13387.8	13304.0	13296.8	13151.0
13010.9	5°	13158.2	13099.0	13142.3	13171.2	13161.1	13122.1	13087.4	13055.7	12924.2
12532.9	7.5°	12684.5	12662.9	12683.1	12704.8	12746.6	12704.8	12690.3	12657.1	12527.1
12062.2	10°	12158.9	12118.5	12195.0	12184.9	12173.3	12161.8	12101.1	12106.9	11953.8
11421.0	12.5°	11513.4	11445.5	11519.2	11527.9	11519.2	11478.8	11410.9	11439.8	11299.7
10554.6	15°	10645.5	10638.3	10691.7	10726.4	10751.0	10707.6	10684.5	10699.0	10615.2
9439.8	17.5°	9579.8	9673.7	9848.4	9907.6	9909.1	9953.8	9940.8	9923.5	9861.4
8205.1	20°	8326.4	8506.9	8775.5	9051.3	9130.7	9093.2	9075.9	9107.6	9015.2
7045.5	22.5°	7169.7	7324.2	7636.1	8039.0	8271.5	8294.6	8290.3	8262.9	8226.8
6117.0	25°	6187.8	6324.9	6623.9	6992.1	7438.3	7504.7	7507.6	7499.0	7467.2
5275.1	27.5°	5358.9	5524.9	5689.6	6018.8	6493.9	6768.3	6733.6	6723.5	6711.9
4564.6	30°	4608.0	4817.4	4971.9	5176.9	5602.9	5974.0	6010.1	5992.8	5965.4
3976.9	32.5°	4013.0	4137.2	4333.6	4472.2	4778.4	5198.6	5337.2	5324.2	5299.7
3446.9	35°	3496.0	3545.1	3699.7	3854.2	4057.8	4465.0	4670.1	4641.2	4636.8
2808.7	37.5°	2879.4	3044.1	3129.3	3285.2	3428.2	3744.4	4027.5	4014.5	4015.9
2258.5	40°	2324.9	2420.2	2589.2	2720.6	2852.0	3083.0	3397.9	3406.5	3403.6
1748.7	42.5°	1784.8	1877.3	2054.9	2197.8	2314.8	2457.8	2758.1	2768.2	2781.2
1361.7	45°	1393.5	1452.7	1582.7	1731.4	1855.6	1942.2	2170.4	2235.4	2236.8
1055.6	47.5°	1081.6	1149.5	1241.9	1384.8	1506.1	1568.2	1734.3	1822.4	1818.1
810.1	50°	849.1	911.2	986.3	1098.9	1230.3	1279.4	1402.2	1488.8	1484.5
610.8	52.5°	649.8	729.2	795.7	882.3	1010.8	1052.7	1140.8	1240.4	1226.0
447.7	55°	492.4	573.3	635.4	707.6	824.6	878.0	938.6	1018.1	1020.9
346.6	57.5°	371.1	454.9	511.2	584.8	672.9	732.1	778.3	863.5	862.1
236.8	60°	265.7	337.9	405.8	482.3	550.2	618.1	649.8	730.7	733.6
167.5	62.5°	192.1	259.9	324.9	391.3	452.0	518.4	547.3	610.8	619.5
109.7	65°	134.3	182.0	257.0	307.6	375.5	424.6	462.1	517.0	527.1
65.0	67.5°	86.6	131.4	203.6	248.4	310.5	352.3	391.3	434.7	447.7
41.9	70°	52.0	99.6	151.6	199.3	255.6	293.1	330.7	368.2	375.5
20.2	72.5°	33.2	69.3	109.7	161.7	205.1	245.5	278.7	306.1	284.5
13.0	75°	18.8	47.7	86.6	127.1	166.1	205.1	232.5	246.9	197.8
8.7	77.5°	11.6	34.7	70.8	102.5	128.5	164.6	182.0	190.6	141.5
5.8	80°	7.2	26.0	59.2	83.8	83.8	121.3	141.5	148.7	102.5
4.3	82.5°	5.8	18.8	46.2	63.5	56.3	91.0	111.2	112.6	72.2
2.9	85°	4.3	14.4	28.9	41.9	39.0	63.5	65.0	72.2	47.7
2.9	87.5°	2.9	8.7	17.3	24.5	21.7	30.3	34.7	39.0	26.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13431.1
13036.9
12818.8
12499.7
11901.9
11259.3
10514.1
9769.0
8948.8
8157.4
7360.3
6644.1
5930.7
5234.7
4589.2
3969.7
3353.1
2737.9
2199.3
1802.2
1484.5
1227.4
1020.9
859.2
726.4
616.6
524.2
446.2
369.7
264.3
187.7
132.9
95.3
66.4
43.3
23.1
0.0

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