

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: P477253

Luminaire Tested: **IFLD-L-SA8D-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477253  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

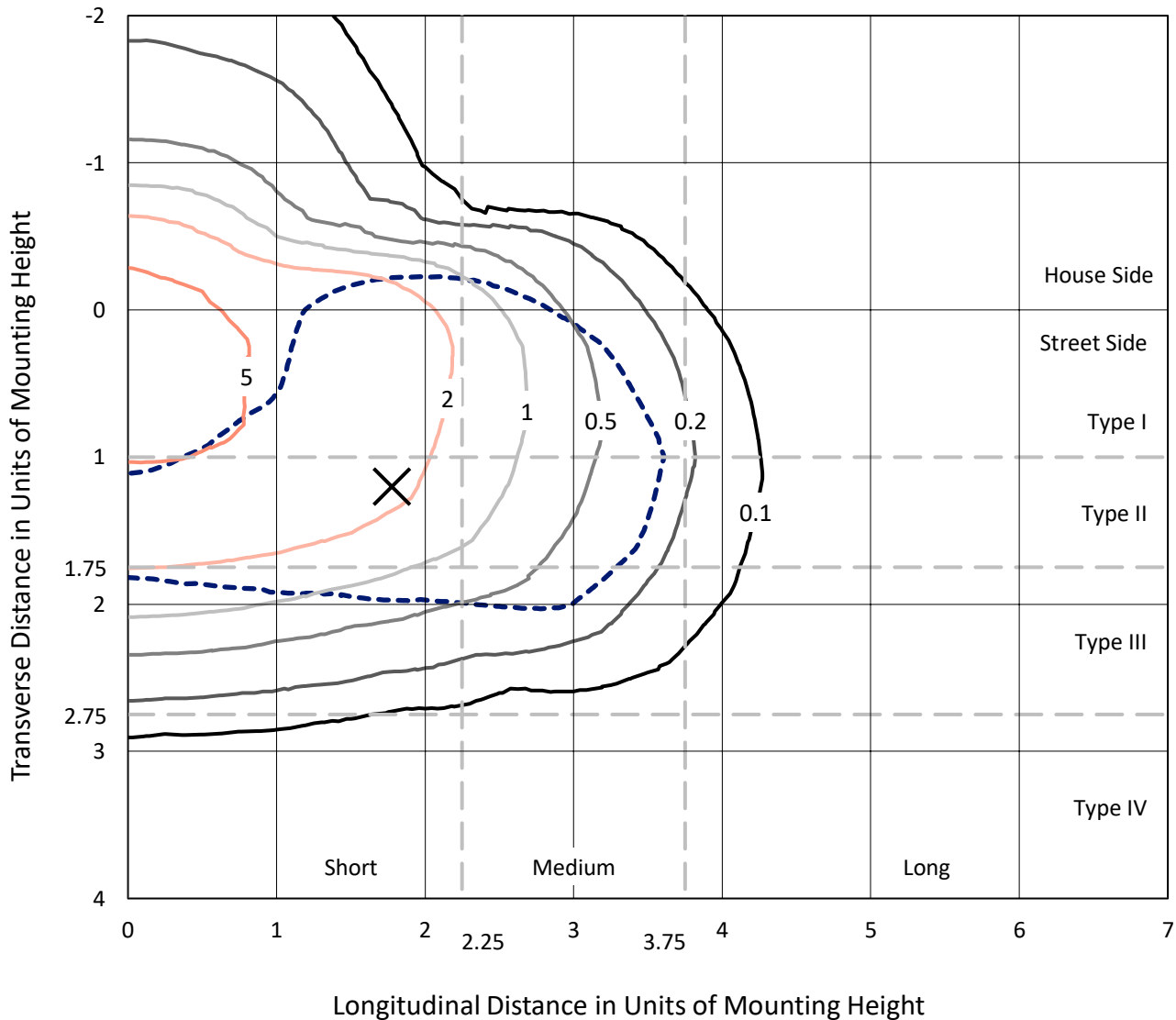
Lumens per Lamp: N/A  
Luminaire Lumens: 41824.2 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

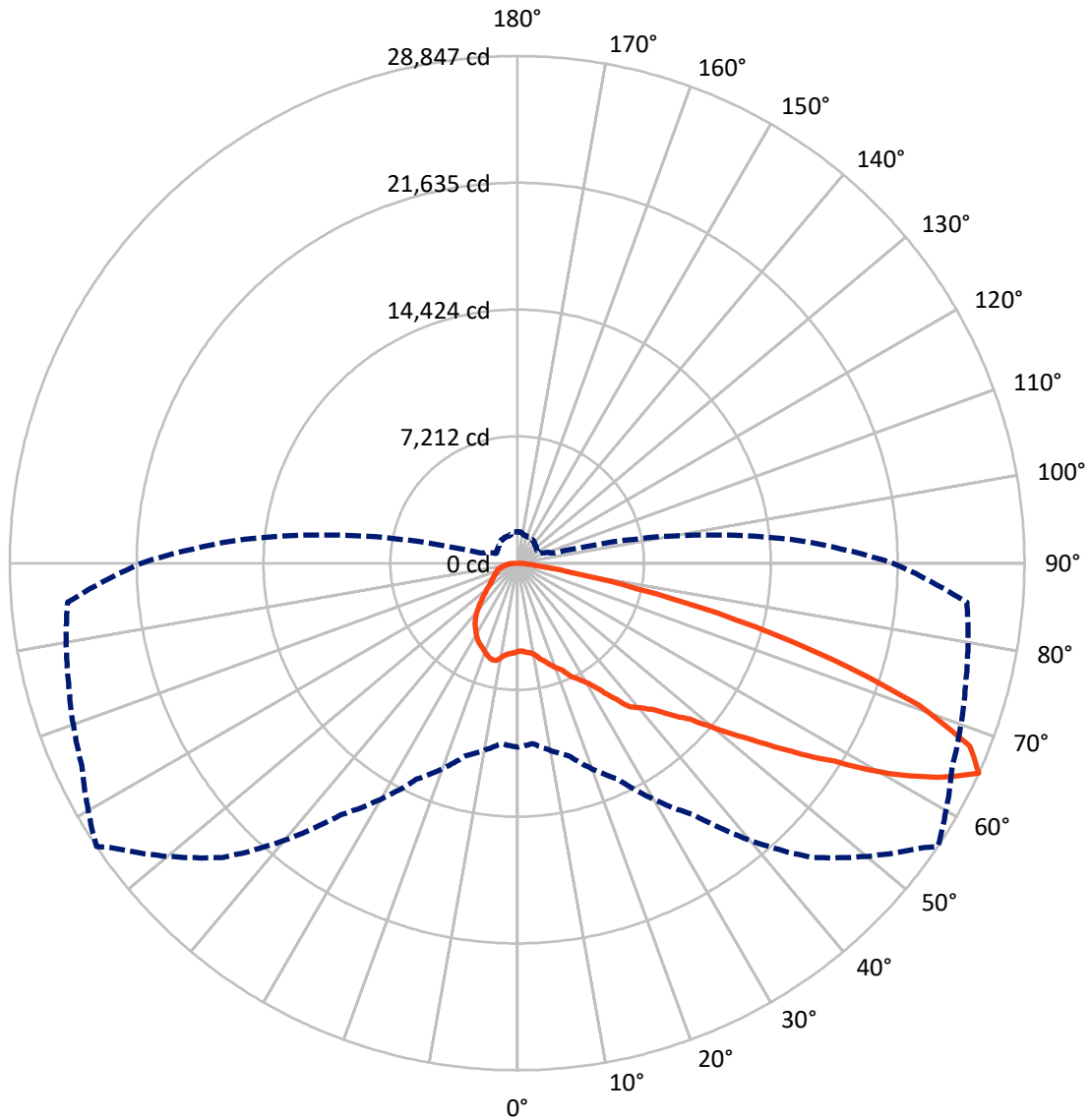
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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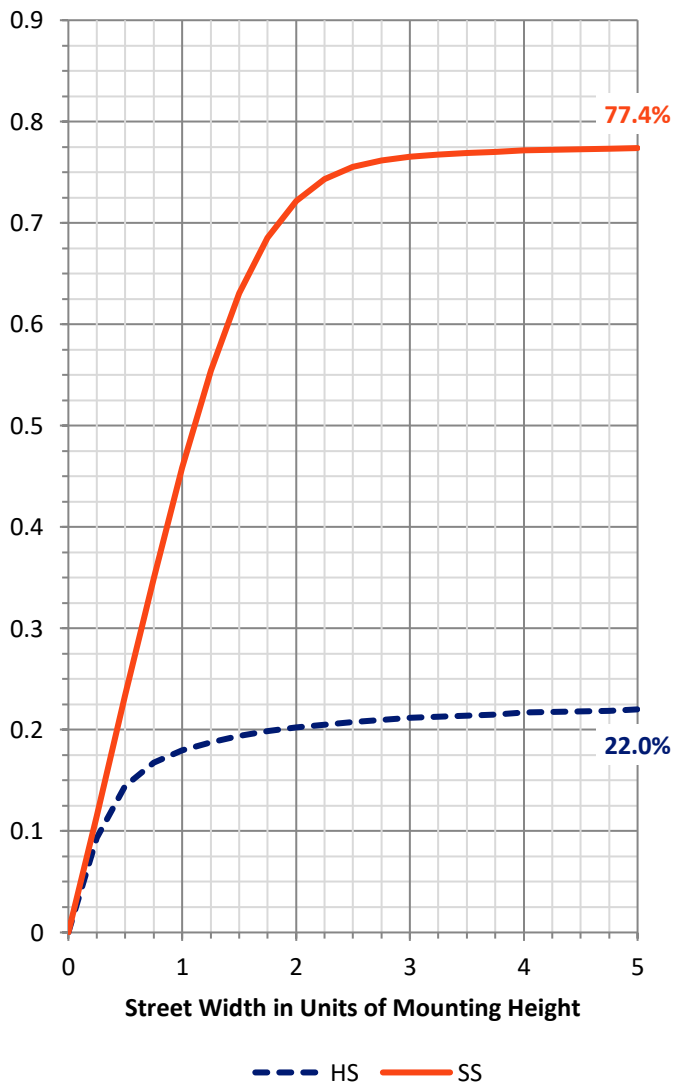
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9379.8	0.0	9379.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	32444.4	0.0	32444.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	41824.2	0.0	41824.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.5	1.2
10°-20°	1615.4	3.9
20°-30°	2876.3	6.9
30°-40°	4307.1	10.3
40°-50°	6381.5	15.3
50°-60°	9833.0	23.5
60°-70°	11132.2	26.6
70°-80°	4620.0	11.0
80°-90°	561.3	1.3
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°	41824.2	100.0
0°-180°	41824.2	100.0

**Coefficient of Utilization**



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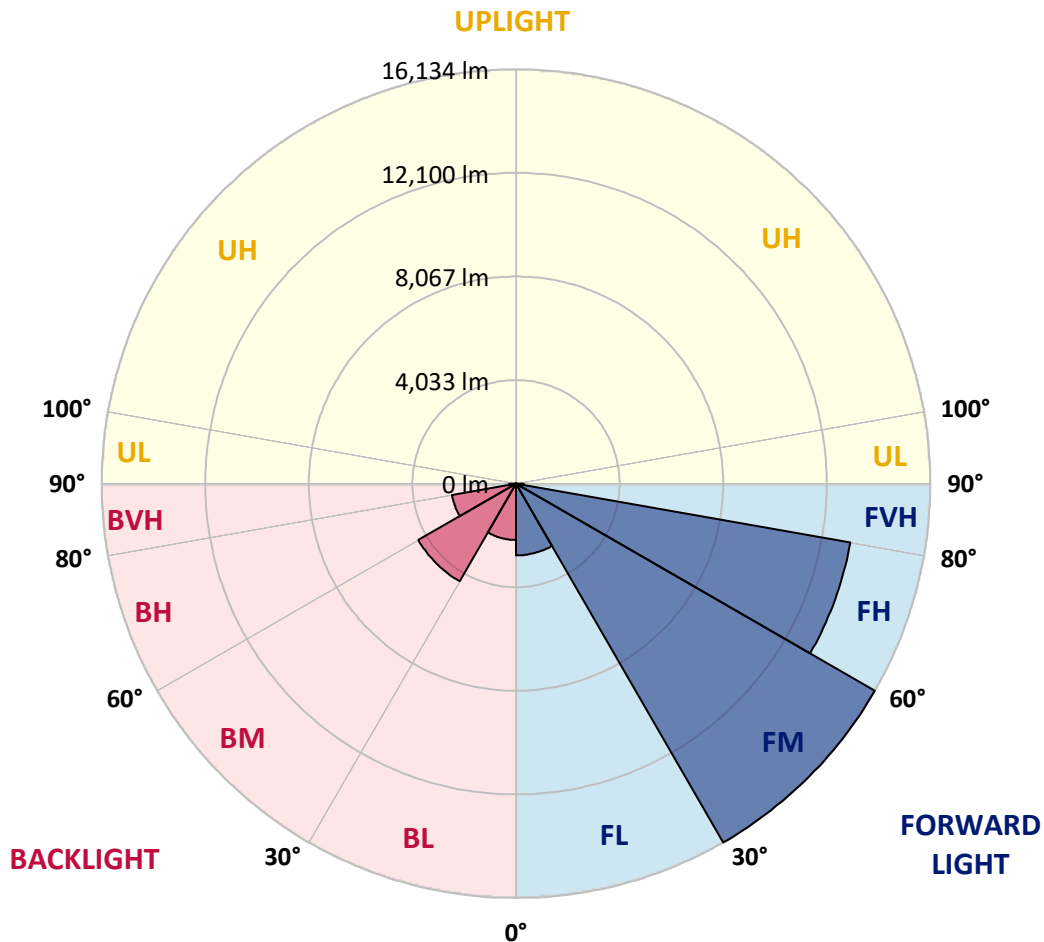
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.1	6.7			
FM (30°-60°)	16134.0	38.6			
FH (60°-80°)	13219.3	31.6			G5
FVH (80°-90°)	296.1	0.7			G3/500
BL (0°-30°)	2194.0	5.2	B3/2500		
BM (30°-60°)	4387.7	10.5	B3/5000		
BH (60°-80°)	2532.9	6.1	B4/5000		G4/5000
BVH (80°-90°)	265.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1
2.5°	4888.8	4915.1	4897.6	4950.1	4993.8	4993.8	5028.9	5002.6	5037.6	5085.8
5°	5050.7	4945.7	5002.6	5028.9	5015.7	5037.6	5002.6	5090.1	5033.2	5125.1
7.5°	5090.1	5129.5	5177.7	5133.9	5173.3	5151.4	5155.8	5142.6	5112.0	5186.4
10°	5379.0	5322.1	5431.5	5365.9	5357.1	5348.4	5330.8	5265.2	5339.6	5344.0
12.5°	5711.6	5659.1	5654.7	5602.2	5672.2	5545.3	5571.6	5536.6	5549.7	5567.2
15°	5952.3	5930.5	6031.1	5969.9	5877.9	5821.0	5882.3	5786.0	5834.2	5825.4
17.5°	6429.4	6425.0	6350.6	6250.0	6197.4	6114.3	6101.2	6061.8	6096.8	6079.3
20°	6762.0	6810.2	6823.3	6705.1	6503.8	6411.9	6390.0	6359.4	6398.8	6385.6
22.5°	7269.7	7195.3	7252.2	7046.5	6972.1	6753.3	6674.5	6630.7	6818.9	6770.8
25°	7593.6	7672.4	7615.5	7545.5	7379.2	7107.8	7050.9	7147.2	7221.6	7169.1
27.5°	8324.5	8245.7	8193.2	7983.1	7873.7	7589.2	7523.6	7488.6	7506.1	7536.7
30°	8880.4	8924.1	8806.0	8657.2	8381.4	8092.6	7939.4	7908.7	7847.5	7794.9
32.5°	9672.6	9606.9	9536.9	9440.6	9204.2	8823.5	8674.7	8560.9	8377.0	8132.0
35°	10053.3	10241.5	10189.0	9930.8	9751.3	9606.9	9563.1	9388.1	9234.9	8849.7
37.5°	10688.0	10766.7	10692.3	10609.2	10526.0	10372.8	10320.3	10368.5	10066.5	9431.8
40°	11099.4	11265.7	11418.9	11186.9	11169.4	11200.0	10876.2	10819.3	10197.8	9865.1
42.5°	11939.7	12009.7	12040.4	12031.6	12132.3	12132.3	11515.2	11392.6	10950.6	10679.2
45°	13051.4	13108.3	13217.7	13296.5	13182.7	13239.6	12359.9	12311.7	11917.8	11865.3
47.5°	14014.3	14149.9	14395.0	14627.0	14775.8	14583.2	13620.4	13279.0	13178.3	13493.4
50°	14854.6	14692.7	15266.0	15502.4	16154.5	16474.0	15012.2	14876.5	14714.5	15318.5
52.5°	14937.8	15156.6	15966.3	16439.0	17782.6	18373.5	16719.1	16662.2	16465.2	17161.1
55°	15533.0	15506.7	16320.8	17345.0	18942.5	19936.0	18942.5	18907.4	18478.5	19139.4
57.5°	15432.3	15699.3	16342.7	17773.9	19988.5	21612.3	21520.3	21279.6	20680.0	21218.4
60°	15090.9	15161.0	15944.4	17760.7	20596.9	23332.3	24303.9	24352.1	23126.6	23555.5
62.5°	13156.4	13318.4	14311.9	16364.6	20163.6	24518.4	27021.9	26851.2	25870.8	25380.6
65°	10464.7	10302.8	11335.7	13554.7	17467.5	23678.1	28212.4	28847.0	27306.4	26409.1
67.5°	6416.3	6376.9	7370.4	9326.8	13068.9	20150.4	27262.6	27757.2	26908.1	26190.3
70°	3304.4	3203.8	3825.3	5203.9	8215.1	14784.6	23726.2	24212.0	25021.7	23489.9
72.5°	1540.6	1518.7	1851.4	2560.4	4184.1	8692.2	18373.5	18723.6	20430.5	19804.7
75°	906.0	919.1	1107.3	1339.3	2039.6	4096.6	12193.6	12871.9	14723.3	14272.5
77.5°	678.4	678.4	787.8	932.2	1190.5	1584.4	6018.0	6915.2	8609.0	7742.4
80°	498.9	507.7	604.0	700.3	827.2	818.4	2389.7	2801.1	3947.8	3374.5
82.5°	389.5	402.7	468.3	520.8	582.1	494.6	980.4	1054.8	1623.8	1291.1
85°	271.4	280.1	367.6	354.5	354.5	275.7	407.0	428.9	643.4	612.7
87.5°	65.7	74.4	179.4	197.0	148.8	83.2	126.9	144.4	232.0	267.0
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5020.1	0°	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1
5107.6	2.5°	5042.0	5059.5	5133.9	5094.5	5116.4	5024.5	5098.9	5037.6	5090.1	5063.9
5147.0	5°	5182.0	5142.6	5186.4	5155.8	5155.8	5190.8	5243.3	5203.9	5282.7	5247.7
5177.7	7.5°	5238.9	5243.3	5269.6	5274.0	5252.1	5361.5	5365.9	5352.7	5427.1	5409.6
5387.7	10°	5379.0	5383.4	5431.5	5457.8	5435.9	5475.3	5431.5	5396.5	5392.1	5374.6
5554.1	12.5°	5602.2	5646.0	5637.2	5659.1	5663.5	5497.2	5396.5	5225.8	5203.9	5225.8
5799.2	15°	5807.9	5790.4	5799.2	5842.9	5659.1	5392.1	5212.7	5068.2	5077.0	5081.4
6118.7	17.5°	6053.0	6066.1	6079.3	5877.9	5540.9	5225.8	5068.2	5068.2	5024.5	5042.0
6341.9	20°	6333.1	6280.6	6166.8	5882.3	5335.2	5033.2	4985.1	4985.1	4932.6	4897.6
6582.6	22.5°	6552.0	6446.9	6276.2	5746.6	5151.4	4958.8	4840.7	4757.5	4696.2	4626.2
6849.6	25°	6692.0	6635.1	6302.5	5606.6	5015.7	4761.9	4586.8	4459.9	4381.1	4289.2
7059.7	27.5°	6906.5	6797.1	6376.9	5444.6	4866.9	4564.9	4293.6	4096.6	3947.8	3851.5
7379.2	30°	7195.3	7037.8	6324.4	5212.7	4639.3	4223.5	3904.0	3650.2	3479.5	3400.7
7681.1	32.5°	7431.7	7226.0	6280.6	5002.6	4385.5	3877.8	3453.2	3195.0	3098.7	2998.1
8188.8	35°	7882.5	7475.4	6250.0	4884.4	4157.9	3532.0	3085.6	2862.4	2739.8	2591.0
8490.8	37.5°	8228.2	7908.7	6175.6	4639.3	3864.6	3195.0	2805.5	2604.2	2420.3	2262.8
9191.1	40°	8771.0	8512.7	6179.9	4293.6	3518.9	2906.1	2586.6	2376.6	2144.6	2008.9
10228.4	42.5°	9790.7	9108.0	6206.2	4017.8	3129.4	2669.8	2389.7	2140.2	1908.3	1794.5
11410.1	45°	11042.5	9926.4	6044.3	3768.4	2731.1	2446.6	2153.3	1903.9	1755.1	1671.9
13016.4	47.5°	12482.4	10727.3	5825.4	3300.0	2398.4	2210.2	1934.5	1790.1	1680.7	1632.5
15086.6	50°	14093.0	11874.1	5764.1	2871.1	2140.2	2008.9	1829.5	1720.1	1645.6	1588.8
17419.4	52.5°	16167.6	13209.0	5641.6	2429.1	1917.0	1847.0	1790.1	1715.7	1650.0	1601.9
19594.6	55°	18150.3	14688.3	5510.3	2065.8	1759.4	1768.2	1798.8	1733.2	1676.3	1601.9
22032.4	57.5°	20382.4	16198.3	5024.5	1798.8	1641.3	1728.8	1790.1	1715.7	1658.8	1601.9
24527.2	60°	21761.1	17047.3	4074.7	1566.9	1536.2	1654.4	1737.6	1658.8	1597.5	1619.4
25673.9	62.5°	22321.3	16600.9	3072.5	1422.4	1461.8	1553.7	1654.4	1623.8	1580.0	1663.2
25660.7	65°	21367.2	15572.4	2197.1	1299.9	1361.2	1453.1	1580.0	1615.0	1628.1	1790.1
23568.7	67.5°	19012.5	13559.1	1615.0	1199.2	1256.1	1391.8	1632.5	1689.4	1680.7	1882.0
19778.4	70°	15213.5	10604.8	1260.5	1116.1	1216.7	1439.9	1706.9	1706.9	1645.6	1882.0
15086.6	72.5°	11068.7	7475.4	1085.4	1019.8	1116.1	1321.8	1698.2	1693.8	1615.0	1720.1
9606.9	75°	6700.8	4350.5	958.5	923.5	958.5	1133.6	1623.8	1597.5	1488.1	1479.3
4621.8	77.5°	3339.4	2188.4	783.4	818.4	836.0	949.7	1426.8	1466.2	1317.4	1282.4
1825.1	80°	1409.3	954.1	652.1	704.7	704.7	800.9	1186.1	1212.4	1094.2	1028.5
722.2	82.5°	643.4	547.1	555.8	612.7	573.4	621.5	941.0	971.6	888.5	779.1
306.4	85°	271.4	310.7	424.5	481.4	424.5	402.7	647.8	682.8	577.7	481.4
131.3	87.5°	122.5	170.7	267.0	350.1	214.5	188.2	345.8	358.9	288.9	214.5
0.0	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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180°  
5020.1  
5015.7  
5199.5  
5383.4  
5374.6  
5234.6  
5142.6  
5046.4  
4845.0  
4586.8  
4306.7  
3895.3  
3444.5  
2993.7  
2577.9  
2267.1  
2022.0  
1803.2  
1689.4  
1623.8  
1597.5  
1597.5  
1597.5  
1597.5  
1601.9  
1641.3  
*1790.1*  
1895.1  
1842.6  
1658.8  
1461.8  
1260.5  
1006.6  
761.5  
485.8  
201.3  
0.0

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