

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: P477446

Luminaire Tested: **IFLD-L-SA8B-750-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477446  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-750-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

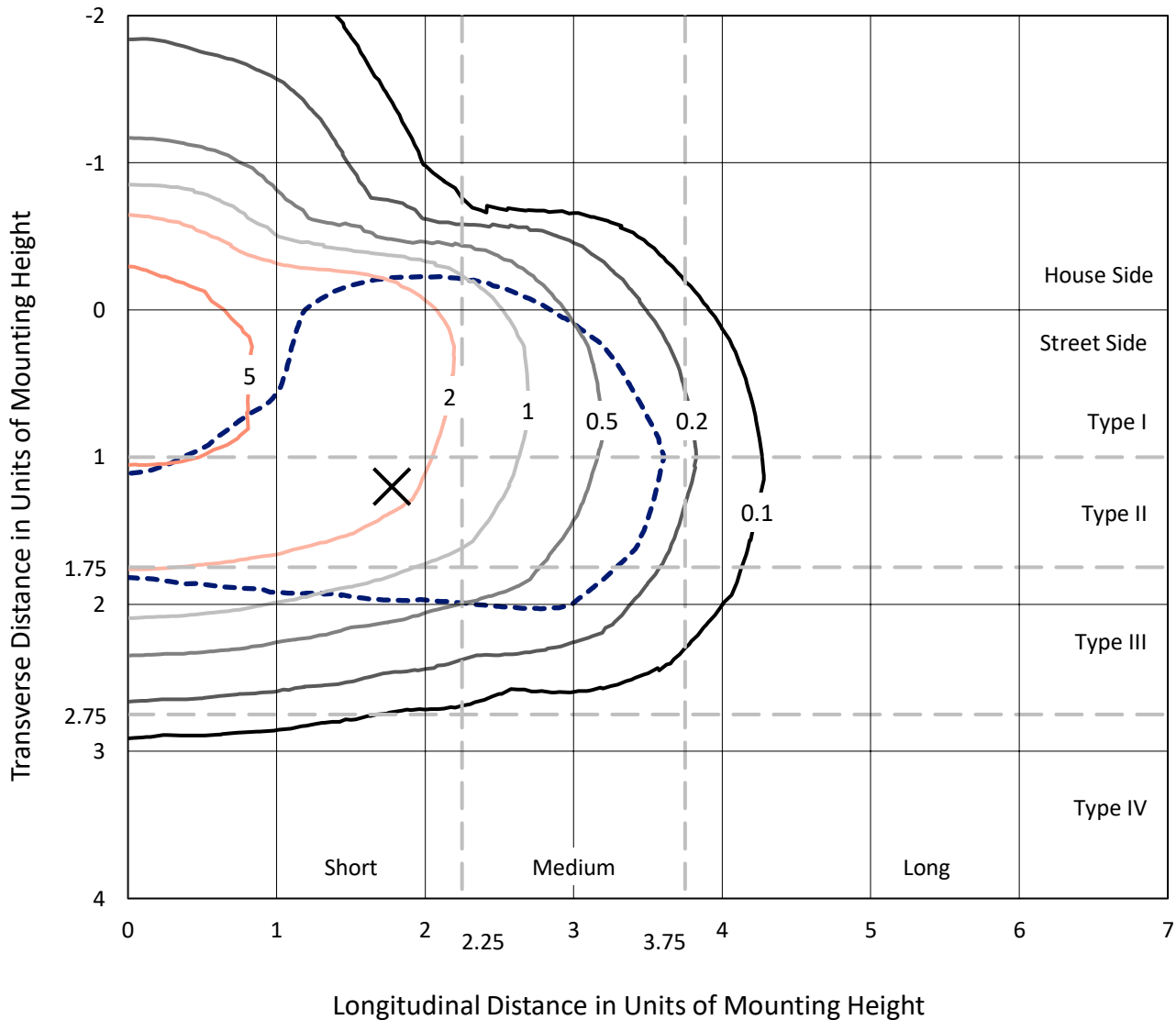
Lumens per Lamp: N/A  
Luminaire Lumens: 42401.7 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 320  
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

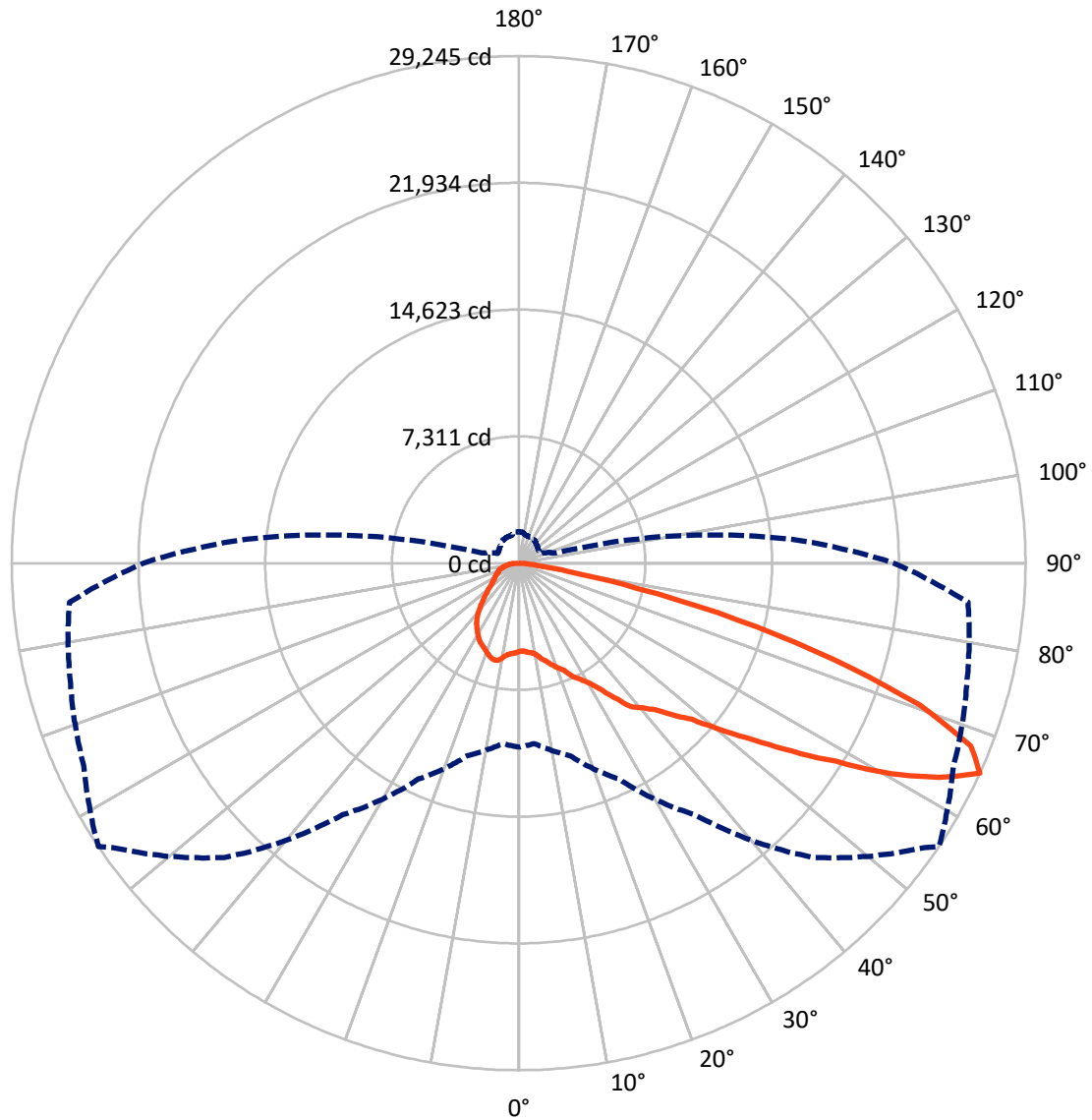
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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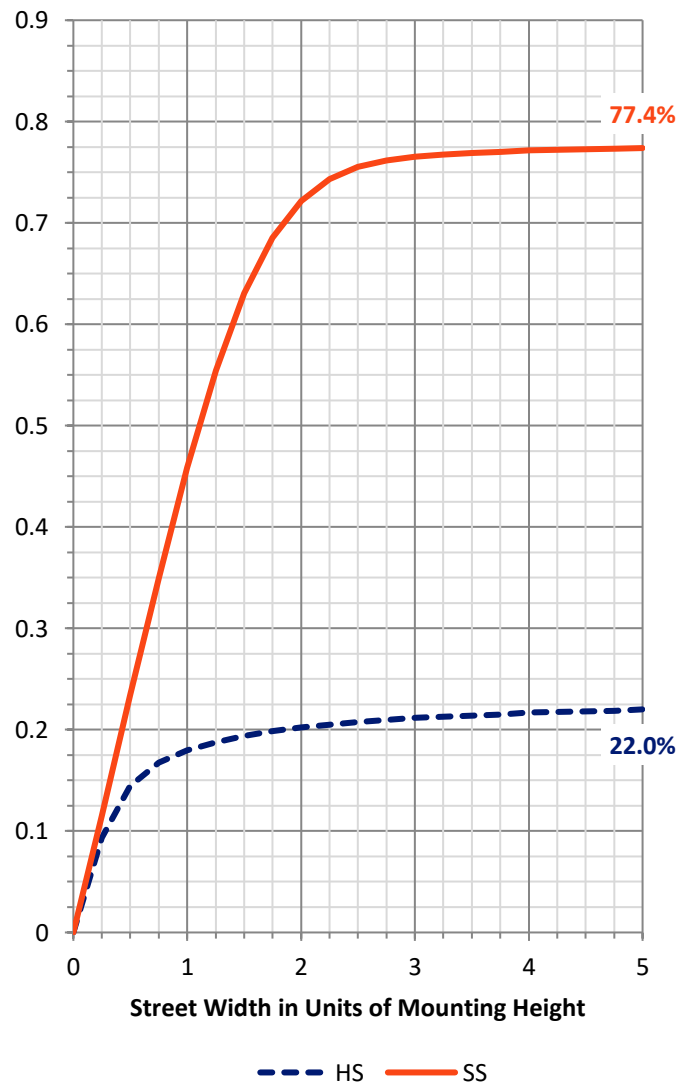
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9509.3	0.0	9509.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	32892.4	0.0	32892.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	42401.7	0.0	42401.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.3	1.2
10°-20°	1637.7	3.9
20°-30°	2916.0	6.9
30°-40°	4366.6	10.3
40°-50°	6469.6	15.3
50°-60°	9968.8	23.5
60°-70°	11285.9	26.6
70°-80°	4683.8	11.0
80°-90°	569.0	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°	42401.7	100.0
0°-180°	42401.7	100.0

**Coefficient of Utilization**



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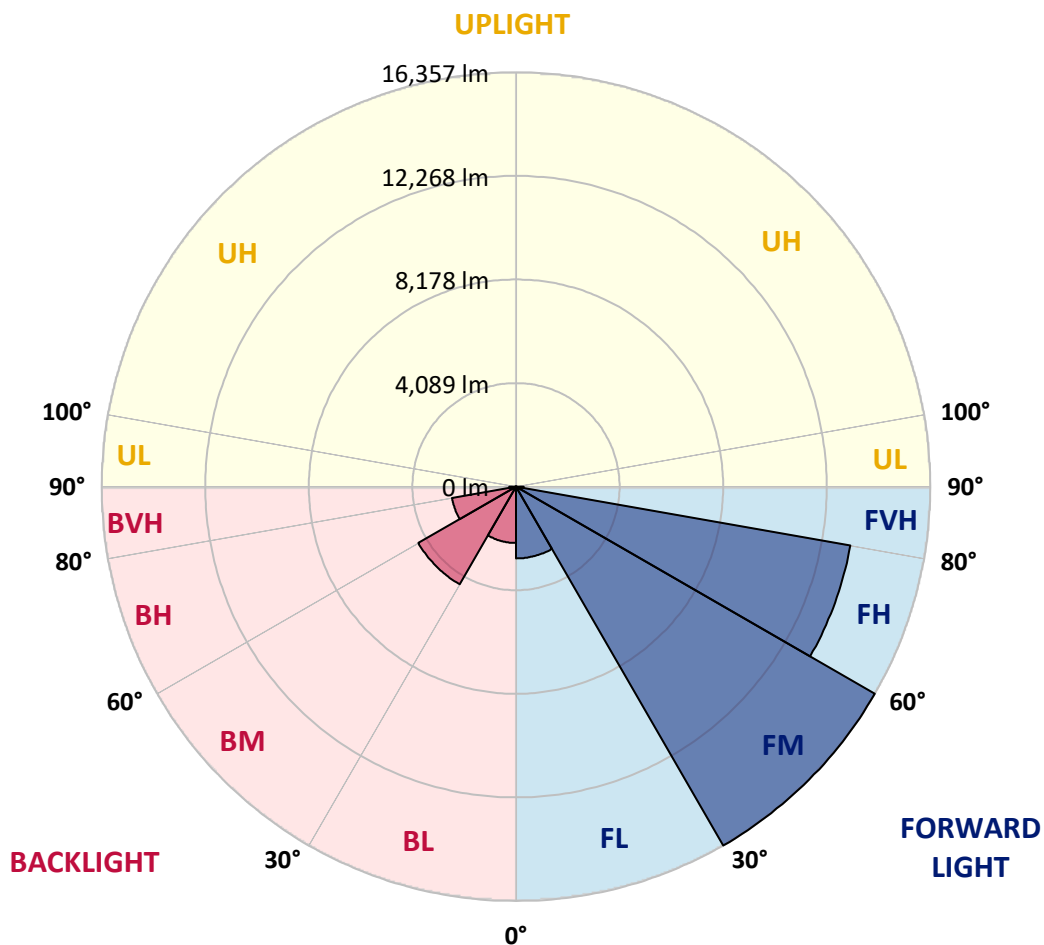
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2833.7	6.7			
FM (30°-60°)	16356.7	38.6			
FH (60°-80°)	13401.8	31.6			G5
FVH (80°-90°)	300.1	0.7			G3/500
BL (0°-30°)	2224.3	5.2	B3/2500		
BM (30°-60°)	4448.3	10.5	B3/5000		
BH (60°-80°)	2567.8	6.1	B4/5000		G4/5000
BVH (80°-90°)	268.9	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°	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4
2.5°	4956.3	4982.9	4965.2	5018.4	5062.8	5062.8	5098.3	5071.7	5107.2	5156.0
5°	5120.5	5014.0	5071.7	5098.3	5085.0	5107.2	5071.7	5160.4	5102.7	5195.9
7.5°	5160.4	5200.3	5249.2	5204.8	5244.7	5222.5	5227.0	5213.7	5182.6	5258.0
10°	5453.3	5395.6	5506.5	5439.9	5431.1	5422.2	5404.5	5337.9	5413.3	5417.8
12.5°	5790.5	5737.2	5732.8	5679.6	5750.5	5621.9	5648.5	5613.0	5626.3	5644.1
15°	6034.5	6012.3	6114.4	6052.3	5959.1	5901.4	5963.5	5865.9	5914.7	5905.9
17.5°	6518.2	6513.7	6438.3	6336.3	6283.0	6198.7	6185.4	6145.5	6181.0	6163.2
20°	6855.4	6904.2	6917.5	6797.7	6593.6	6500.4	6478.2	6447.2	6487.1	6473.8
22.5°	7370.1	7294.7	7352.4	7143.8	7068.4	6846.5	6766.7	6722.3	6913.1	6864.3
25°	7698.5	7778.3	7720.6	7649.7	7481.0	7205.9	7148.3	7245.9	7321.3	7268.1
27.5°	8439.5	8359.6	8306.3	8093.4	7982.4	7694.0	7627.5	7592.0	7609.7	7640.8
30°	9003.0	9047.4	8927.6	8776.7	8497.1	8204.3	8049.0	8017.9	7955.8	7902.6
32.5°	9806.1	9739.5	9668.6	9570.9	9331.3	8945.3	8794.4	8679.1	8492.7	8244.2
35°	10192.1	10382.9	10329.7	10067.9	9886.0	9739.5	9695.2	9517.7	9362.4	8971.9
37.5°	10835.5	10915.4	10840.0	10755.7	10671.4	10516.1	10462.8	10511.6	10205.5	9562.1
40°	11252.6	11421.2	11576.5	11341.4	11323.6	11354.7	11026.3	10968.6	10338.6	10001.3
42.5°	12104.6	12175.5	12206.6	12197.7	12299.8	12299.8	11674.1	11549.9	11101.8	10826.7
45°	13231.6	13289.3	13400.2	13480.1	13364.7	13422.4	12530.5	12481.7	12082.4	12029.1
47.5°	14207.8	14345.3	14593.8	14829.0	14979.8	14784.6	13808.4	13462.3	13360.3	13679.7
50°	15059.7	14895.5	15476.8	15716.4	16377.5	16701.4	15219.4	15081.9	14917.7	15530.0
52.5°	15144.0	15365.9	16186.7	16665.9	18028.2	18627.2	16949.9	16892.2	16692.6	17398.1
55°	15747.5	15720.8	16546.1	17584.4	19204.0	20211.2	19204.0	19168.5	18733.7	19403.7
57.5°	15645.4	15916.1	16568.3	18019.3	20264.5	21910.7	21817.5	21573.4	20965.5	21511.3
60°	15299.3	15370.3	16164.5	18006.0	20881.2	23654.5	24639.5	24688.3	23445.9	23880.8
62.5°	13338.1	13502.3	14509.5	16590.5	20442.0	24856.9	27395.0	27221.9	26228.0	25731.0
65°	10609.2	10445.1	11492.2	13741.9	17708.7	24005.0	28601.9	29245.3	27683.4	26773.8
67.5°	6504.9	6464.9	7472.2	9455.6	13249.3	20428.7	27639.0	28140.4	27279.6	26551.9
70°	3350.1	3248.0	3878.1	5275.8	8328.5	14988.7	24053.8	24546.3	25367.2	23814.2
72.5°	1561.9	1539.7	1876.9	2595.7	4241.9	8812.2	18627.2	18982.1	20712.6	20078.1
75°	918.5	931.8	1122.6	1357.8	2067.7	4153.2	12361.9	13049.7	14926.6	14469.6
77.5°	687.8	687.8	798.7	945.1	1206.9	1606.2	6101.1	7010.7	8727.9	7849.3
80°	505.8	514.7	612.3	709.9	838.6	829.7	2422.7	2839.8	4002.3	3421.0
82.5°	394.9	408.2	474.8	528.0	590.1	501.4	993.9	1069.4	1646.2	1309.0
85°	275.1	284.0	372.7	359.4	359.4	279.5	412.7	434.8	652.3	621.2
87.5°	66.6	75.4	181.9	199.7	150.9	84.3	128.7	146.4	235.2	270.7
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°
5089.4	0°	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4	5089.4
5178.2	2.5°	5111.6	5129.3	5204.8	5164.8	5187.0	5093.9	5169.3	5107.2	5160.4	5133.8
5218.1	5°	5253.6	5213.7	5258.0	5227.0	5227.0	5262.5	5315.7	5275.8	5355.6	5320.1
5249.2	7.5°	5311.3	5315.7	5342.3	5346.8	5324.6	5435.5	5439.9	5426.6	5502.1	5484.3
5462.1	10°	5453.3	5457.7	5506.5	5533.1	5510.9	5550.9	5506.5	5471.0	5466.6	5448.8
5630.7	12.5°	5679.6	5723.9	5715.1	5737.2	5741.7	5573.1	5471.0	5298.0	5275.8	5298.0
5879.2	15°	5888.1	5870.4	5879.2	5923.6	5737.2	5466.6	5284.6	5138.2	5147.1	5151.5
6203.1	17.5°	6136.6	6149.9	6163.2	5959.1	5617.4	5298.0	5138.2	5138.2	5093.9	5111.6
6429.4	20°	6420.6	6367.3	6251.9	5963.5	5408.9	5102.7	5053.9	5053.9	5000.7	4965.2
6673.5	22.5°	6642.4	6535.9	6362.9	5826.0	5222.5	5027.3	4907.5	4823.2	4761.1	4690.1
6944.1	25°	6784.4	6726.7	6389.5	5684.0	5085.0	4827.6	4650.1	4521.5	4441.6	4348.4
7157.1	27.5°	7001.8	6890.9	6464.9	5519.8	4934.1	4628.0	4352.8	4153.2	4002.3	3904.7
7481.0	30°	7294.7	7134.9	6411.7	5284.6	4703.4	4281.9	3957.9	3700.6	3527.5	3447.7
7787.2	32.5°	7534.3	7325.7	6367.3	5071.7	4446.0	3931.3	3500.9	3239.1	3141.5	3039.4
8301.9	35°	7991.3	7578.7	6336.3	4951.9	4215.3	3580.8	3128.2	2901.9	2777.7	2626.8
8608.1	37.5°	8341.8	8017.9	6260.8	4703.4	3918.0	3239.1	2844.2	2640.1	2453.7	2294.0
9318.0	40°	8892.1	8630.3	6265.3	4352.8	3567.5	2946.3	2622.4	2409.4	2174.2	2036.7
10369.6	42.5°	9925.9	9233.7	6291.9	4073.3	3172.6	2706.7	2422.7	2169.8	1934.6	1819.2
11567.7	45°	11194.9	10063.5	6127.7	3820.4	2768.8	2480.4	2183.1	1930.2	1779.3	1695.0
13196.1	47.5°	12654.8	10875.5	5905.9	3345.6	2431.6	2240.8	1961.2	1814.8	1703.9	1655.1
15294.9	50°	14287.6	12038.0	5843.7	2910.8	2169.8	2036.7	1854.7	1743.8	1668.4	1610.7
17659.9	52.5°	16390.8	13391.3	5719.5	2462.6	1943.5	1872.5	1814.8	1739.4	1672.8	1624.0
19865.1	55°	18400.9	14891.1	5586.4	2094.3	1783.7	1792.6	1823.7	1757.1	1699.4	1624.0
22336.6	57.5°	20663.8	16421.9	5093.9	1823.7	1663.9	1752.7	1814.8	1739.4	1681.7	1624.0
24865.8	60°	22061.5	17282.7	4131.0	1588.5	1557.4	1677.2	1761.5	1681.7	1619.6	1641.7
26028.3	62.5°	22629.5	16830.1	3114.9	1442.1	1482.0	1575.2	1677.2	1646.2	1601.8	1686.1
26015.0	65°	21662.2	15787.4	2227.5	1317.8	1380.0	1473.1	1601.8	1637.3	1650.6	1814.8
23894.1	67.5°	19275.0	13746.3	1637.3	1215.8	1273.5	1411.0	1655.1	1712.7	1703.9	1908.0
20051.5	70°	15423.5	10751.2	1277.9	1131.5	1233.5	1459.8	1730.5	1730.5	1668.4	1908.0
15294.9	72.5°	11221.6	7578.7	1100.4	1033.9	1131.5	1340.0	1721.6	1717.2	1637.3	1743.8
9739.5	75°	6793.3	4410.5	971.7	936.2	971.7	1149.2	1646.2	1619.6	1508.6	1499.8
4685.6	77.5°	3385.5	2218.6	794.3	829.7	847.5	962.9	1446.5	1486.4	1335.6	1300.1
1850.3	80°	1428.8	967.3	661.1	714.4	714.4	812.0	1202.5	1229.1	1109.3	1042.7
732.1	82.5°	652.3	554.6	563.5	621.2	581.3	630.1	954.0	985.0	900.7	789.8
310.6	85°	275.1	315.0	430.4	488.1	430.4	408.2	656.7	692.2	585.7	488.1
133.1	87.5°	124.2	173.0	270.7	355.0	217.4	190.8	350.5	363.8	292.9	217.4
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°  
5089.4  
5085.0  
5271.3  
5457.7  
5448.8  
5306.8  
5213.7  
5116.0  
4911.9  
4650.1  
4366.2  
3949.1  
3492.0  
3035.0  
2613.5  
2298.4  
2050.0  
1828.1  
1712.7  
1646.2  
1619.6  
1619.6  
1619.6  
1619.6  
1624.0  
1663.9  
*1814.8*  
1921.3  
1868.0  
1681.7  
1482.0  
1277.9  
1020.5  
772.1  
492.5  
204.1  
0.0

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