

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: P477443

Luminaire Tested: **IFLD-L-SA7D-750-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477443  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-750-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

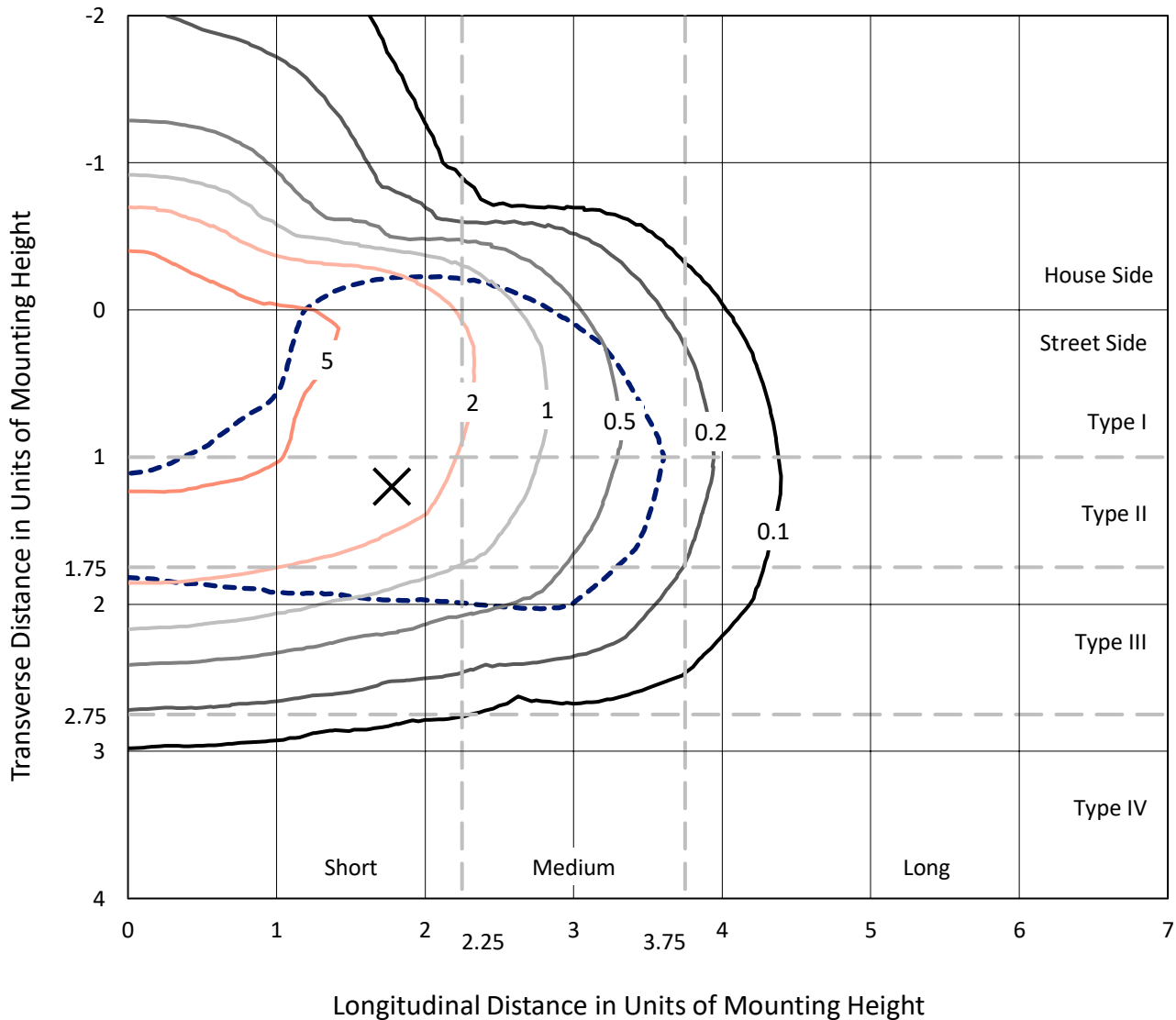
Lumens per Lamp: N/A  
Luminaire Lumens: 50820.2 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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

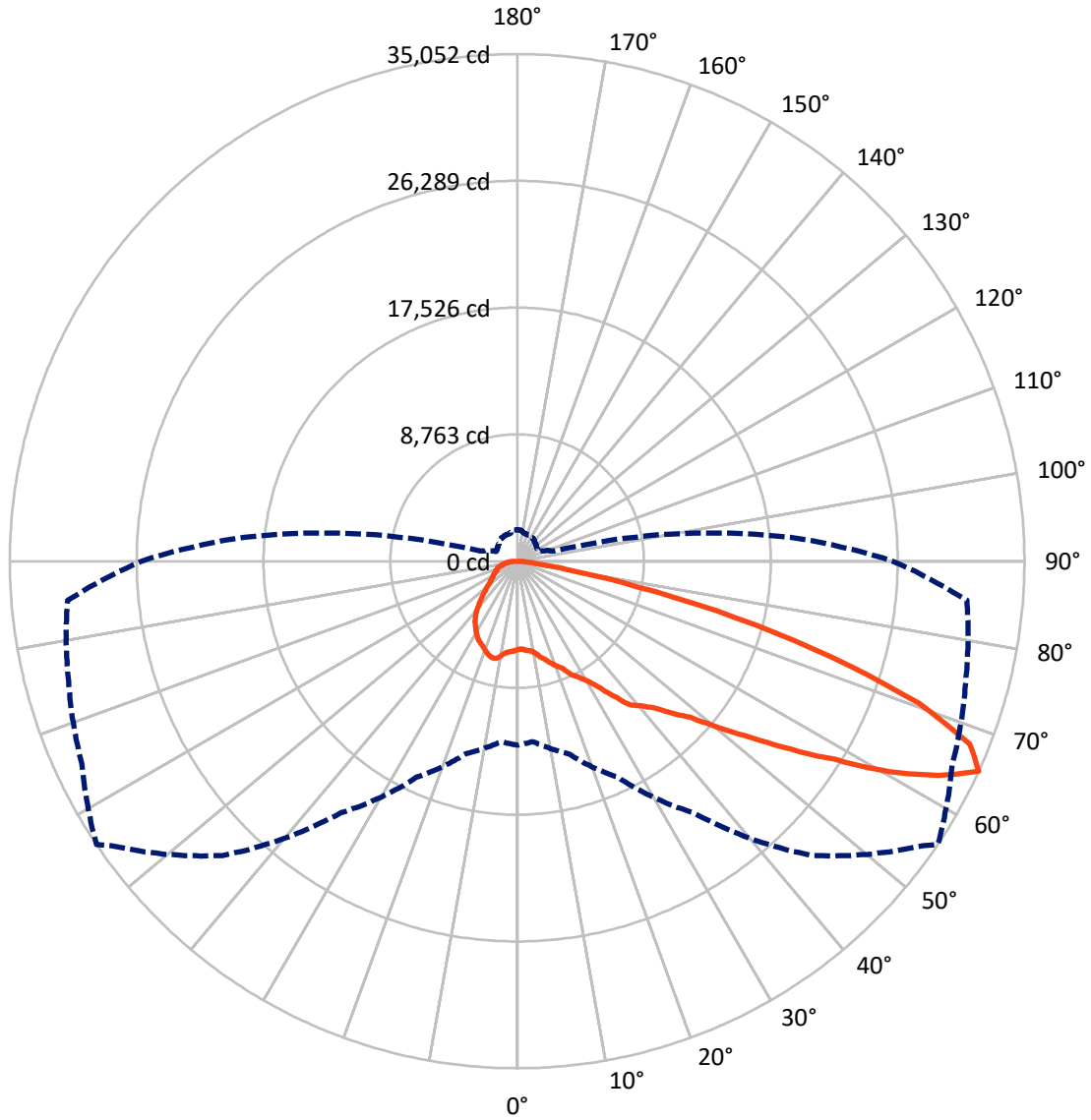
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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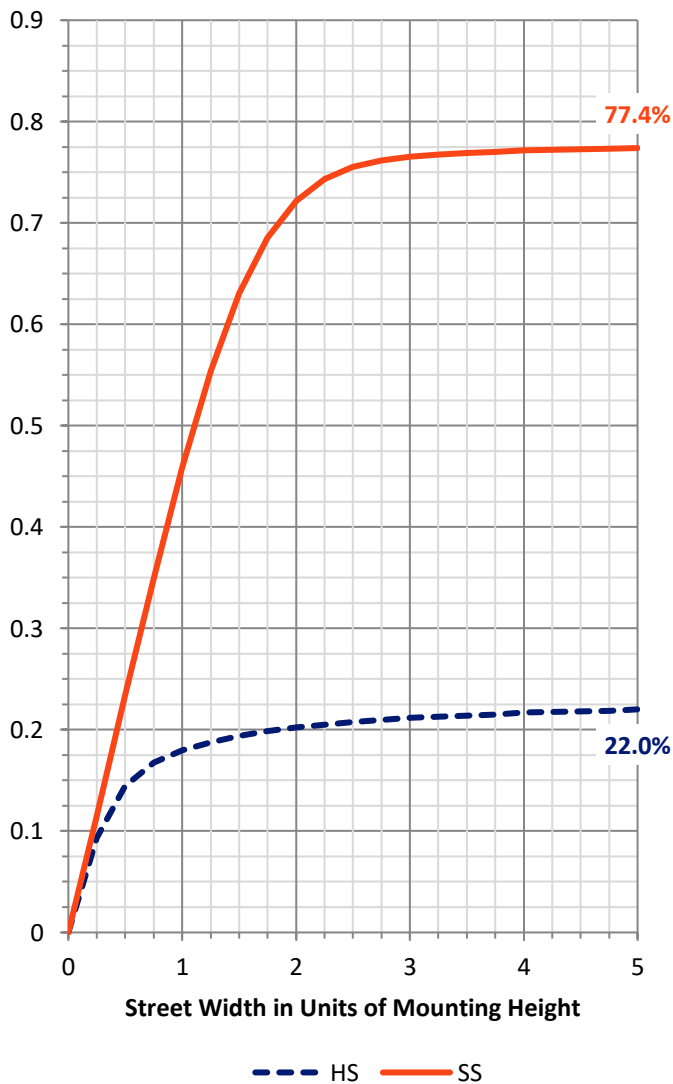
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11397.3	0.0	11397.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	39422.9	0.0	39422.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	50820.2	0.0	50820.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.5	1.2
10°-20°	1962.8	3.9
20°-30°	3494.9	6.9
30°-40°	5233.5	10.3
40°-50°	7754.1	15.3
50°-60°	11948.0	23.5
60°-70°	13526.6	26.6
70°-80°	5613.7	11.0
80°-90°	682.0	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°	50820.2	100.0
0°-180°	50820.2	100.0

**Coefficient of Utilization**



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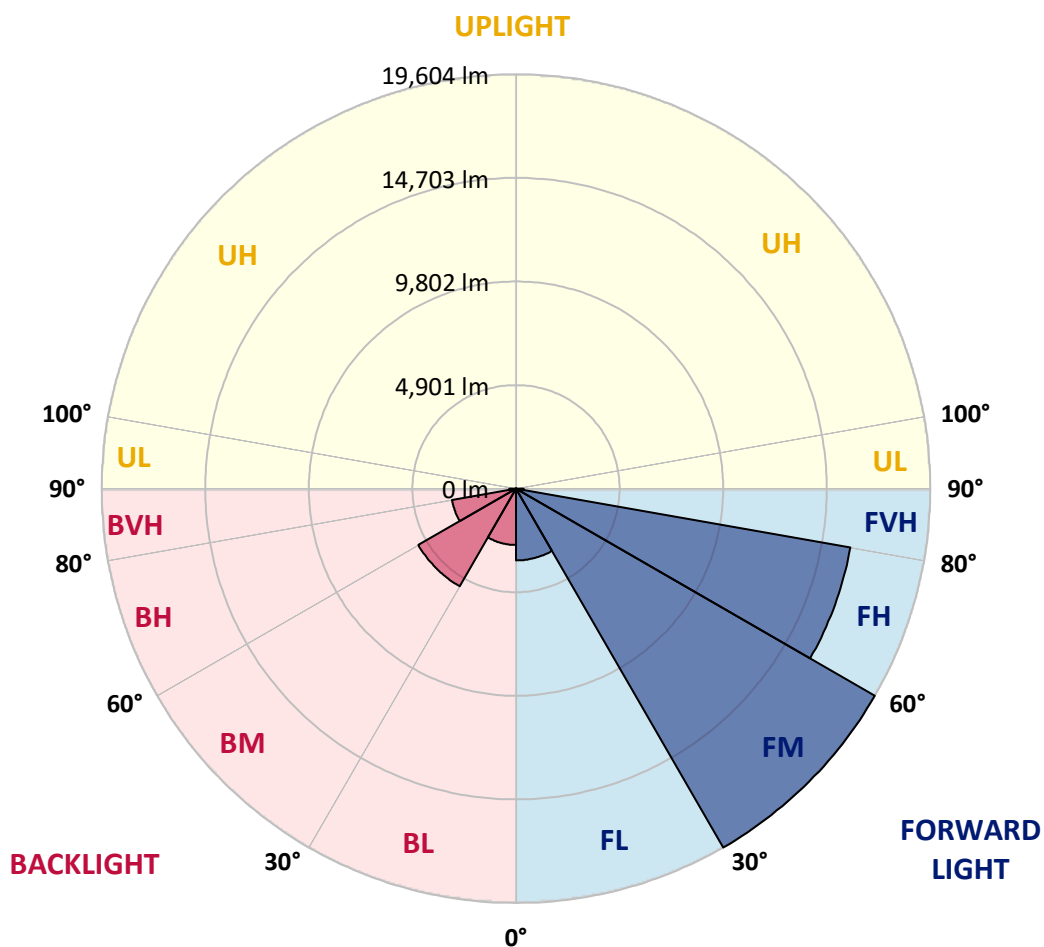
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3396.3	6.7			
FM (30°-60°)	19604.2	38.6			
FH (60°-80°)	16062.7	31.6			G5
FVH (80°-90°)	359.7	0.7			G3/500
BL (0°-30°)	2665.9	5.2	B4/5000		
BM (30°-60°)	5331.5	10.5	B4/8500		
BH (60°-80°)	3077.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	322.3	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°	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9
2.5°	5940.3	5972.2	5951.0	6014.8	6068.0	6068.0	6110.5	6078.6	6121.1	6179.6
5°	6137.1	6009.5	6078.6	6110.5	6094.6	6121.1	6078.6	6185.0	6115.8	6227.5
7.5°	6185.0	6232.8	6291.3	6238.1	6286.0	6259.4	6264.7	6248.8	6211.6	6302.0
10°	6536.0	6466.8	6599.8	6520.0	6509.4	6498.7	6477.5	6397.7	6488.1	6493.4
12.5°	6940.1	6876.3	6871.0	6807.2	6892.3	6738.0	6770.0	6727.4	6743.4	6764.6
15°	7232.6	7206.0	7328.4	7253.9	7142.2	7073.1	7147.5	7030.5	7089.0	7078.4
17.5°	7812.3	7807.0	7716.6	7594.3	7530.4	7429.4	7413.4	7365.6	7408.1	7386.9
20°	8216.5	8275.0	8290.9	8147.3	7902.7	7791.0	7764.4	7727.2	7775.1	7759.1
22.5°	8833.4	8743.0	8812.1	8562.2	8471.8	8205.8	8110.1	8056.9	8285.6	8227.1
25°	9226.9	9322.7	9253.5	9168.4	8966.3	8636.6	8567.5	8684.5	8774.9	8711.1
27.5°	10115.1	10019.3	9955.5	9700.2	9567.3	9221.6	9141.8	9099.3	9120.6	9157.8
30°	10790.5	10843.6	10700.0	10519.2	10184.2	9833.2	9647.1	9609.8	9535.4	9471.6
32.5°	11753.0	11673.3	11588.2	11471.2	11184.0	10721.3	10540.5	10402.2	10178.9	9881.1
35°	12215.7	12444.4	12380.6	12066.8	11848.8	11673.3	11620.1	11407.4	11221.2	10753.2
37.5°	12986.8	13082.6	12992.1	12891.1	12790.1	12603.9	12540.1	12598.6	12231.7	11460.5
40°	13486.7	13688.8	13875.0	13593.1	13571.8	13609.1	13215.5	13146.4	12391.2	11987.0
42.5°	14507.8	14592.9	14630.1	14619.5	14741.8	14741.8	13992.0	13843.0	13305.9	12976.2
45°	15858.6	15927.7	16060.7	16156.4	16018.2	16087.3	15018.3	14959.9	14481.2	14417.4
47.5°	17028.6	17193.5	17491.3	17773.1	17953.9	17720.0	16550.0	16135.2	16012.8	16395.7
50°	18049.7	17852.9	18549.6	18836.8	19629.2	20017.4	18241.1	18076.3	17879.5	18613.4
52.5°	18150.7	18416.6	19400.5	19974.8	21607.5	22325.4	20315.2	20246.1	20006.7	20852.3
55°	18874.0	18842.1	19831.2	21075.7	23016.8	24224.0	23016.8	22974.2	22453.1	23256.1
57.5°	18751.7	19076.1	19857.8	21596.9	24287.8	26260.8	26149.2	25856.7	25128.1	25782.2
60°	18336.9	18421.9	19373.9	21580.9	25027.0	28350.9	29531.5	29590.0	28100.9	28622.1
62.5°	15986.2	16183.0	17390.2	19884.4	24500.5	29792.1	32834.0	32626.6	31435.4	30839.7
65°	12715.6	12518.8	13773.9	16470.2	21224.6	28771.0	34280.6	35051.7	33179.7	32089.5
67.5°	7796.4	7748.5	8955.7	11332.9	15879.9	24484.6	33126.5	33727.5	32695.8	31823.6
70°	4015.2	3892.9	4648.0	6323.2	9982.1	17964.6	28829.5	29419.8	30403.6	28542.3
72.5°	1872.0	1845.4	2249.6	3111.1	5084.1	10561.8	22325.4	22750.9	24824.9	24064.5
75°	1100.8	1116.8	1345.5	1627.3	2478.2	4977.8	14816.3	15640.6	17890.1	17342.4
77.5°	824.3	824.3	957.3	1132.8	1446.5	1925.2	7312.4	8402.6	10460.7	9407.7
80°	606.3	616.9	733.9	850.9	1005.1	994.5	2903.7	3403.6	4796.9	4100.3
82.5°	473.3	489.3	569.0	632.9	707.3	600.9	1191.3	1281.7	1973.0	1568.8
85°	329.7	340.4	446.7	430.8	430.8	335.0	494.6	521.2	781.8	744.5
87.5°	79.8	90.4	218.0	239.3	180.8	101.0	154.2	175.5	281.9	324.4
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6099.9	0°	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9	6099.9
6206.2	2.5°	6126.5	6147.7	6238.1	6190.3	6216.9	6105.2	6195.6	6121.1	6185.0	6153.1
6254.1	5°	6296.6	6248.8	6302.0	6264.7	6264.7	6307.3	6371.1	6323.2	6419.0	6376.4
6291.3	7.5°	6365.8	6371.1	6403.0	6408.3	6381.7	6514.7	6520.0	6504.1	6594.5	6573.2
6546.6	10°	6536.0	6541.3	6599.8	6631.7	6605.1	6653.0	6599.8	6557.2	6551.9	6530.6
6748.7	12.5°	6807.2	6860.4	6849.7	6876.3	6881.6	6679.5	6557.2	6349.8	6323.2	6349.8
7046.5	15°	7057.1	7035.9	7046.5	7099.7	6876.3	6551.9	6333.9	6158.4	6169.0	6174.3
7434.7	17.5°	7354.9	7370.9	7386.9	7142.2	6732.7	6349.8	6158.4	6158.4	6105.2	6126.5
7705.9	20°	7695.3	7631.5	7493.2	7147.5	6482.8	6115.8	6057.3	6057.3	5993.5	5951.0
7998.4	22.5°	7961.2	7833.6	7626.2	6982.7	6259.4	6025.4	5881.8	5780.8	5706.3	5621.2
8322.8	25°	8131.4	8062.3	7658.1	6812.5	6094.6	5786.1	5573.4	5419.2	5323.4	5211.8
8578.1	27.5°	8392.0	8259.0	7748.5	6615.7	5913.7	5546.8	5217.1	4977.8	4796.9	4679.9
8966.3	30°	8743.0	8551.5	7684.7	6333.9	5637.2	5132.0	4743.8	4435.3	4227.9	4132.2
9333.3	32.5°	9030.2	8780.2	7631.5	6078.6	5328.7	4711.8	4196.0	3882.2	3765.2	3642.9
9950.2	35°	9577.9	9083.3	7594.3	5935.0	5052.2	4291.7	3749.3	3478.0	3329.1	3148.3
10317.1	37.5°	9998.1	9609.8	7503.9	5637.2	4695.9	3882.2	3408.9	3164.3	2940.9	2749.5
11168.0	40°	10657.5	10343.7	7509.2	5217.1	4275.8	3531.2	3143.0	2887.7	2605.9	2441.0
12428.4	42.5°	11896.6	11067.0	7541.1	4882.0	3802.5	3244.0	2903.7	2600.6	2318.7	2180.4
13864.3	45°	13417.6	12061.5	7344.3	4578.9	3318.5	2972.8	2616.5	2313.4	2132.6	2031.5
15816.1	47.5°	15167.3	13034.7	7078.4	4009.9	2914.3	2685.6	2350.6	2175.1	2042.2	1983.7
18331.5	50°	17124.3	14428.0	7004.0	3488.7	2600.6	2441.0	2223.0	2090.0	1999.6	1930.5
21166.1	52.5°	19645.1	16050.1	6855.0	2951.6	2329.3	2244.2	2175.1	2084.7	2004.9	1946.4
23809.2	55°	22054.2	17847.6	6695.5	2510.1	2137.9	2148.5	2185.7	2106.0	2036.8	1946.4
26771.4	57.5°	24766.5	19682.3	6105.2	2185.7	1994.3	2100.7	2175.1	2084.7	2015.6	1946.4
29802.7	60°	26441.7	20714.0	4951.2	1903.9	1866.7	2010.2	2111.3	2015.6	1941.1	1967.7
31196.0	62.5°	27122.4	20171.6	3733.3	1728.4	1776.2	1887.9	2010.2	1973.0	1919.8	2020.9
31180.1	65°	25963.0	18921.8	2669.7	1579.5	1653.9	1765.6	1919.8	1962.4	1978.3	2175.1
28638.0	67.5°	23101.9	16475.5	1962.4	1457.2	1526.3	1691.2	1983.7	2052.8	2042.2	2286.8
24032.6	70°	18485.8	12885.8	1531.6	1356.1	1478.4	1749.7	2074.1	2074.1	1999.6	2286.8
18331.5	72.5°	13449.5	9083.3	1318.9	1239.1	1356.1	1606.1	2063.4	2058.1	1962.4	2090.0
11673.3	75°	8142.0	5286.2	1164.7	1122.1	1164.7	1377.4	1973.0	1941.1	1808.2	1797.5
5615.9	77.5°	4057.7	2659.1	951.9	994.5	1015.8	1154.0	1733.7	1781.6	1600.8	1558.2
2217.7	80°	1712.4	1159.3	792.4	856.2	856.2	973.2	1441.2	1473.1	1329.5	1249.8
877.5	82.5°	781.8	664.8	675.4	744.5	696.7	755.2	1143.4	1180.6	1079.6	946.6
372.3	85°	329.7	377.6	515.9	585.0	515.9	489.3	787.1	829.6	702.0	585.0
159.5	87.5°	148.9	207.4	324.4	425.4	260.6	228.7	420.1	436.1	351.0	260.6
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°  
6099.9  
6094.6  
6317.9  
6541.3  
6530.6  
6360.5  
6248.8  
6131.8  
5887.2  
5573.4  
5233.0  
4733.1  
4185.4  
3637.6  
3132.4  
2754.8  
2457.0  
2191.1  
2052.8  
1973.0  
1941.1  
1941.1  
1941.1  
1941.1  
1946.4  
1994.3  
**2175.1**  
2302.7  
2238.9  
2015.6  
1776.2  
1531.6  
1223.2  
925.4  
590.3  
244.6  
0.0

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