

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: P477239

Luminaire Tested: **IFLD-S-SA6E-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

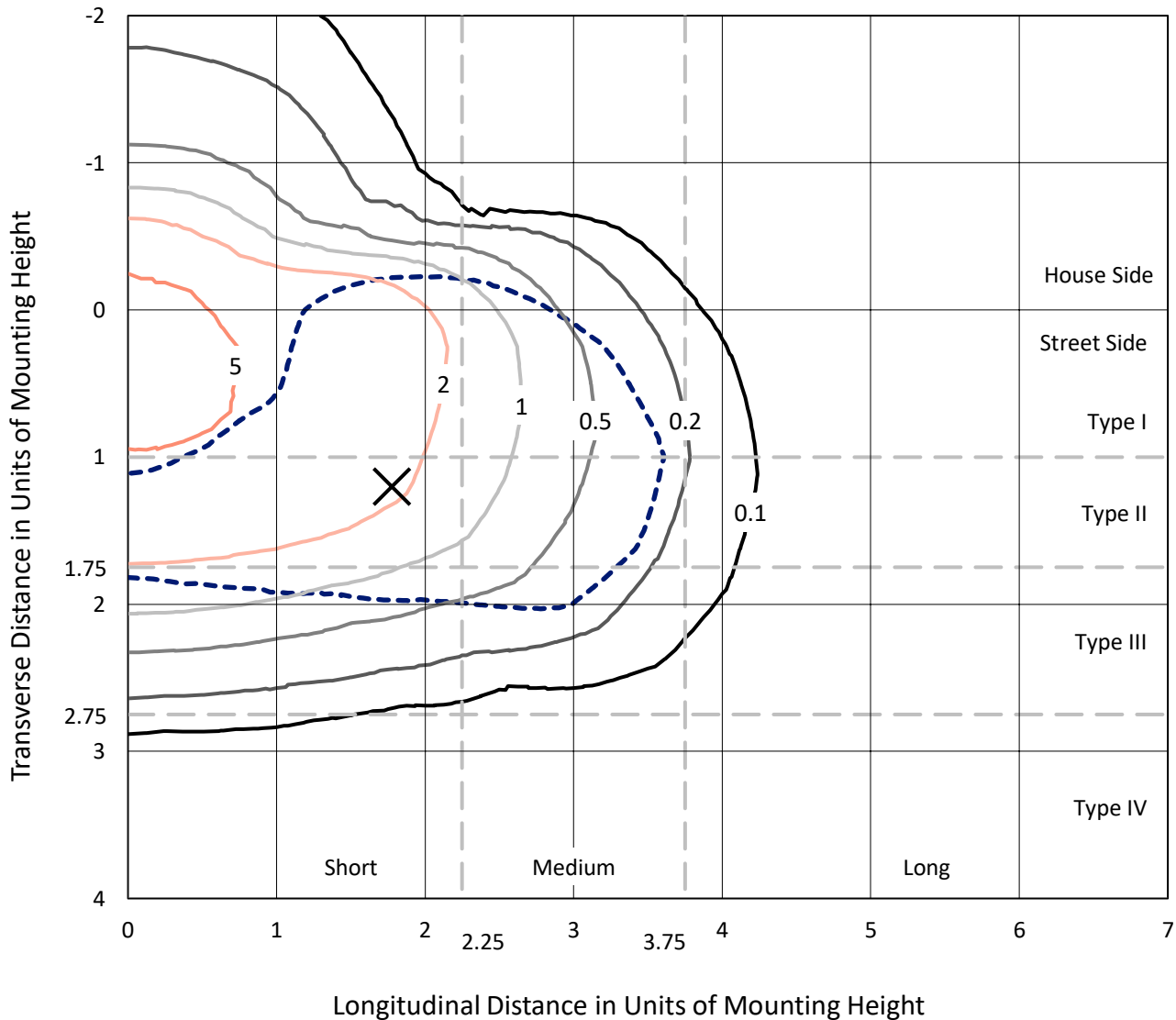
Lumens per Lamp: N/A
Luminaire Lumens: 39697.5 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (A_{in}): 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

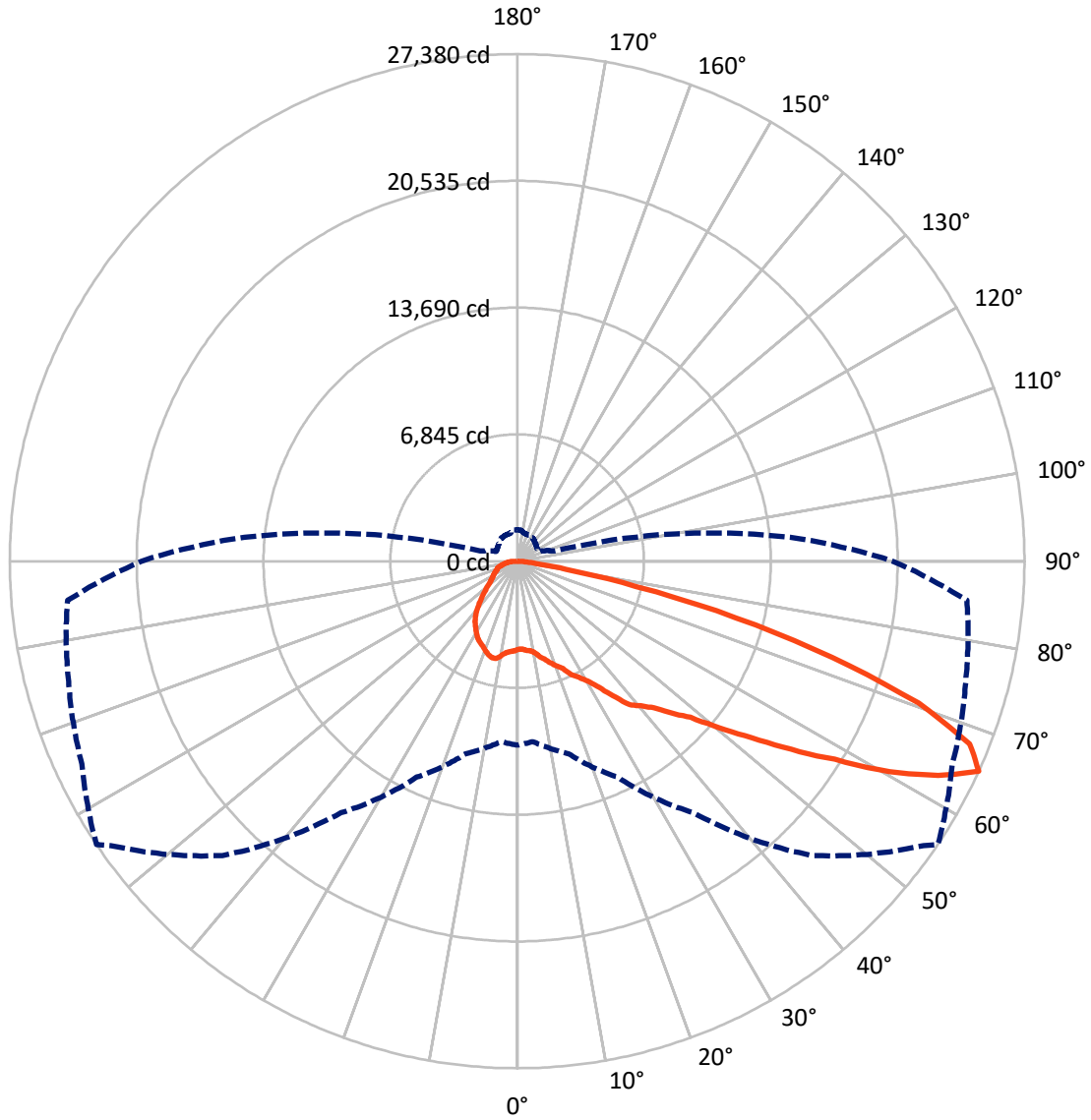
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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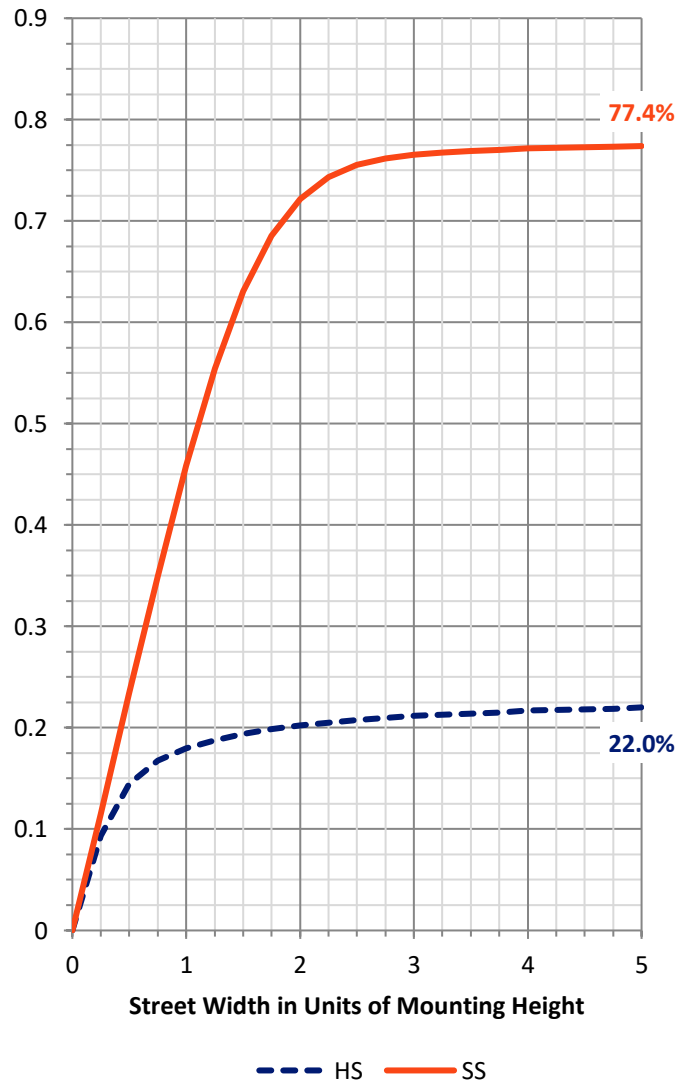
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8902.9	0.0	8902.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	30794.7	0.0	30794.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	39697.5	0.0	39697.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.2
10°-20°	1533.2	3.9
20°-30°	2730.0	6.9
30°-40°	4088.1	10.3
40°-50°	6057.0	15.3
50°-60°	9333.0	23.5
60°-70°	10566.2	26.6
70°-80°	4385.1	11.0
80°-90°	532.7	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°	39697.5	100.0
0°-180°	39697.5	100.0

Coefficient of Utilization

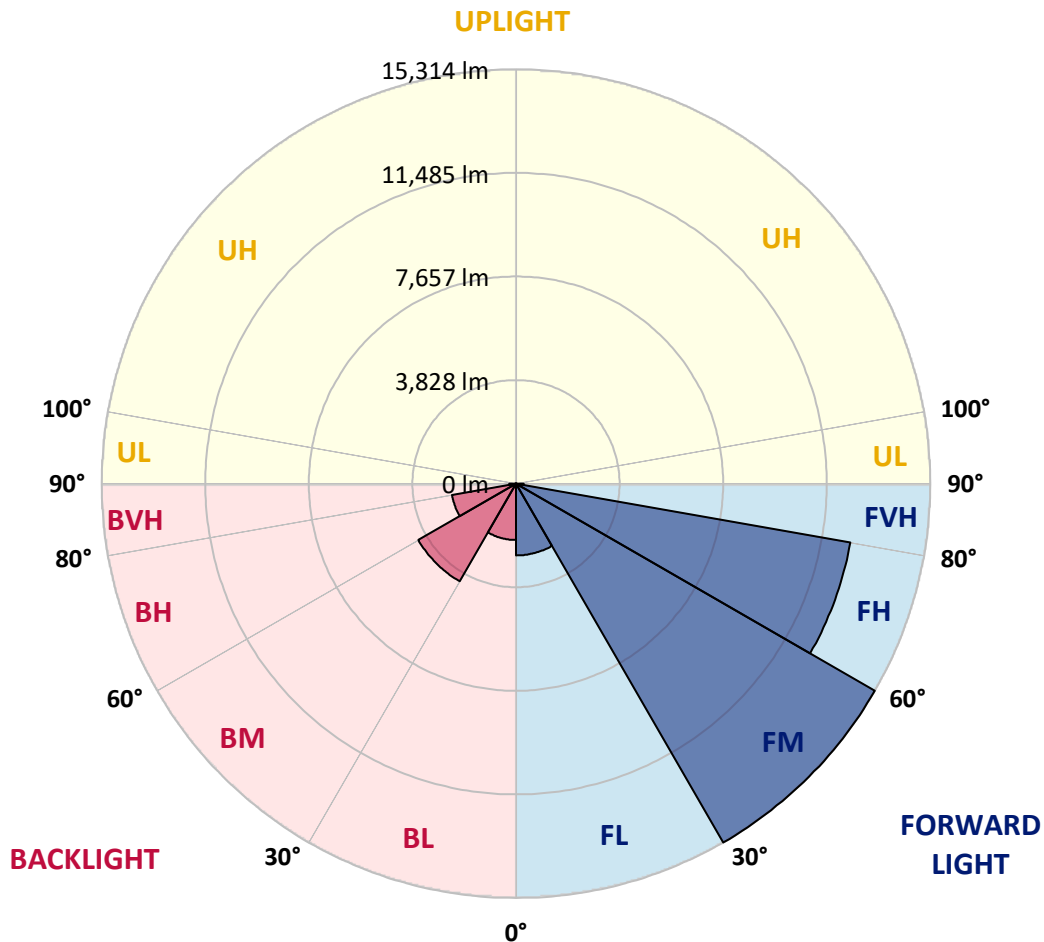


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.0	6.7			
FM (30°-60°)	15313.6	38.6			
FH (60°-80°)	12547.1	31.6			G5
FVH (80°-90°)	281.0	0.7			G3/500
BL (0°-30°)	2082.5	5.2	B3/2500		
BM (30°-60°)	4164.6	10.5	B3/5000		
BH (60°-80°)	2404.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	251.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8
2.5°	4640.2	4665.1	4648.5	4698.4	4739.9	4739.9	4773.1	4748.2	4781.5	4827.2
5°	4793.9	4694.2	4748.2	4773.1	4760.7	4781.5	4748.2	4831.3	4777.3	4864.5
7.5°	4831.3	4868.7	4914.4	4872.8	4910.2	4889.5	4893.6	4881.2	4852.1	4922.7
10°	5105.5	5051.5	5155.3	5093.0	5084.7	5076.4	5059.8	4997.5	5068.1	5072.2
12.5°	5421.2	5371.3	5367.2	5317.3	5383.8	5263.3	5288.3	5255.0	5267.5	5284.1
15°	5649.7	5628.9	5724.5	5666.3	5579.1	5525.1	5583.2	5491.8	5537.5	5529.2
17.5°	6102.5	6098.3	6027.7	5932.2	5882.3	5803.4	5790.9	5753.5	5786.8	5770.1
20°	6418.2	6463.9	6476.4	6364.2	6173.1	6085.9	6065.1	6036.0	6073.4	6060.9
22.5°	6900.1	6829.5	6883.5	6688.2	6617.6	6409.9	6335.1	6293.6	6472.2	6426.5
25°	7207.5	7282.3	7228.3	7161.8	7003.9	6746.4	6692.4	6783.8	6854.4	6804.5
27.5°	7901.2	7826.5	7776.6	7577.2	7473.4	7203.3	7141.0	7107.8	7124.4	7153.5
30°	8428.8	8470.4	8358.2	8217.0	7955.2	7681.1	7535.7	7506.6	7448.4	7398.6
32.5°	9180.7	9118.4	9051.9	8960.6	8736.2	8374.8	8233.6	8125.6	7951.1	7718.5
35°	9542.1	9720.8	9670.9	9425.8	9255.5	9118.4	9076.9	8910.7	8765.3	8399.7
37.5°	10144.5	10219.3	10148.6	10069.7	9990.8	9845.4	9795.5	9841.2	9554.6	8952.2
40°	10535.0	10692.8	10838.2	10618.1	10601.5	10630.5	10323.1	10269.1	9679.2	9363.5
42.5°	11332.6	11399.1	11428.1	11419.8	11515.4	11515.4	10929.6	10813.3	10393.7	10136.2
45°	12387.7	12441.8	12545.6	12620.4	12512.4	12566.4	11731.4	11685.7	11311.8	11262.0
47.5°	13301.7	13430.4	13663.1	13883.3	14024.5	13841.7	12927.8	12603.8	12508.2	12807.3
50°	14099.3	13945.6	14489.8	14714.1	15333.1	15636.3	14248.8	14120.0	13966.3	14539.6
52.5°	14178.2	14385.9	15154.4	15603.1	16878.4	17439.2	15868.9	15814.9	15628.0	16288.5
55°	14743.2	14718.2	15490.9	16463.0	17979.3	18922.3	17979.3	17946.0	17538.9	18166.2
57.5°	14647.6	14901.0	15511.7	16870.1	18972.1	20513.3	20426.1	20197.6	19628.5	20139.4
60°	14323.6	14390.1	15133.7	16857.6	19549.5	22145.9	23068.1	23113.8	21950.7	22357.8
62.5°	12487.4	12641.2	13584.1	15532.5	19138.3	23271.7	25647.9	25485.9	24555.3	24090.1
65°	9932.6	9778.9	10759.3	12865.5	16579.3	22474.1	26777.8	27380.2	25917.9	25066.3
67.5°	6090.0	6052.6	6995.6	8852.5	12404.4	19125.8	25876.4	26345.8	25539.9	24858.6
70°	3136.4	3040.9	3630.7	4939.3	7797.4	14032.8	22519.8	22980.9	23749.4	22295.5
72.5°	1462.3	1441.5	1757.2	2430.2	3971.4	8250.2	17439.2	17771.6	19391.7	18797.6
75°	859.9	872.4	1051.0	1271.2	1935.8	3888.3	11573.5	12217.4	13974.6	13546.8
77.5°	643.9	643.9	747.8	884.8	1129.9	1503.8	5712.0	6563.6	8171.3	7348.7
80°	473.6	481.9	573.3	664.7	785.1	776.8	2268.2	2658.7	3747.1	3202.9
82.5°	369.7	382.2	444.5	494.3	552.5	469.4	930.5	1001.2	1541.2	1225.5
85°	257.6	265.9	349.0	336.5	336.5	261.7	386.3	407.1	610.7	581.6
87.5°	62.3	70.6	170.3	186.9	141.2	78.9	120.5	137.1	220.2	253.4
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°
4764.8	0°	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8
4847.9	2.5°	4785.6	4802.2	4872.8	4835.5	4856.2	4769.0	4839.6	4781.5	4831.3	4806.4
4885.3	5°	4918.5	4881.2	4922.7	4893.6	4893.6	4926.9	4976.7	4939.3	5014.1	4980.9
4914.4	7.5°	4972.5	4976.7	5001.6	5005.8	4985.0	5088.9	5093.0	5080.6	5151.2	5134.6
5113.8	10°	5105.5	5109.6	5155.3	5180.3	5159.5	5196.9	5155.3	5122.1	5117.9	5101.3
5271.6	12.5°	5317.3	5358.9	5350.6	5371.3	5375.5	5217.6	5122.1	4960.1	4939.3	4960.1
5504.3	15°	5512.6	5496.0	5504.3	5545.8	5371.3	5117.9	4947.6	4810.5	4818.8	4823.0
5807.5	17.5°	5745.2	5757.7	5770.1	5579.1	5259.2	4960.1	4810.5	4810.5	4769.0	4785.6
6019.4	20°	6011.1	5961.2	5853.2	5583.2	5063.9	4777.3	4731.6	4731.6	4681.8	4648.5
6247.9	22.5°	6218.8	6119.1	5957.1	5454.4	4889.5	4706.7	4594.5	4515.6	4457.4	4391.0
6501.3	25°	6351.7	6297.7	5982.0	5321.5	4760.7	4519.7	4353.6	4233.1	4158.3	4071.1
6700.7	27.5°	6555.3	6451.4	6052.6	5167.8	4619.4	4332.8	4075.2	3888.3	3747.1	3655.7
7003.9	30°	6829.5	6679.9	6002.8	4947.6	4403.4	4008.8	3705.5	3464.6	3302.6	3227.8
7290.6	32.5°	7053.8	6858.5	5961.2	4748.2	4162.5	3680.6	3277.6	3032.5	2941.2	2845.6
7772.5	35°	7481.7	7095.3	5932.2	4636.1	3946.5	3352.4	2928.7	2716.8	2600.5	2459.3
8059.1	37.5°	7809.8	7506.6	5861.5	4403.4	3668.1	3032.5	2662.8	2471.7	2297.3	2147.7
8723.8	40°	8325.0	8079.9	5865.7	4075.2	3340.0	2758.4	2455.1	2255.7	2035.5	1906.8
9708.3	42.5°	9292.9	8644.8	5890.6	3813.5	2970.2	2534.0	2268.2	2031.4	1811.2	1703.2
10829.9	45°	10481.0	9421.7	5736.9	3576.7	2592.2	2322.2	2043.9	1807.1	1665.8	1586.9
12354.5	47.5°	11847.7	10181.9	5529.2	3132.2	2276.5	2097.9	1836.1	1699.1	1595.2	1549.5
14319.4	50°	13376.4	11270.3	5471.0	2725.1	2031.4	1906.8	1736.4	1632.6	1562.0	1508.0
16533.6	52.5°	15345.5	12537.3	5354.7	2305.6	1819.5	1753.1	1699.1	1628.4	1566.1	1520.4
18598.2	55°	17227.4	13941.4	5230.1	1960.8	1670.0	1678.3	1707.4	1645.1	1591.0	1520.4
20912.1	57.5°	19346.0	15374.6	4769.0	1707.4	1557.8	1640.9	1699.1	1628.4	1574.4	1520.4
23280.0	60°	20654.6	16180.5	3867.5	1487.2	1458.1	1570.3	1649.2	1574.4	1516.3	1537.0
24368.4	62.5°	21186.3	15756.8	2916.2	1350.1	1387.5	1474.7	1570.3	1541.2	1499.7	1578.6
24355.9	65°	20280.7	14780.6	2085.4	1233.8	1291.9	1379.2	1499.7	1532.9	1545.4	1699.1
22370.2	67.5°	18045.7	12869.6	1532.9	1138.2	1192.2	1321.0	1549.5	1603.5	1595.2	1786.3
18772.7	70°	14439.9	10065.6	1196.4	1059.3	1154.9	1366.7	1620.1	1620.1	1562.0	1786.3
14319.4	72.5°	10505.9	7095.3	1030.2	967.9	1059.3	1254.6	1611.8	1607.7	1532.9	1632.6
9118.4	75°	6360.0	4129.2	909.8	876.5	909.8	1075.9	1541.2	1516.3	1412.4	1404.1
4386.8	77.5°	3169.6	2077.1	743.6	776.8	793.4	901.5	1354.3	1391.6	1250.4	1217.2
1732.3	80°	1337.6	905.6	619.0	668.8	668.8	760.2	1125.8	1150.7	1038.5	976.2
685.4	82.5°	610.7	519.3	527.6	581.6	544.2	589.9	893.1	922.2	843.3	739.4
290.8	85°	257.6	294.9	403.0	457.0	403.0	382.2	614.8	648.1	548.4	457.0
124.6	87.5°	116.3	162.0	253.4	332.3	203.6	178.6	328.2	340.6	274.2	203.6
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°
4764.8
4760.7
4935.2
5109.6
5101.3
4968.4
4881.2
4789.8
4598.7
4353.6
4087.7
3697.2
3269.3
2841.5
2446.8
2151.9
1919.2
1711.5
1603.5
1541.2
1516.3
1516.3
1516.3
1516.3
1520.4
1557.8
1699.1
1798.8
1748.9
1574.4
1387.5
1196.4
955.5
722.8
461.1
191.1
0.0

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