

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: P477433

Luminaire Tested: **IFLD-S-SA6D-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477433
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

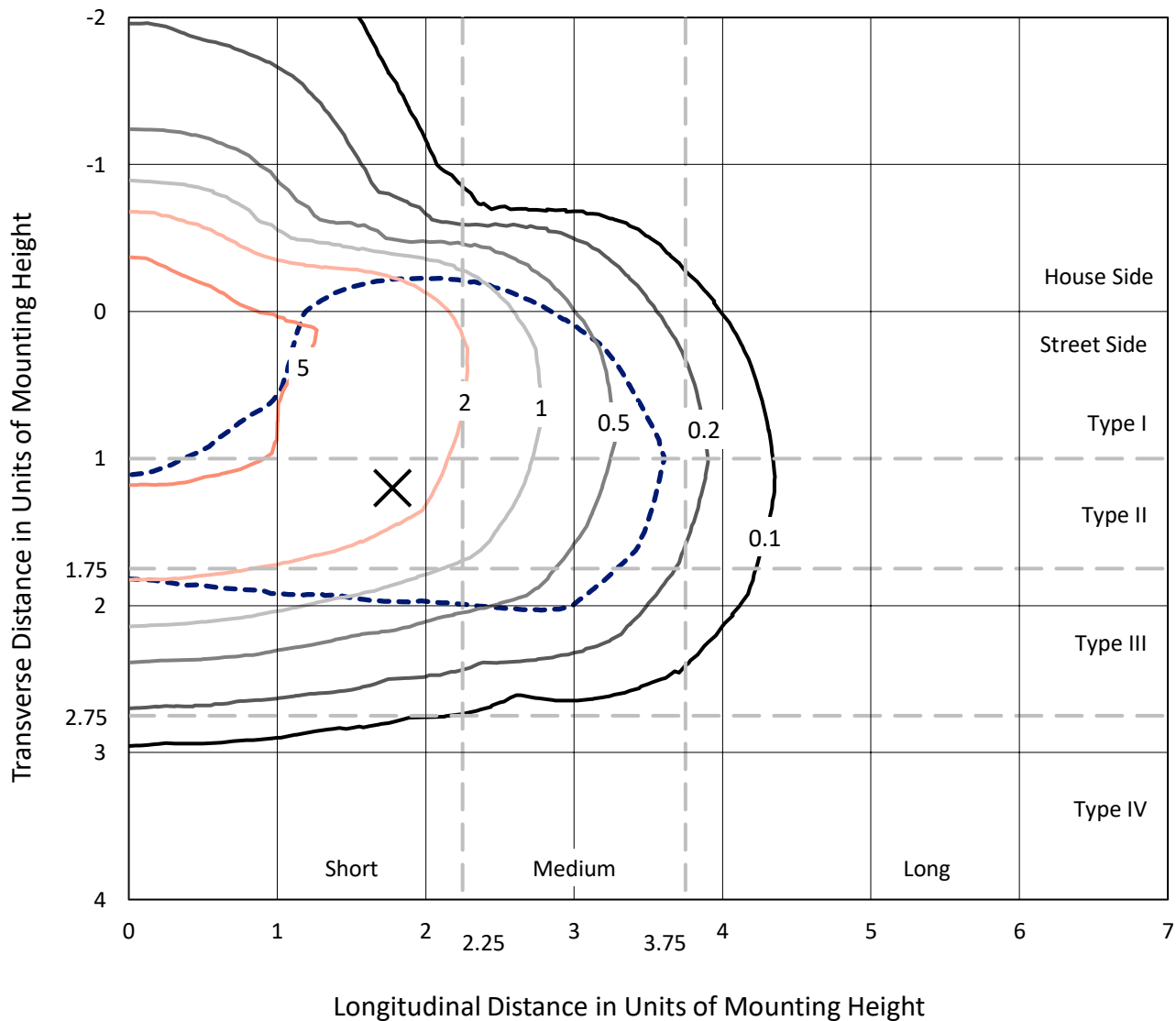
Lumens per Lamp: N/A
Luminaire Lumens: 47635.1 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

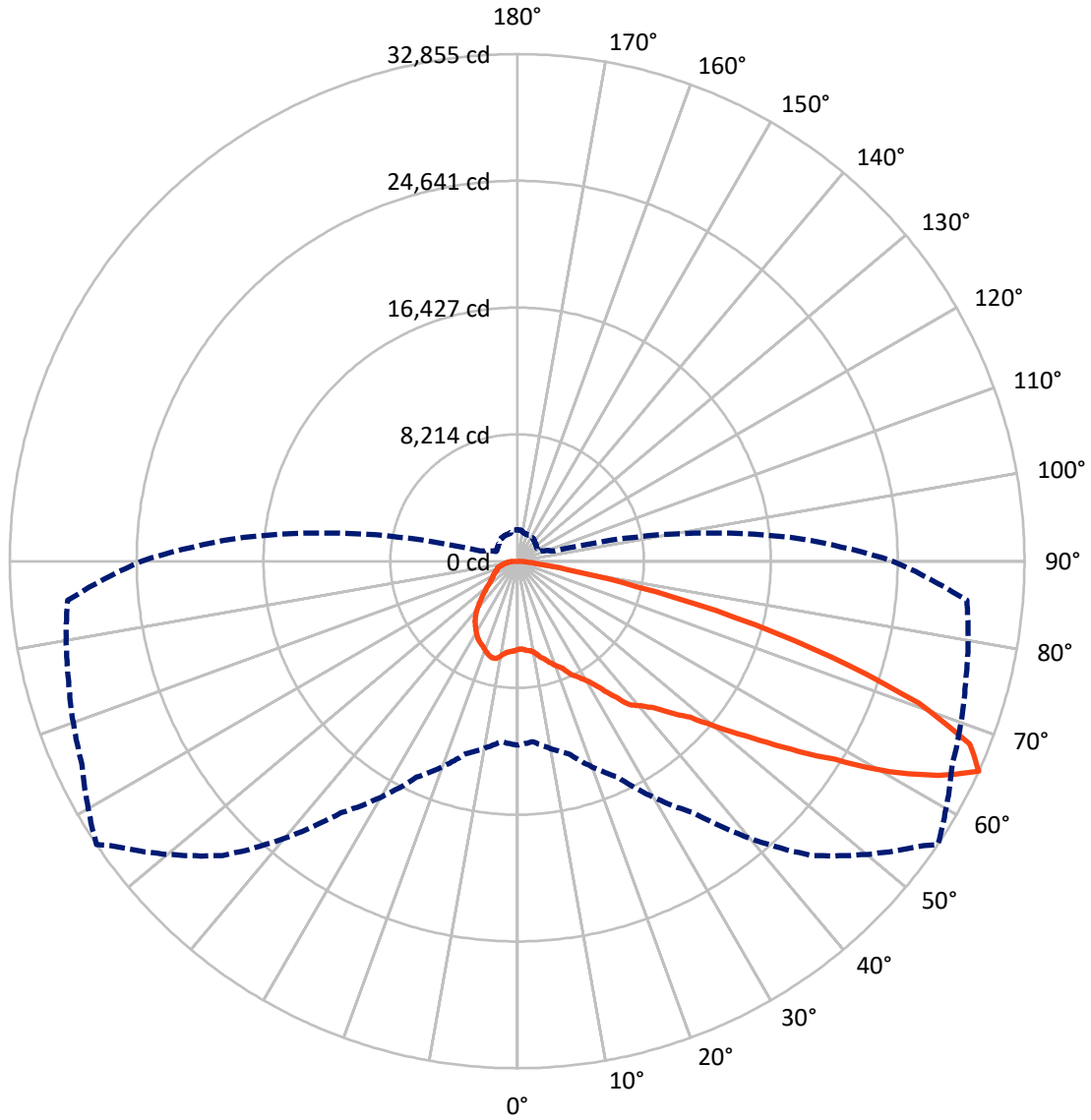
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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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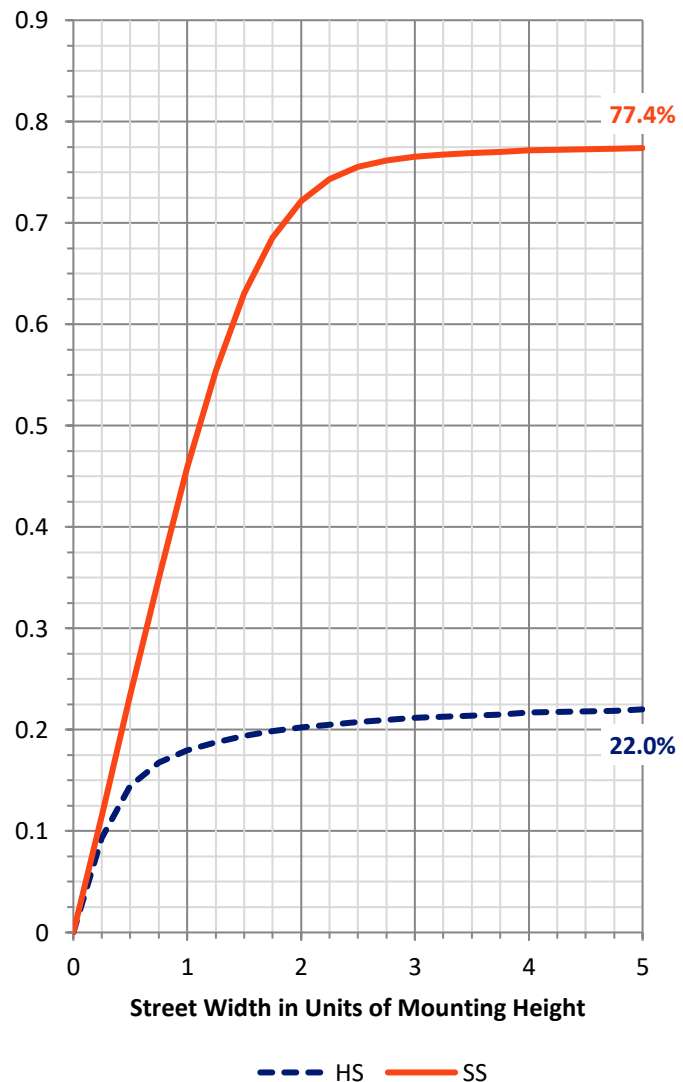
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10683.0	0.0	10683.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	36952.0	0.0	36952.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	47635.1	0.0	47635.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.6	1.2
10°-20°	1839.8	3.9
20°-30°	3275.9	6.9
30°-40°	4905.5	10.3
40°-50°	7268.1	15.3
50°-60°	11199.2	23.5
60°-70°	12678.9	26.6
70°-80°	5261.9	11.0
80°-90°	639.3	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°	47635.1	100.0
0°-180°	47635.1	100.0

Coefficient of Utilization

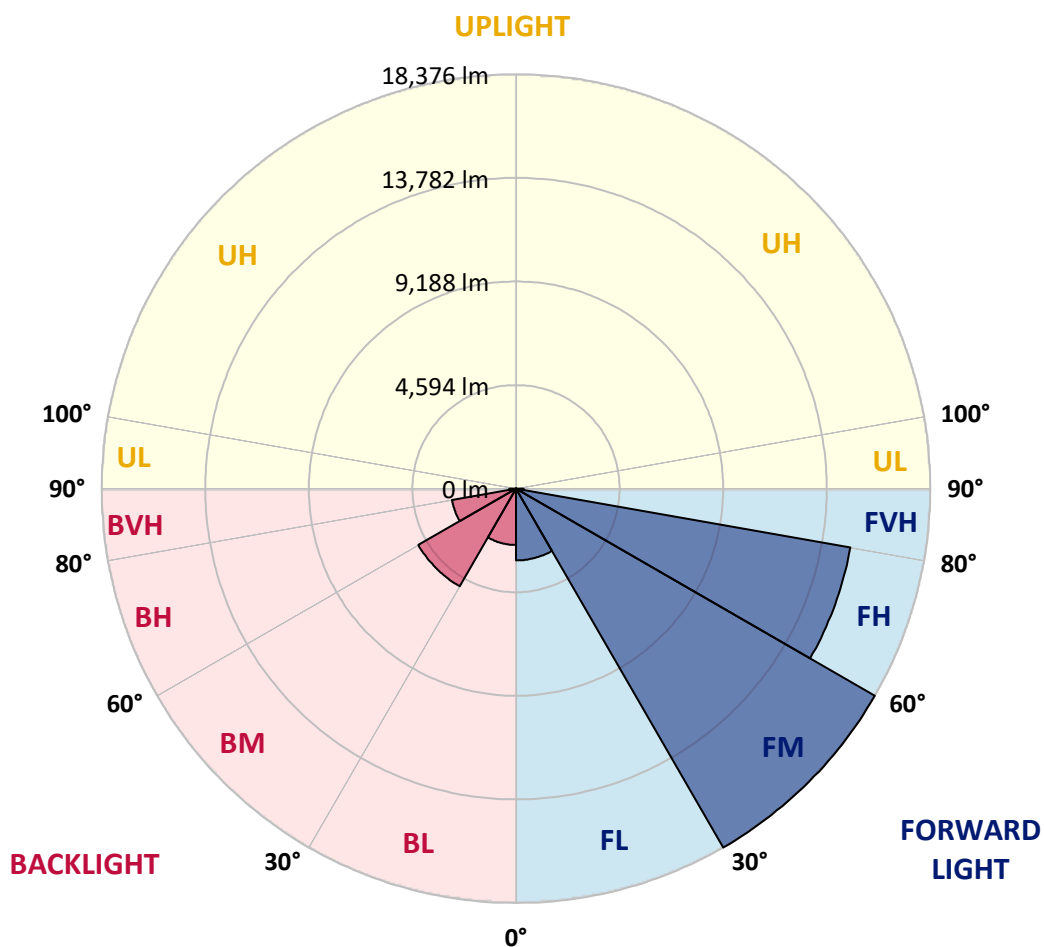


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.4	6.7			
FM (30°-60°)	18375.5	38.6			
FH (60°-80°)	15055.9	31.6			G5
FVH (80°-90°)	337.2	0.7			G3/500
BL (0°-30°)	2498.9	5.2	B3/2500		
BM (30°-60°)	4997.3	10.5	B3/5000		
BH (60°-80°)	2884.8	6.1	B4/5000		G4/5000
BVH (80°-90°)	302.1	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°	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6
2.5°	5568.0	5597.9	5578.0	5637.8	5687.7	5687.7	5727.5	5697.6	5737.5	5792.3
5°	5752.5	5632.8	5697.6	5727.5	5712.6	5737.5	5697.6	5797.3	5732.5	5837.2
7.5°	5797.3	5842.2	5897.0	5847.2	5892.0	5867.1	5872.1	5857.1	5822.2	5907.0
10°	6126.3	6061.5	6186.1	6111.4	6101.4	6091.4	6071.5	5996.7	6081.5	6086.4
12.5°	6505.2	6445.3	6440.4	6380.5	6460.3	6315.7	6345.6	6305.8	6320.7	6340.7
15°	6779.3	6754.4	6869.1	6799.3	6694.6	6629.8	6699.6	6589.9	6644.7	6634.8
17.5°	7322.7	7317.7	7232.9	7118.3	7058.5	6963.8	6948.8	6903.9	6943.8	6923.9
20°	7701.5	7756.3	7771.3	7636.7	7407.4	7302.7	7277.8	7242.9	7287.8	7272.8
22.5°	8279.8	8195.0	8259.8	8025.5	7940.8	7691.5	7601.8	7552.0	7766.3	7711.5
25°	8648.6	8738.4	8673.6	8593.8	8404.4	8095.3	8030.5	8140.2	8224.9	8165.1
27.5°	9481.1	9391.4	9331.5	9092.3	8967.7	8643.6	8568.9	8529.0	8548.9	8583.8
30°	10114.2	10164.0	10029.4	9859.9	9545.9	9216.9	9042.4	9007.5	8937.7	8877.9
32.5°	11016.4	10941.6	10861.9	10752.2	10483.0	10049.4	9879.9	9750.3	9540.9	9261.8
35°	11450.1	11664.4	11604.6	11310.5	11106.1	10941.6	10891.8	10692.4	10517.9	10079.3
37.5°	12172.9	12262.6	12177.9	12083.2	11988.4	11814.0	11754.2	11809.0	11465.0	10742.2
40°	12641.5	12830.9	13005.3	12741.1	12721.2	12756.1	12387.2	12322.4	11614.6	11235.7
42.5°	13598.5	13678.3	13713.2	13703.2	13817.9	13817.9	13115.0	12975.4	12472.0	12162.9
45°	14864.7	14929.5	15054.1	15143.8	15014.2	15079.0	14077.1	14022.2	13573.6	13513.8
47.5°	15961.3	16115.9	16395.0	16659.2	16828.7	16609.4	15512.7	15123.9	15009.2	15368.1
50°	16918.4	16734.0	17387.0	17656.2	18398.9	18762.8	17097.9	16943.3	16758.9	17446.8
52.5°	17013.1	17262.4	18184.5	18722.9	20253.2	20926.2	19041.9	18977.1	18752.8	19545.4
55°	17691.1	17661.1	18588.3	19754.8	21574.2	22705.8	21574.2	21534.3	21045.8	21798.5
57.5°	17576.4	17880.5	18613.2	20243.3	22765.6	24614.9	24510.3	24236.1	23553.2	24166.3
60°	17187.6	17267.3	18159.6	20228.3	23458.5	26574.0	27680.6	27735.4	26339.7	26828.2
62.5°	14984.3	15168.7	16300.3	18638.2	22965.0	27924.8	30776.2	30581.7	29465.1	28906.9
65°	11918.7	11734.2	12910.6	15437.9	19894.3	26967.8	32132.0	32854.8	31100.2	30078.3
67.5°	7307.7	7262.9	8394.4	10622.6	14884.6	22950.0	31050.3	31613.6	30646.5	29829.0
70°	3763.5	3648.9	4356.7	5926.9	9356.5	16838.7	27022.6	27575.9	28498.1	26753.4
72.5°	1754.6	1729.7	2108.6	2916.1	4765.5	9899.8	20926.2	21325.0	23269.0	22556.2
75°	1031.9	1046.8	1261.2	1525.3	2322.9	4665.8	13887.7	14660.3	16768.9	16255.4
77.5°	772.6	772.6	897.3	1061.8	1355.9	1804.5	6854.1	7876.0	9805.1	8818.1
80°	568.3	578.2	687.9	797.6	942.1	932.2	2721.7	3190.3	4496.3	3843.3
82.5°	443.6	458.6	533.4	593.2	663.0	563.3	1116.6	1201.3	1849.4	1470.5
85°	309.1	319.0	418.7	403.8	403.8	314.0	463.6	488.5	732.8	697.9
87.5°	74.8	84.7	204.4	224.3	169.5	94.7	144.6	164.5	264.2	304.1
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°
5717.6	0°	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6	5717.6
5817.3	2.5°	5742.5	5762.4	5847.2	5802.3	5827.2	5722.5	5807.3	5737.5	5797.3	5767.4
5862.1	5°	5902.0	5857.1	5907.0	5872.1	5872.1	5912.0	5971.8	5926.9	6016.7	5976.8
5897.0	7.5°	5966.8	5971.8	6001.7	6006.7	5981.8	6106.4	6111.4	6096.4	6181.2	6161.2
6136.3	10°	6126.3	6131.3	6186.1	6216.0	6191.1	6236.0	6186.1	6146.3	6141.3	6121.3
6325.7	12.5°	6380.5	6430.4	6420.4	6445.3	6450.3	6260.9	6146.3	5951.9	5926.9	5951.9
6604.9	15°	6614.8	6594.9	6604.9	6654.7	6445.3	6141.3	5936.9	5772.4	5782.4	5787.4
6968.7	17.5°	6894.0	6908.9	6923.9	6694.6	6310.8	5951.9	5772.4	5772.4	5722.5	5742.5
7223.0	20°	7213.0	7153.2	7023.6	6699.6	6076.5	5732.5	5677.7	5677.7	5617.9	5578.0
7497.1	22.5°	7462.2	7342.6	7148.2	6545.0	5867.1	5647.8	5513.2	5418.5	5348.7	5268.9
7801.2	25°	7621.8	7557.0	7178.1	6385.5	5712.6	5423.5	5224.1	5079.5	4989.8	4885.1
8040.5	27.5°	7866.0	7741.4	7262.9	6201.1	5543.1	5199.1	4890.1	4665.8	4496.3	4386.6
8404.4	30°	8195.0	8015.6	7203.0	5936.9	5283.9	4810.3	4446.4	4157.3	3962.9	3873.2
8748.3	32.5°	8464.2	8229.9	7153.2	5697.6	4994.8	4416.5	3933.0	3638.9	3529.2	3414.6
9326.6	35°	8977.6	8514.0	7118.3	5563.0	4735.6	4022.7	3514.3	3260.1	3120.5	2951.0
9670.5	37.5°	9371.4	9007.5	7033.6	5283.9	4401.6	3638.9	3195.3	2966.0	2756.6	2577.1
10468.1	40°	9989.5	9695.4	7038.5	4890.1	4007.8	3309.9	2946.0	2706.7	2442.6	2288.0
11649.5	42.5°	11151.0	10373.4	7068.4	4576.0	3564.1	3040.7	2721.7	2437.6	2173.4	2043.8
12995.4	45°	12576.6	11305.5	6884.0	4291.9	3110.5	2786.5	2452.5	2168.4	1998.9	1904.2
14824.8	47.5°	14216.6	12217.7	6634.8	3758.5	2731.7	2517.3	2203.3	2038.8	1914.2	1859.3
17182.6	50°	16051.1	13523.8	6565.0	3270.0	2437.6	2288.0	2083.6	1959.0	1874.3	1809.5
19839.5	52.5°	18413.8	15044.1	6425.4	2766.6	2183.3	2103.6	2038.8	1954.0	1879.3	1824.4
22316.9	55°	20672.0	16729.0	6275.9	2352.8	2003.9	2013.9	2048.8	1974.0	1909.2	1824.4
25093.5	57.5°	23214.2	18448.7	5722.5	2048.8	1869.3	1969.0	2038.8	1954.0	1889.2	1824.4
27934.8	60°	24784.4	19415.8	4640.8	1784.6	1749.7	1884.3	1979.0	1889.2	1819.5	1844.4
29240.8	62.5°	25422.5	18907.3	3499.3	1620.1	1664.9	1769.6	1884.3	1849.4	1799.5	1894.2
29225.9	65°	24335.8	17735.9	2502.4	1480.5	1550.3	1655.0	1799.5	1839.4	1854.3	2038.8
26843.1	67.5°	21654.0	15442.9	1839.4	1365.8	1430.6	1585.2	1859.3	1924.1	1914.2	2143.5
22526.3	70°	17327.2	12078.2	1435.6	1271.1	1385.8	1640.0	1944.1	1944.1	1874.3	2143.5
17182.6	72.5°	12606.6	8514.0	1236.2	1161.5	1271.1	1505.4	1934.1	1929.1	1839.4	1959.0
10941.6	75°	7631.7	4954.9	1091.7	1051.8	1091.7	1291.1	1849.4	1819.5	1694.8	1684.9
5263.9	77.5°	3803.4	2492.4	892.3	932.2	952.1	1081.7	1625.0	1669.9	1500.4	1460.5
2078.7	80°	1605.1	1086.7	742.7	802.6	802.6	912.2	1350.9	1380.8	1246.2	1171.4
822.5	82.5°	732.8	623.1	633.1	697.9	653.0	707.8	1071.7	1106.6	1011.9	887.3
348.9	85°	309.1	353.9	483.5	548.3	483.5	458.6	737.8	777.6	658.0	548.3
149.5	87.5°	139.6	194.4	304.1	398.8	244.3	214.3	393.8	408.8	329.0	244.3
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°
5717.6
5712.6
5921.9
6131.3
6121.3
5961.8
5857.1
5747.5
5518.2
5224.1
4905.0
4436.5
3923.0
3409.6
2936.0
2582.1
2303.0
2053.7
1924.1
1849.4
1819.5
1819.5
1819.5
1819.5
1824.4
1869.3
2038.8
2158.4
2098.6
1889.2
1664.9
1435.6
1146.5
867.4
553.3
229.3
0.0

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