

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: P477442

Luminaire Tested: **IFLD-L-SA7C-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

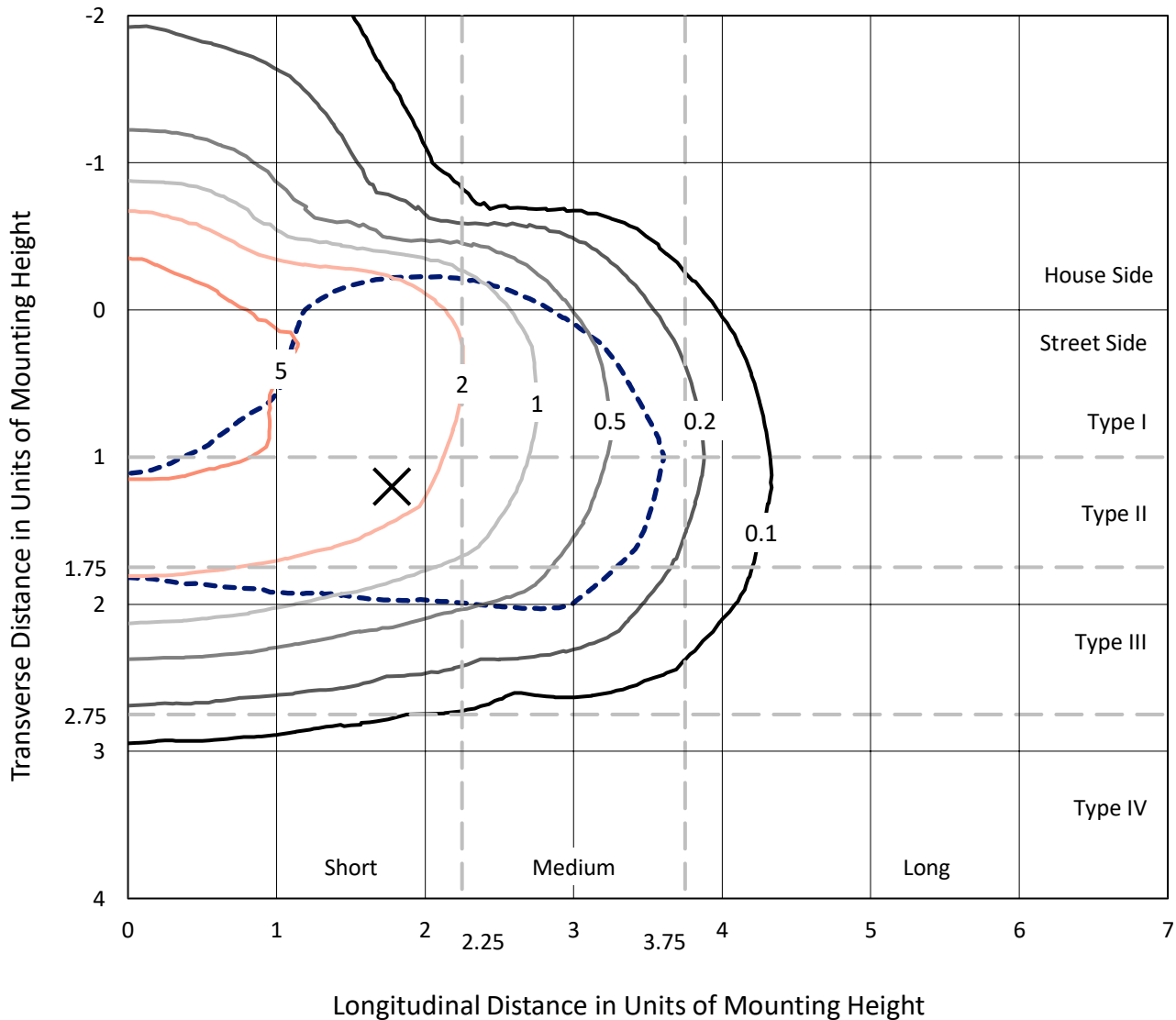
Lumens per Lamp: N/A
Luminaire Lumens: 46185.9 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

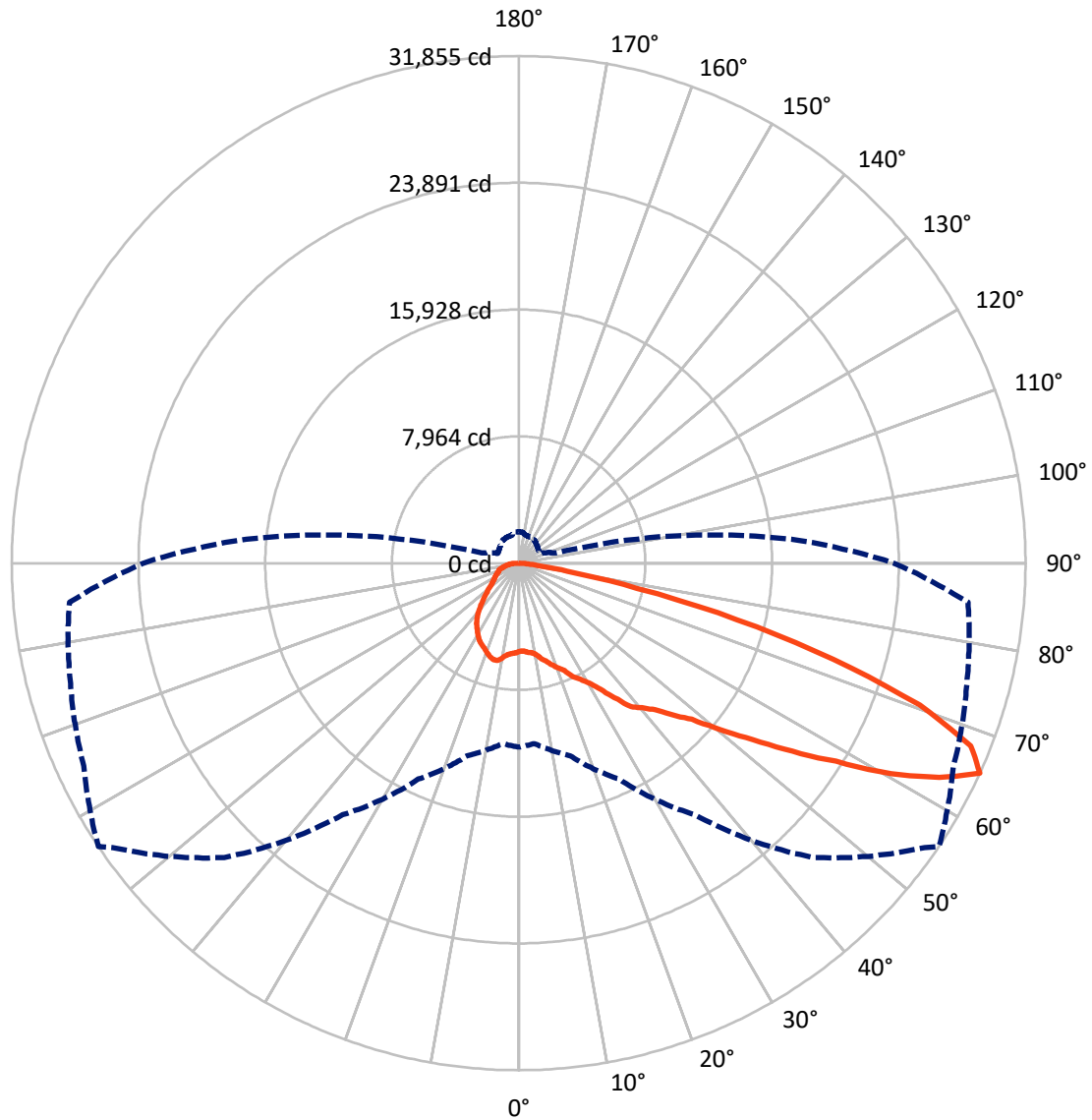
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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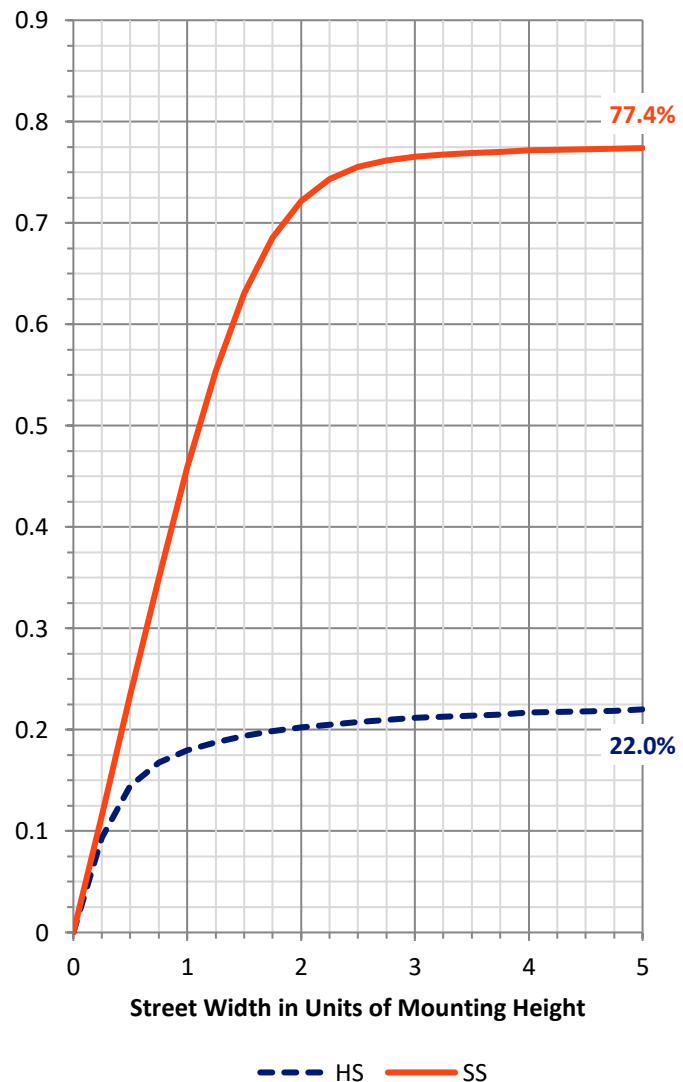
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10358.0	0.0	10358.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	35827.9	0.0	35827.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	46185.9	0.0	46185.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.3	1.2
10°-20°	1783.8	3.9
20°-30°	3176.2	6.9
30°-40°	4756.3	10.3
40°-50°	7047.0	15.3
50°-60°	10858.5	23.5
60°-70°	12293.1	26.6
70°-80°	5101.8	11.0
80°-90°	619.8	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°	46185.9	100.0
0°-180°	46185.9	100.0

Coefficient of Utilization



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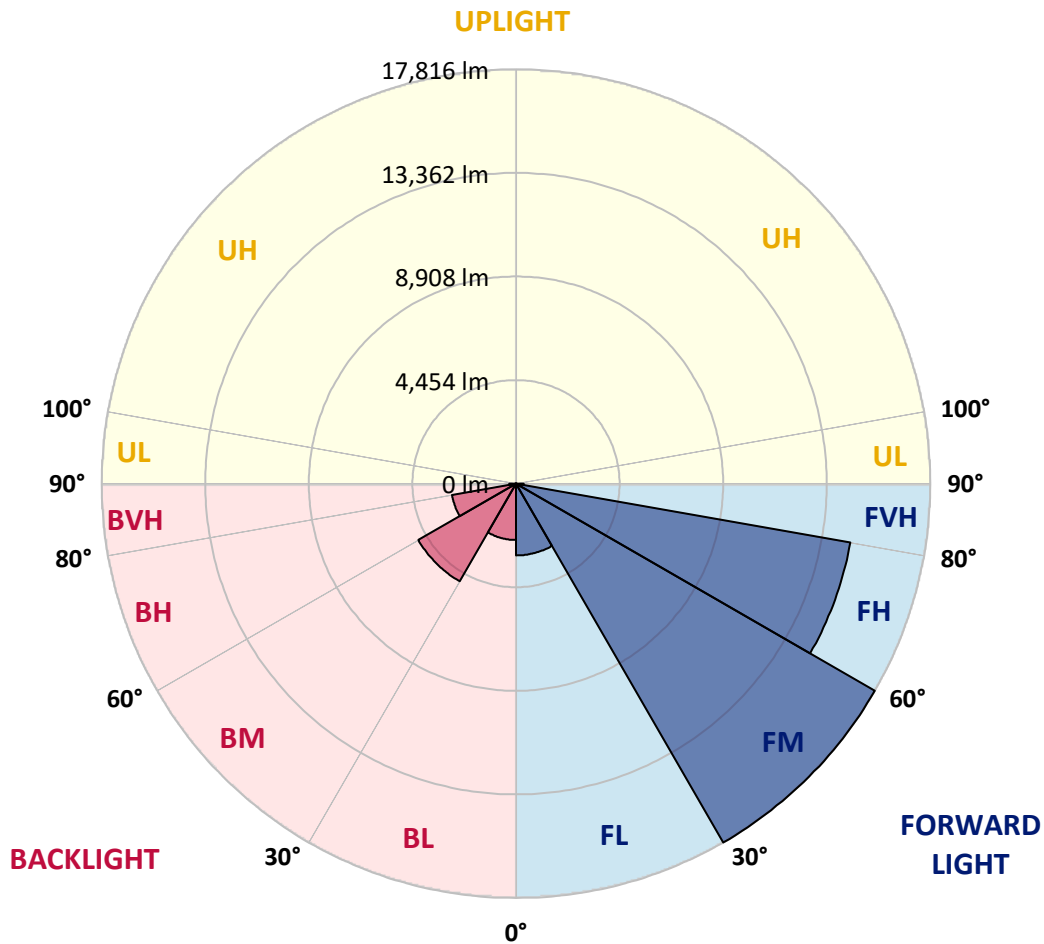
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.6	6.7			
FM (30°-60°)	17816.5	38.6			
FH (60°-80°)	14597.9	31.6			G5
FVH (80°-90°)	326.9	0.7			G3/500
BL (0°-30°)	2422.8	5.2	B3/2500		
BM (30°-60°)	4845.3	10.5	B3/5000		
BH (60°-80°)	2797.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	292.9	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°	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6
2.5°	5398.6	5427.6	5408.3	5466.3	5514.6	5514.6	5553.3	5524.3	5563.0	5616.1
5°	5577.5	5461.5	5524.3	5553.3	5538.8	5563.0	5524.3	5621.0	5558.1	5659.6
7.5°	5621.0	5664.4	5717.6	5669.3	5712.8	5688.6	5693.4	5678.9	5645.1	5727.3
10°	5939.9	5877.1	5997.9	5925.4	5915.8	5906.1	5886.8	5814.3	5896.4	5901.3
12.5°	6307.3	6249.3	6244.4	6186.4	6263.8	6123.6	6152.6	6113.9	6128.4	6147.8
15°	6573.1	6548.9	6660.1	6592.4	6490.9	6428.1	6495.8	6389.4	6442.6	6432.9
17.5°	7099.9	7095.1	7012.9	6901.7	6843.7	6751.9	6737.4	6693.9	6732.6	6713.2
20°	7467.2	7520.4	7534.9	7404.4	7182.1	7080.6	7056.4	7022.6	7066.1	7051.6
22.5°	8027.9	7945.7	8008.5	7781.4	7699.2	7457.5	7370.6	7322.2	7530.0	7476.9
25°	8385.5	8472.5	8409.7	8332.3	8148.7	7849.0	7786.2	7892.5	7974.7	7916.7
27.5°	9192.6	9105.7	9047.7	8815.7	8694.8	8380.7	8308.2	8269.5	8288.8	8322.7
30°	9806.5	9854.8	9724.3	9560.0	9255.5	8936.5	8767.3	8733.5	8665.8	8607.8
32.5°	10681.3	10608.8	10531.4	10425.1	10164.1	9743.6	9579.3	9453.6	9250.6	8980.0
35°	11101.7	11309.6	11251.6	10966.4	10768.3	10608.8	10560.4	10367.1	10197.9	9772.6
37.5°	11802.5	11889.5	11807.4	11715.6	11623.7	11454.6	11396.6	11449.7	11116.2	10415.4
40°	12256.9	12440.5	12609.7	12353.5	12334.2	12368.0	12010.4	11947.5	11261.2	10893.9
42.5°	13184.8	13262.2	13296.0	13286.3	13397.5	13397.5	12716.0	12580.7	12092.5	11792.9
45°	14412.4	14475.3	14596.1	14683.1	14557.4	14620.3	13648.8	13595.6	13160.7	13102.7
47.5°	15475.7	15625.6	15896.2	16152.4	16316.7	16104.0	15040.8	14663.8	14552.6	14900.6
50°	16403.7	16224.9	16858.0	17119.0	17839.2	18192.0	16577.7	16427.9	16249.0	16916.0
52.5°	16495.5	16737.2	17631.3	18153.3	19637.1	20289.6	18462.6	18399.8	18182.3	18950.8
55°	17152.8	17123.8	18022.8	19153.8	20917.9	22015.0	20917.9	20879.2	20405.6	21135.4
57.5°	17041.7	17336.5	18047.0	19627.4	22073.0	23866.1	23764.6	23498.8	22836.6	23431.1
60°	16664.7	16742.0	17607.2	19612.9	22744.8	25765.5	26838.5	26891.6	25538.4	26012.0
62.5°	14528.4	14707.3	15804.4	18071.1	22266.3	27075.3	29839.9	29651.4	28568.7	28027.4
65°	11556.1	11377.2	12517.9	14968.3	19289.1	26147.3	31154.5	31855.3	30154.0	29163.2
67.5°	7085.4	7041.9	8139.0	10299.4	14431.8	22251.8	30105.7	30651.8	29714.2	28921.6
70°	3649.0	3537.9	4224.2	5746.6	9071.8	16326.4	26200.5	26737.0	27631.1	25939.5
72.5°	1701.3	1677.1	2044.4	2827.4	4620.5	9598.6	20289.6	20676.2	22561.1	21870.0
75°	1000.5	1015.0	1222.8	1478.9	2252.2	4523.8	13465.2	14214.3	16258.7	15760.9
77.5°	749.1	749.1	870.0	1029.5	1314.6	1749.6	6645.6	7636.4	9506.8	8549.8
80°	551.0	560.6	667.0	773.3	913.5	903.8	2638.9	3093.2	4359.5	3726.4
82.5°	430.2	444.6	517.1	575.1	642.8	546.1	1082.6	1164.8	1793.1	1425.8
85°	299.7	309.3	406.0	391.5	391.5	304.5	449.5	473.6	710.5	676.6
87.5°	72.5	82.2	198.2	217.5	164.3	91.8	140.2	159.5	256.2	294.8
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°
5543.6	0°	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6	5543.6
5640.3	2.5°	5567.8	5587.1	5669.3	5625.8	5650.0	5548.5	5630.6	5563.0	5621.0	5592.0
5683.8	5°	5722.4	5678.9	5727.3	5693.4	5693.4	5732.1	5790.1	5746.6	5833.6	5794.9
5717.6	7.5°	5785.3	5790.1	5819.1	5823.9	5799.8	5920.6	5925.4	5910.9	5993.1	5973.8
5949.6	10°	5939.9	5944.8	5997.9	6026.9	6002.8	6046.3	5997.9	5959.3	5954.4	5935.1
6133.3	12.5°	6186.4	6234.8	6225.1	6249.3	6254.1	6070.4	5959.3	5770.8	5746.6	5770.8
6403.9	15°	6413.6	6394.3	6403.9	6452.3	6249.3	5954.4	5756.3	5596.8	5606.5	5611.3
6756.7	17.5°	6684.2	6698.7	6713.2	6490.9	6118.8	5770.8	5596.8	5596.8	5548.5	5567.8
7003.2	20°	6993.6	6935.6	6809.9	6495.8	5891.6	5558.1	5505.0	5505.0	5447.0	5408.3
7269.1	22.5°	7235.2	7119.2	6930.7	6345.9	5688.6	5476.0	5345.5	5253.6	5186.0	5108.6
7563.9	25°	7389.9	7327.1	6959.7	6191.3	5538.8	5258.5	5065.1	4925.0	4838.0	4736.5
7795.9	27.5°	7626.7	7505.9	7041.9	6012.4	5374.5	5041.0	4741.3	4523.8	4359.5	4253.2
8148.7	30°	7945.7	7771.7	6983.9	5756.3	5123.1	4664.0	4311.2	4030.8	3842.4	3755.4
8482.2	32.5°	8206.7	7979.5	6935.6	5524.3	4842.8	4282.2	3813.4	3528.2	3421.9	3310.7
9042.8	35°	8704.5	8255.0	6901.7	5393.8	4591.5	3900.4	3407.4	3160.9	3025.6	2861.2
9376.3	37.5°	9086.3	8733.5	6819.6	5123.1	4267.7	3528.2	3098.0	2875.7	2672.7	2498.7
10149.6	40°	9685.6	9400.5	6824.4	4741.3	3885.9	3209.2	2856.4	2624.4	2368.2	2218.4
11295.1	42.5°	10811.8	10057.8	6853.4	4436.8	3455.7	2948.2	2638.9	2363.4	2107.3	1981.6
12600.0	45°	12194.0	10961.6	6674.6	4161.3	3015.9	2701.7	2377.9	2102.4	1938.1	1846.3
14373.8	47.5°	13784.1	11846.0	6432.9	3644.2	2648.6	2440.7	2136.3	1976.8	1855.9	1802.8
16659.9	50°	15562.7	13112.3	6365.3	3170.5	2363.4	2218.4	2020.3	1899.4	1817.3	1754.4
19235.9	52.5°	17853.6	14586.4	6229.9	2682.4	2116.9	2039.6	1976.8	1894.6	1822.1	1768.9
21638.0	55°	20043.1	16220.0	6084.9	2281.2	1942.9	1952.6	1986.4	1913.9	1851.1	1768.9
24330.1	57.5°	22508.0	17887.5	5548.5	1986.4	1812.4	1909.1	1976.8	1894.6	1831.8	1768.9
27085.0	60°	24030.4	18825.1	4499.7	1730.3	1696.4	1826.9	1918.8	1831.8	1764.1	1788.3
28351.2	62.5°	24649.1	18332.1	3392.9	1570.8	1614.3	1715.8	1826.9	1793.1	1744.8	1836.6
28336.7	65°	23595.4	17196.3	2426.2	1435.4	1503.1	1604.6	1744.8	1783.4	1797.9	1976.8
26026.5	67.5°	20995.2	14973.1	1783.4	1324.3	1387.1	1536.9	1802.8	1865.6	1855.9	2078.3
21841.0	70°	16800.0	11710.7	1391.9	1232.5	1343.6	1590.1	1884.9	1884.9	1817.3	2078.3
16659.9	72.5°	12223.0	8255.0	1198.6	1126.1	1232.5	1459.6	1875.3	1870.4	1783.4	1899.4
10608.8	75°	7399.5	4804.1	1058.5	1019.8	1058.5	1251.8	1793.1	1764.1	1643.3	1633.6
5103.8	77.5°	3687.7	2416.6	865.1	903.8	923.1	1048.8	1575.6	1619.1	1454.8	1416.1
2015.4	80°	1556.3	1053.6	720.1	778.1	778.1	884.5	1309.8	1338.8	1208.3	1135.8
797.5	82.5°	710.5	604.1	613.8	676.6	633.1	686.3	1039.1	1073.0	981.1	860.3
338.3	85°	299.7	343.2	468.8	531.6	468.8	444.6	715.3	754.0	638.0	531.6
145.0	87.5°	135.3	188.5	294.8	386.7	236.8	207.8	381.8	396.3	319.0	236.8
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°
5543.6
5538.8
5741.8
5944.8
5935.1
5780.4
5678.9
5572.6
5350.3
5065.1
4755.8
4301.5
3803.7
3305.9
2846.7
2503.6
2232.9
1991.3
1865.6
1793.1
1764.1
1764.1
1764.1
1764.1
1768.9
1812.4
1976.8
2092.8
2034.8
1831.8
1614.3
1391.9
1111.6
841.0
536.5
222.3
0.0

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