

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: P637581

Luminaire Tested: **IFLD-S-SA2D-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13377.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 123.9
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: 25 FT



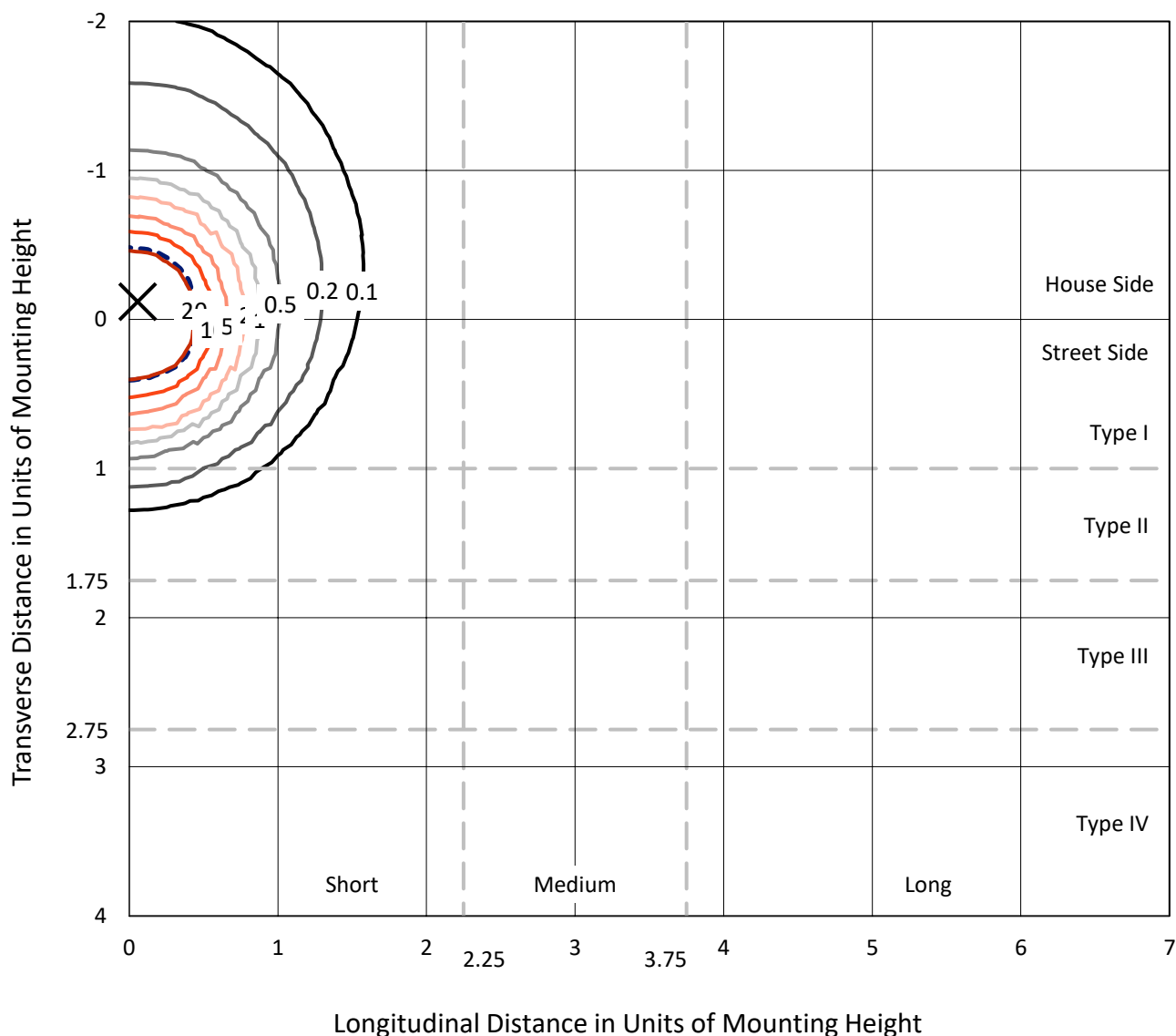
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



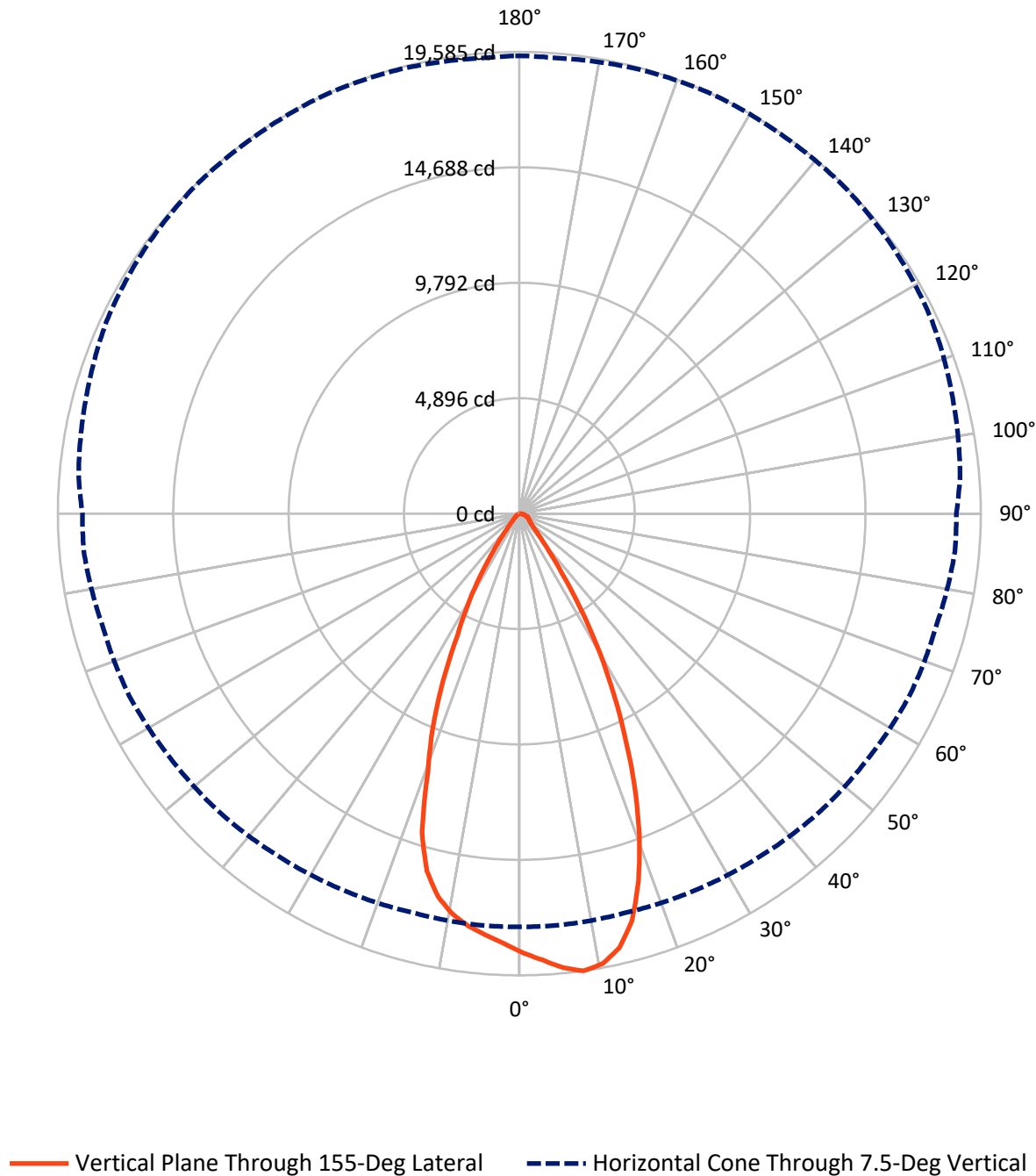
Based on 20 foot mounting height. Maximum calculated value = 47.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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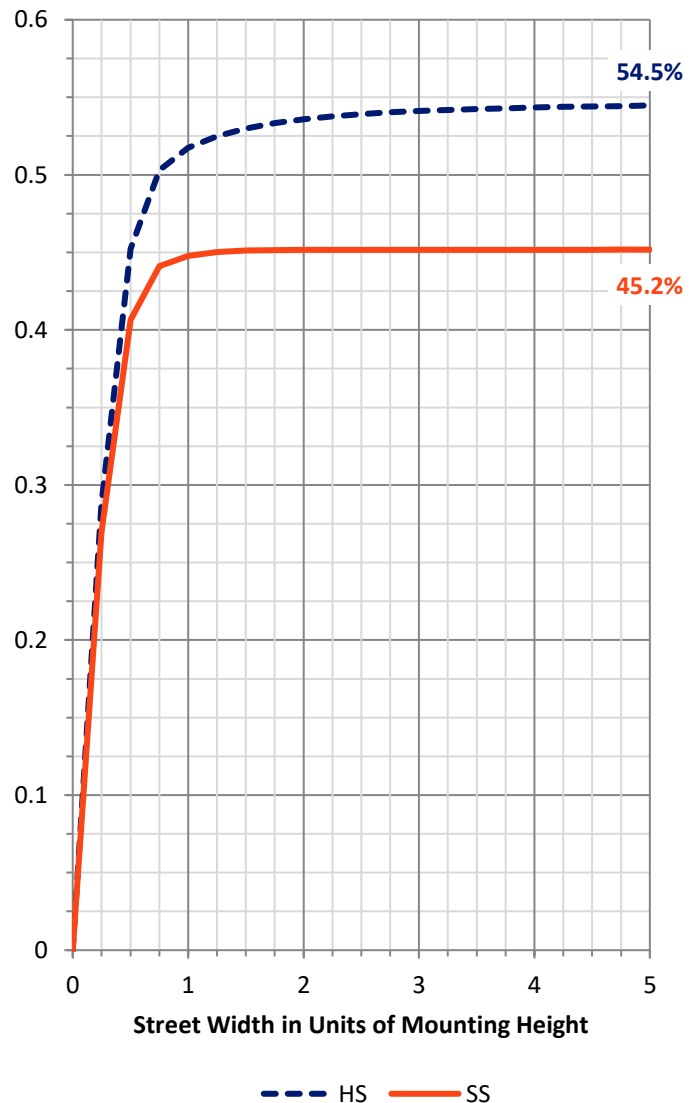
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7384.9	0.0	7384.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5992.6	0.0	5992.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	13377.5	0.0	13377.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1777.1	13.3
10°-20°	4607.9	34.4
20°-30°	4222.1	31.6
30°-40°	1705.7	12.8
40°-50°	500.4	3.7
50°-60°	279.8	2.1
60°-70°	169.9	1.3
70°-80°	86.3	0.6
80°-90°	28.2	0.2
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°	13377.5	100.0
0°-180°	13377.5	100.0

Coefficient of Utilization



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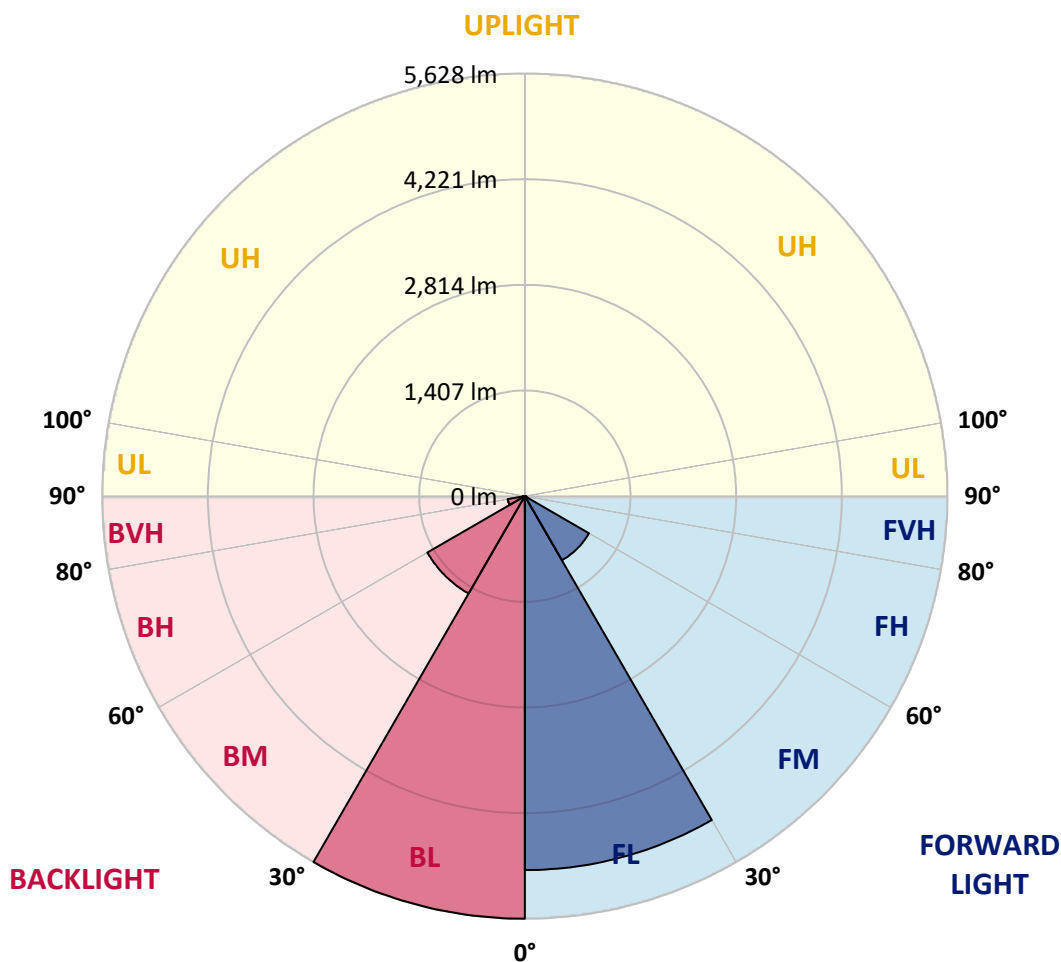
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4979.4	37.2			
FM	(30°-60°)	986.8	7.4			
FH	(60°-80°)	23.9	0.2			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	5627.6	42.1	B5		
BM	(30°-60°)	1499.1	11.2	B2/2500		
BH	(60°-80°)	232.4	1.7	B1/500		G1/500
BVH	(80°-90°)	25.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9
2.5°	18231.7	18293.4	18170.0	18251.8	18315.0	18466.2	18478.5	18531.0	18549.5	18686.8
5°	17886.2	17934.0	17833.7	17943.3	18032.7	18166.9	18270.3	18415.3	18495.5	18657.5
7.5°	17526.8	17537.6	17517.5	17633.2	17767.4	17952.5	18080.6	18270.3	18319.7	18551.0
10°	17091.8	17013.1	17051.7	17221.3	17421.9	17705.7	17793.6	17983.4	18071.3	18307.3
12.5°	16397.6	16437.7	16389.9	16605.9	16772.4	17094.8	17187.4	17378.7	17546.8	17755.1
15°	15419.6	15396.5	15493.7	15661.8	15842.3	16098.3	16248.0	16456.2	16584.3	16800.2
17.5°	13221.4	13300.1	13701.2	14122.3	14492.5	14791.8	14970.7	15143.5	15236.0	15470.5
20°	11418.2	11319.4	11373.4	11611.0	12664.6	13122.7	13310.9	13352.6	13391.1	13576.2
22.5°	9402.0	9369.6	9550.1	9817.0	10066.9	11123.5	11379.6	11282.4	11362.6	11536.9
25°	6981.7	7145.2	7305.6	7817.8	8141.7	8660.0	9145.9	9189.1	9218.4	9328.0
27.5°	5682.9	5625.8	5622.7	5766.2	6244.4	6676.3	7089.7	7185.3	7168.4	7273.3
30°	4467.3	4448.8	4384.0	4417.9	4370.1	4754.2	4948.6	5341.9	5320.4	5323.4
32.5°	3222.4	3153.0	3126.8	3177.7	3128.3	3092.9	3262.6	3706.8	3699.1	3730.0
35°	1949.8	1940.6	1962.2	2006.9	1908.2	1905.1	1940.6	2358.6	2409.5	2458.9
37.5°	1076.7	1067.5	1084.4	1249.5	1217.1	1187.8	1197.0	1417.6	1564.2	1601.2
40°	709.6	708.0	720.4	749.7	805.2	794.4	799.1	897.8	1036.6	1069.0
42.5°	475.1	476.7	484.4	518.3	526.0	581.6	572.3	595.4	725.0	752.8
45°	379.5	377.9	382.6	367.1	376.4	433.5	439.6	441.2	552.2	569.2
47.5°	299.3	299.3	303.9	283.8	279.2	314.7	347.1	351.7	441.2	464.3
50°	209.8	209.8	232.9	223.7	234.5	245.3	280.7	285.4	361.0	385.6
52.5°	154.3	157.3	160.4	162.0	197.4	195.9	226.8	248.4	273.0	316.2
55°	117.2	120.3	112.6	120.3	146.5	163.5	169.7	200.5	217.5	265.3
57.5°	77.1	84.8	78.7	92.6	98.7	126.5	135.7	165.1	175.9	217.5
60°	10.8	12.3	20.1	64.8	69.4	83.3	104.9	131.1	141.9	177.4
62.5°	1.5	1.5	4.6	10.8	46.3	55.5	78.7	91.0	104.9	132.7
65°	0.0	0.0	1.5	3.1	9.3	32.4	40.1	49.4	72.5	95.6
67.5°	0.0	0.0	1.5	3.1	4.6	10.8	17.0	32.4	41.6	66.3
70°	0.0	0.0	1.5	3.1	4.6	6.2	9.3	12.3	24.7	38.6
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	9.3	10.8	24.7
75°	0.0	0.0	1.5	3.1	4.6	7.7	9.3	9.3	9.3	10.8
77.5°	0.0	0.0	1.5	3.1	6.2	9.3	10.8	9.3	7.7	7.7
80°	0.0	0.0	1.5	4.6	7.7	10.8	12.3	9.3	6.2	4.6
82.5°	0.0	0.0	1.5	4.6	7.7	10.8	12.3	10.8	6.2	4.6
85°	0.0	0.0	1.5	4.6	6.2	7.7	12.3	10.8	6.2	3.1
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	6.2	4.6	3.1	1.5
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18635.9	0°	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9	18635.9
18683.7	2.5°	18822.5	18892.0	19013.8	19047.8	19152.6	19032.3	18966.0	18972.2	18828.7
18637.4	5°	18822.5	18981.4	19194.3	19296.1	19373.2	19367.1	19350.1	19306.9	19202.0
18544.9	7.5°	18773.2	19032.3	19325.4	19461.2	19553.7	19546.0	19584.6	19515.2	19387.1
18379.8	10°	18614.3	18839.5	19200.5	19311.5	19461.2	19464.2	19416.4	19430.3	19202.0
17776.7	12.5°	18114.5	18290.3	18606.6	18733.1	18915.1	18944.4	18892.0	18871.9	18655.9
16787.9	15°	17147.3	17249.1	17566.9	17693.4	17873.8	17849.2	17901.6	17880.0	17690.3
15452.0	17.5°	15732.8	15765.1	16098.3	16204.8	16374.5	16440.8	16362.1	16462.4	16298.9
13608.6	20°	13704.3	13878.6	14253.4	14416.9	14515.7	14634.4	14531.1	14643.7	14452.4
11371.9	22.5°	11646.5	11749.8	12089.2	12325.2	12508.8	12531.9	12493.3	12572.0	12314.4
9400.5	25°	9398.9	9570.2	9838.6	10147.1	10327.6	10438.6	10338.4	10389.3	10347.6
7290.2	27.5°	7413.6	7566.3	7768.4	7998.3	8269.8	8414.8	8334.5	8420.9	8217.3
5436.0	30°	5440.7	5517.8	5746.1	5989.8	6287.5	6463.4	6471.1	6559.0	6438.7
3808.6	32.5°	3836.4	3904.3	4044.6	4206.6	4490.4	4686.4	4655.5	4667.8	4593.8
2482.0	35°	2494.3	2585.4	2685.6	2762.8	2934.0	3149.9	3133.0	3117.5	3066.6
1632.0	37.5°	1667.5	1703.0	1758.5	1828.0	1939.0	2074.8	2119.5	2064.0	2042.4
1101.4	40°	1127.6	1189.3	1226.3	1278.8	1331.2	1445.4	1476.2	1465.4	1443.9
771.3	42.5°	800.6	848.4	894.7	945.6	973.4	1044.3	1104.5	1087.5	1078.3
586.2	45°	607.8	651.0	705.0	743.5	771.3	812.9	870.0	876.2	862.3
470.5	47.5°	487.5	526.0	569.2	617.0	649.4	675.6	725.0	743.5	734.3
396.4	50°	413.4	442.7	484.4	532.2	567.7	590.8	634.0	654.1	647.9
331.7	52.5°	351.7	387.2	425.8	465.9	509.1	532.2	572.3	601.6	597.0
274.6	55°	291.5	337.8	377.9	418.0	467.4	490.5	526.0	564.6	556.9
232.9	57.5°	254.5	293.1	334.7	373.3	425.8	456.6	489.0	529.1	527.6
191.3	60°	212.9	251.4	297.7	330.1	385.6	428.8	458.1	499.8	502.9
145.0	62.5°	169.7	217.5	253.0	297.7	348.6	399.5	427.3	468.9	484.4
111.1	65°	126.5	178.9	219.0	263.8	311.6	368.7	393.4	435.0	450.4
80.2	67.5°	94.1	134.2	185.1	223.7	277.7	327.0	356.3	394.9	405.7
47.8	70°	71.0	103.4	154.3	188.2	243.7	283.8	313.1	342.5	356.3
32.4	72.5°	41.6	77.1	121.9	162.0	209.8	243.7	265.3	288.5	297.7
15.4	75°	29.3	58.6	95.6	134.2	169.7	197.4	217.5	237.6	246.8
7.7	77.5°	15.4	43.2	75.6	108.0	132.7	155.8	175.9	191.3	197.4
6.2	80°	9.3	30.9	61.7	84.8	101.8	121.9	141.9	152.7	151.2
4.6	82.5°	6.2	24.7	44.7	61.7	74.0	89.5	103.4	111.1	111.1
3.1	85°	4.6	17.0	30.9	47.8	49.4	61.7	64.8	72.5	74.0
3.1	87.5°	3.1	10.8	17.0	27.8	26.2	32.4	33.9	38.6	41.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18635.9
18713.0
19235.9
19416.4
19135.7
18606.6
17750.4
16258.8
14437.0
12278.9
10321.4
8269.8
6460.3
4635.4
3021.9
2037.7
1446.9
1070.5
860.8
729.6
646.3
593.9
556.9
526.0
502.9
482.8
448.9
405.7
353.3
294.6
243.7
195.9
149.6
109.5
72.5
40.1
0.0

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