

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: P636544

Luminaire Tested: **IFLD-S-SA6A-950-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-950-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16138.3 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 189.6
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: 25 FT



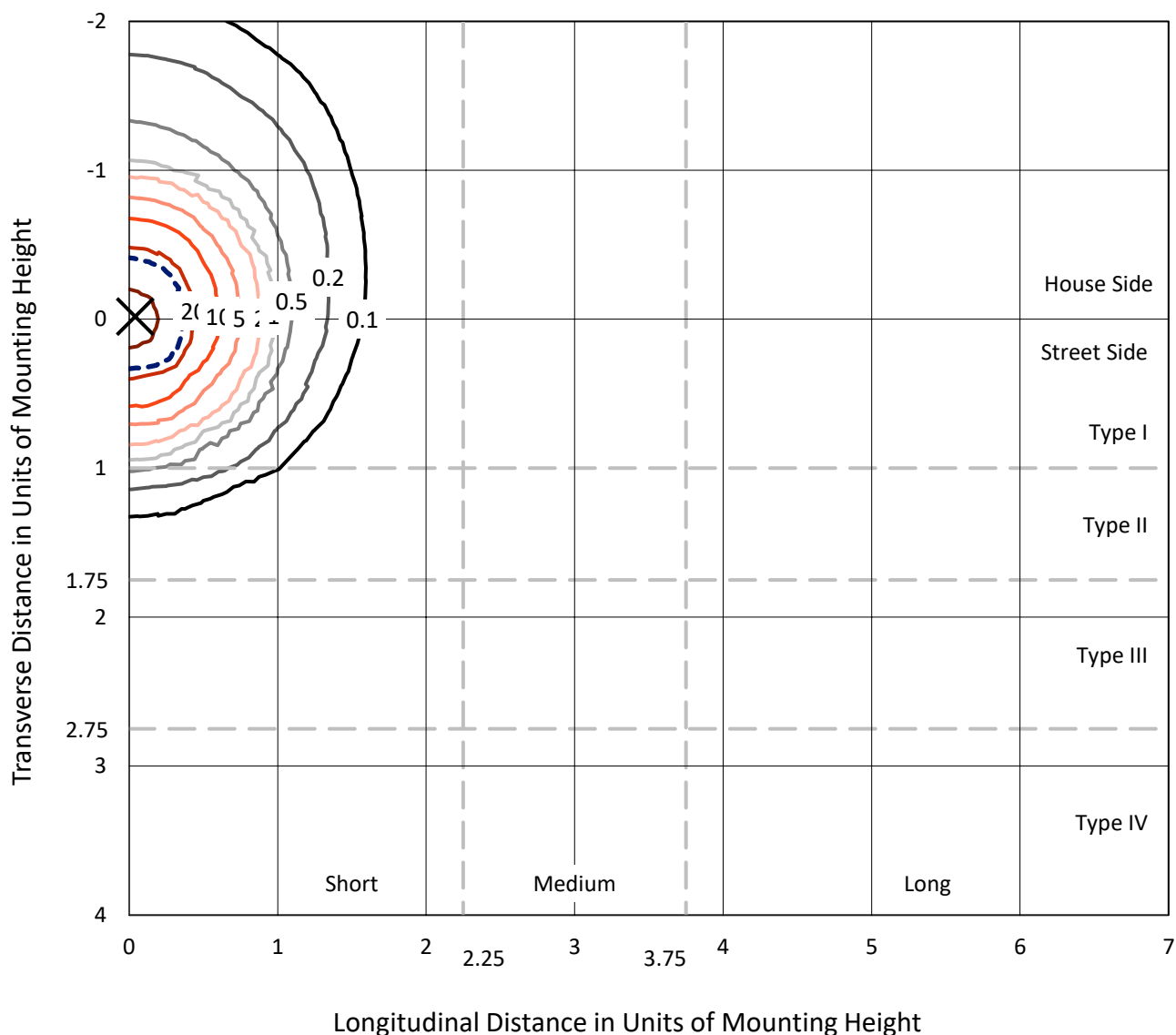
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

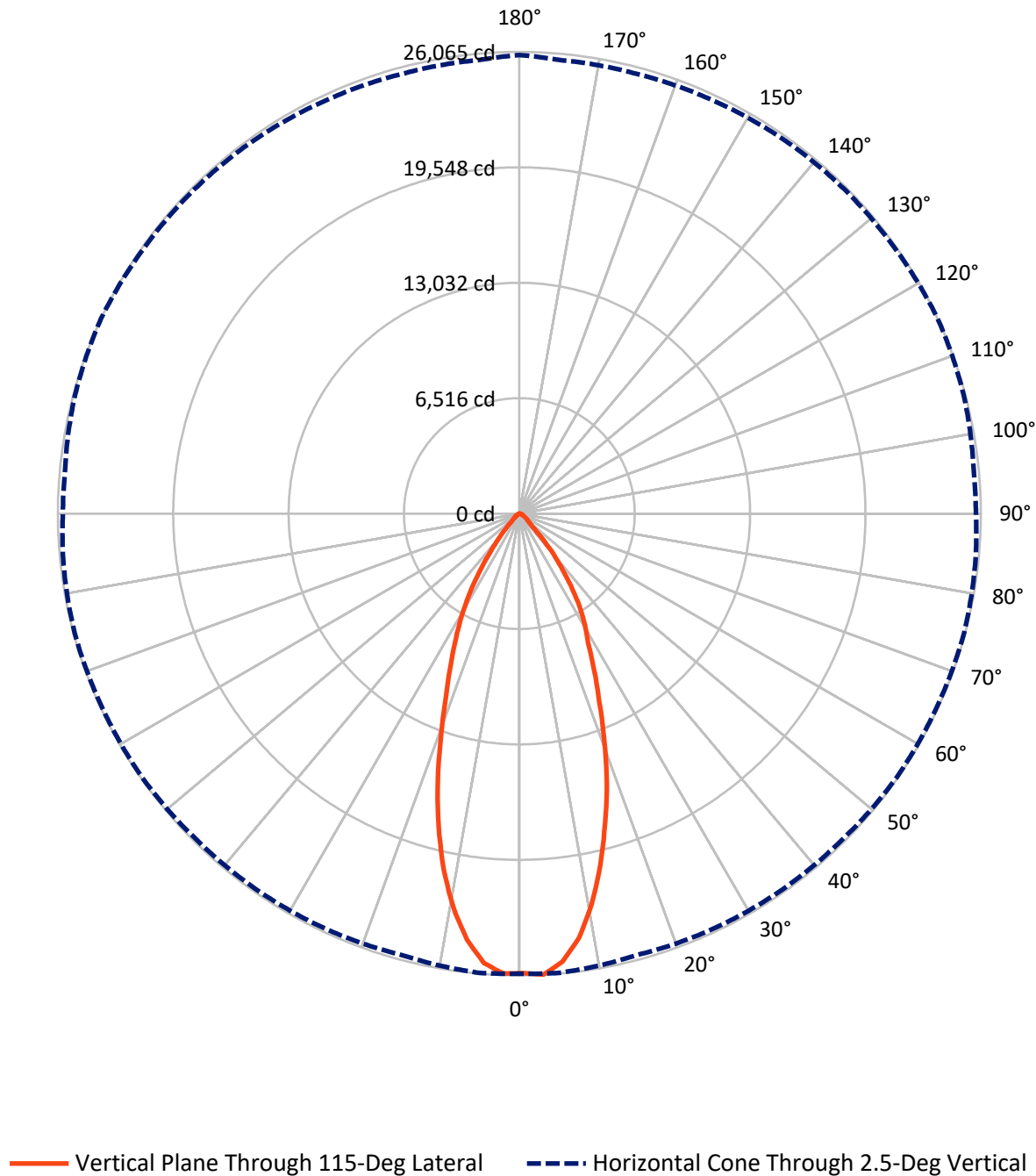


Based on 20 foot mounting height. Maximum calculated value = 64.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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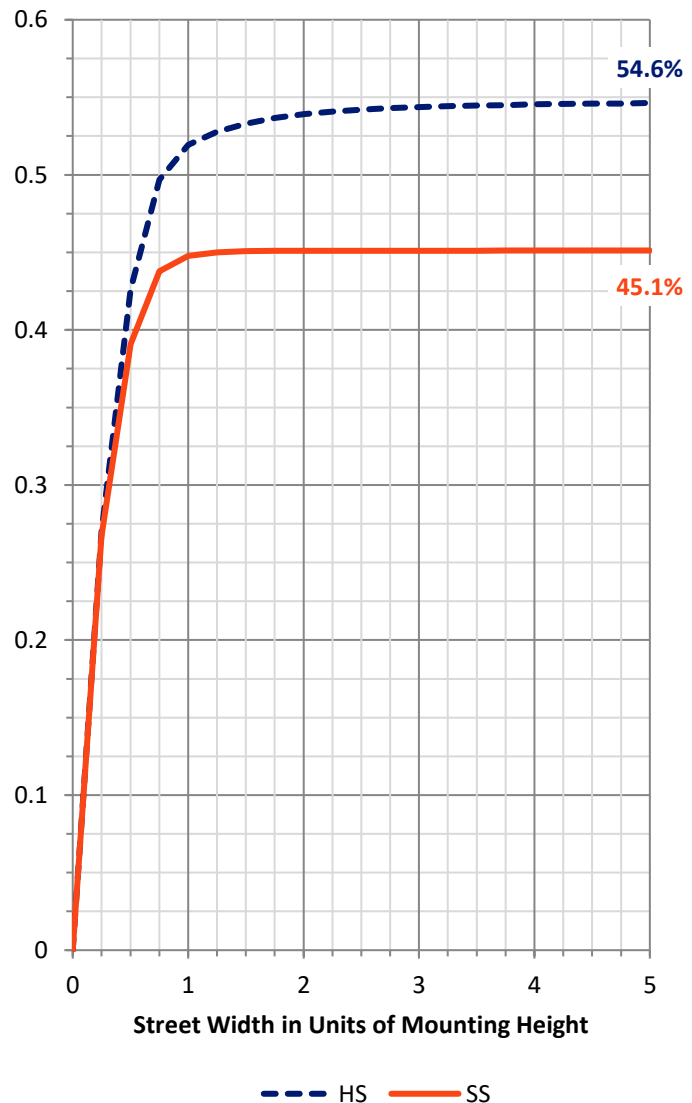
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8906.5	0.0	8906.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7231.9	0.0	7231.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	16138.3	0.0	16138.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2326.8	14.4
10°-20°	4917.7	30.5
20°-30°	4438.5	27.5
30°-40°	2937.2	18.2
40°-50°	879.9	5.5
50°-60°	352.9	2.2
60°-70°	182.8	1.1
70°-80°	79.3	0.5
80°-90°	23.1	0.1
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°	16138.3	100.0
0°-180°	16138.3	100.0

Coefficient of Utilization



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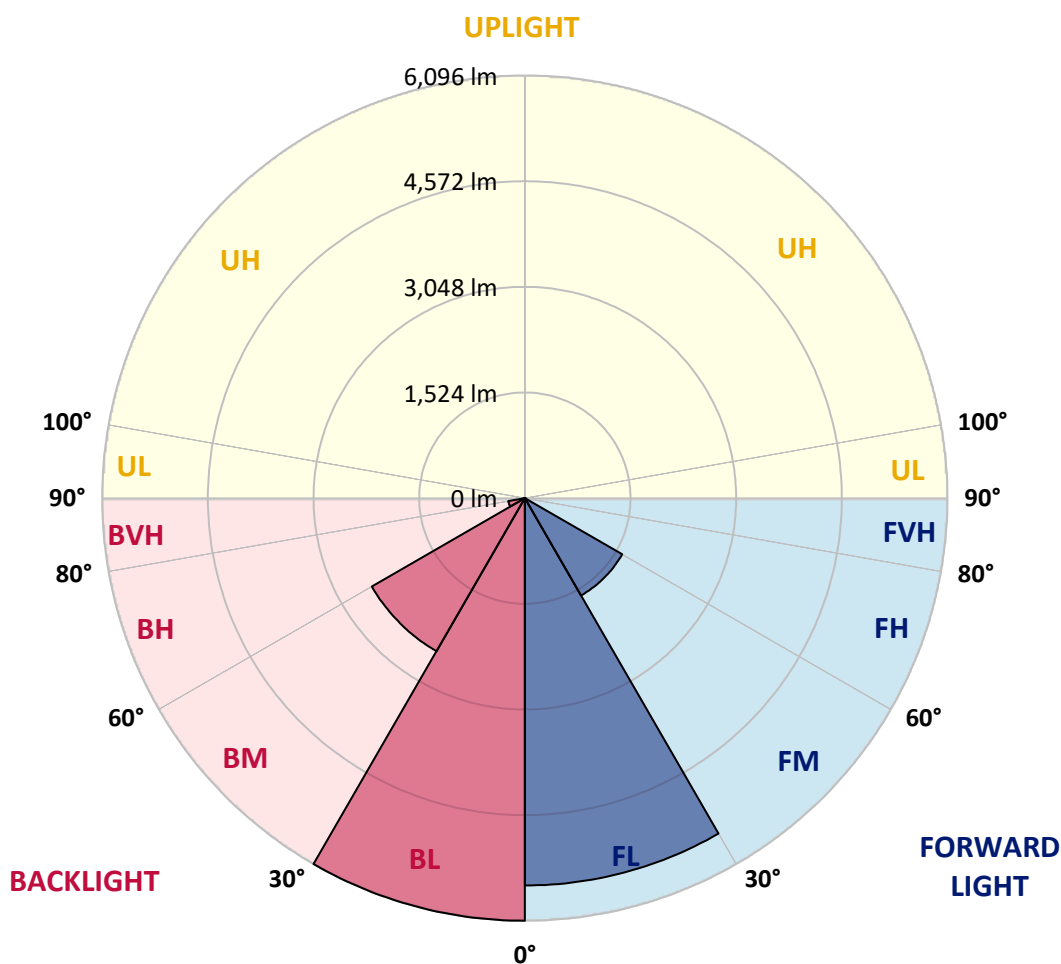
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5587.2	34.6			
FM	(30°-60°)	1621.2	10.0			
FH	(60°-80°)	20.1	0.1			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	6095.9	37.8	B5		
BM	(30°-60°)	2548.8	15.8	B3/5000		
BH	(60°-80°)	242.0	1.5	B1/500		G1/500
BVH	(80°-90°)	19.8	0.1			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°	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4
2.5°	25975.4	26021.6	25790.6	25869.8	25902.8	25912.7	25995.2	25982.0	26005.1	25883.0
5°	25632.2	25543.1	25371.4	25374.7	25364.8	25272.4	25460.5	25447.3	25407.7	25262.5
7.5°	24463.8	24592.5	24269.0	24262.4	24255.8	24143.6	24391.2	24239.3	24272.3	24064.4
10°	22754.1	22770.6	22483.4	22457.0	22480.1	22334.9	22622.1	22562.7	22625.4	22407.5
12.5°	20658.2	20750.6	20433.8	20387.6	20480.0	20275.4	20506.4	20536.1	20443.7	20414.0
15°	16202.5	16446.7	17047.4	17965.0	18202.6	18031.0	18215.8	18212.5	18252.1	18027.7
17.5°	12344.1	12367.2	12225.3	12664.3	15205.7	16030.8	16070.4	15756.9	15519.2	15436.7
20°	10776.3	10855.6	10726.8	10763.1	11169.1	13588.4	13680.8	13208.9	12802.9	12769.9
22.5°	9528.7	9578.2	9485.8	9515.5	9535.3	9819.2	11426.6	11010.7	10815.9	10667.4
25°	8472.5	8472.5	8423.0	8432.9	8413.1	7994.0	8819.1	9294.4	9182.2	9129.4
27.5°	7508.8	7522.0	7459.3	7495.6	7254.6	6578.0	6479.0	7881.7	7762.9	7667.2
30°	6594.5	6637.4	6578.0	6597.8	6073.0	5518.5	5234.7	6574.7	6723.2	6696.8
32.5°	4964.0	5158.8	5637.4	5657.2	4944.2	4518.5	4393.0	5277.6	5842.0	5792.5
35°	3076.1	3066.2	3086.0	4036.6	3792.3	3501.9	3548.1	3987.1	4624.1	4601.0
37.5°	2346.7	2343.4	2379.7	2284.0	2485.3	2657.0	2693.3	2693.3	3376.5	3379.8
40°	1779.0	1765.8	1762.5	1610.7	1349.9	1993.5	1934.1	1884.6	2346.7	2396.2
42.5°	1135.4	1175.0	1145.3	980.3	881.3	1089.2	1214.6	1175.0	1448.9	1485.3
45°	633.7	633.7	607.3	514.9	511.6	551.2	693.1	646.9	742.6	792.1
47.5°	307.0	300.4	330.1	406.0	422.5	409.3	495.1	514.9	561.1	607.3
50°	247.5	247.5	234.3	211.2	349.9	336.7	366.4	392.8	419.2	458.8
52.5°	207.9	207.9	191.4	178.2	201.3	257.4	260.7	310.3	307.0	363.1
55°	105.6	108.9	155.1	155.1	135.3	211.2	214.5	250.8	257.4	303.7
57.5°	9.9	13.2	19.8	95.7	105.6	115.5	161.7	184.8	214.5	234.3
60°	3.3	3.3	6.6	13.2	62.7	79.2	102.3	122.1	148.5	194.7
62.5°	0.0	0.0	3.3	6.6	13.2	49.5	56.1	62.7	89.1	122.1
65°	0.0	0.0	3.3	3.3	6.6	16.5	23.1	39.6	56.1	75.9
67.5°	0.0	0.0	3.3	3.3	6.6	9.9	13.2	19.8	26.4	49.5
70°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	13.2	16.5	23.1
72.5°	0.0	0.0	3.3	3.3	6.6	13.2	9.9	9.9	13.2	16.5
75°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	9.9	9.9	9.9
77.5°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	9.9	6.6	6.6
80°	0.0	0.0	3.3	3.3	6.6	9.9	13.2	13.2	6.6	6.6
82.5°	0.0	0.0	3.3	6.6	6.6	16.5	19.8	16.5	6.6	3.3
85°	0.0	0.0	3.3	3.3	9.9	16.5	16.5	9.9	6.6	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	9.9	3.3	3.3
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°
25942.4	0°	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4	25942.4
25784.0	2.5°	25770.8	25972.1	26064.5	25968.8	25922.6	25856.6	25760.9	25694.9	25708.1
25183.3	5°	25127.2	25338.4	25411.0	25328.5	25259.2	25222.9	25206.4	25239.4	25325.2
23975.3	7.5°	23968.7	24104.0	24183.2	24143.6	24047.9	24156.8	24186.5	24166.7	24292.1
22341.5	10°	22348.1	22496.6	22424.0	22440.5	22328.3	22384.4	22367.9	22440.5	22566.0
20390.9	12.5°	20258.9	20400.8	20344.7	20334.8	20216.0	20321.6	20255.6	20334.8	20499.8
17935.3	15°	18064.0	18153.1	18116.8	18060.7	17955.1	17991.4	18196.0	18182.8	18255.4
15387.2	17.5°	15321.2	15750.3	15984.6	16034.1	15948.3	16020.9	16166.2	16129.9	16294.9
12700.6	20°	12677.5	13109.8	13687.4	14156.1	14166.0	14175.9	14268.3	14291.4	14433.4
10670.7	22.5°	10624.5	10931.5	11552.0	12172.5	12601.6	12690.7	12680.8	12713.8	12753.4
9056.7	25°	9033.6	9258.1	9825.8	10254.9	11007.4	11258.2	11330.8	11258.2	11281.3
7634.2	27.5°	7720.0	8063.3	8251.4	8710.2	9446.2	10027.1	10004.0	9961.1	9967.7
6644.0	30°	6640.7	7010.4	7287.6	7426.3	7980.8	8819.1	8904.9	8782.8	8786.1
5769.4	32.5°	5733.1	5848.6	6257.9	6370.1	6726.5	7489.0	7782.7	7690.3	7673.8
4614.2	35°	4749.5	4812.2	5000.4	5221.5	5432.7	6010.3	6495.5	6409.7	6452.6
3393.0	37.5°	3379.8	3637.2	3818.8	4000.3	4152.1	4515.2	5099.4	5020.2	5063.1
2402.8	40°	2383.0	2498.5	2812.1	2891.3	3115.7	3284.1	3779.1	3752.7	3805.5
1491.9	42.5°	1465.5	1548.0	1706.4	1782.3	1934.1	2029.8	2320.3	2353.3	2422.6
825.1	45°	831.7	868.0	977.0	1059.5	1171.7	1211.3	1313.6	1359.8	1399.4
640.3	47.5°	633.7	673.3	745.9	818.5	911.0	944.0	1016.6	1085.9	1122.2
495.1	50°	518.2	554.5	630.4	689.8	782.2	811.9	871.3	947.3	993.5
376.3	52.5°	392.8	445.6	538.0	600.7	696.4	732.7	788.8	864.7	907.7
310.3	55°	323.5	363.1	445.6	531.4	620.5	670.0	706.3	798.7	844.9
254.1	57.5°	277.2	307.0	359.8	462.1	538.0	610.6	640.3	726.1	772.3
201.3	60°	211.2	257.4	303.7	382.9	468.7	544.6	577.6	653.5	689.8
145.2	62.5°	174.9	204.6	264.0	307.0	402.7	481.9	514.9	584.2	610.6
95.7	65°	122.1	165.0	221.1	247.5	336.7	412.6	458.8	511.6	538.0
56.1	67.5°	72.6	122.1	174.9	211.2	273.9	349.9	399.4	448.9	472.0
33.0	70°	46.2	95.7	138.6	178.2	214.5	287.1	346.6	389.5	379.6
19.8	72.5°	26.4	59.4	102.3	145.2	178.2	240.9	297.1	330.1	234.3
13.2	75°	16.5	42.9	85.8	118.8	145.2	191.4	244.2	250.8	145.2
6.6	77.5°	13.2	33.0	66.0	95.7	99.0	141.9	171.6	194.7	108.9
6.6	80°	6.6	26.4	56.1	79.2	62.7	99.0	132.0	151.8	85.8
3.3	82.5°	6.6	16.5	42.9	56.1	46.2	75.9	95.7	108.9	72.6
3.3	85°	3.3	13.2	23.1	33.0	33.0	49.5	42.9	52.8	46.2
3.3	87.5°	3.3	6.6	13.2	16.5	13.2	19.8	23.1	23.1	19.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25942.4
25886.3
25503.5
24417.6
22615.5
20529.5
18271.9
16268.5
14403.7
12680.8
11245.0
9977.6
8789.4
7713.4
6492.2
5099.4
3825.4
2501.8
1396.1
1138.7
1013.3
937.4
858.1
792.1
696.4
613.9
538.0
468.7
349.9
207.9
135.3
108.9
89.1
79.2
46.2
16.5
0.0

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