

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: P638098

Luminaire Tested: **IFLD-L-SA8C-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32590.6 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 420.3
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

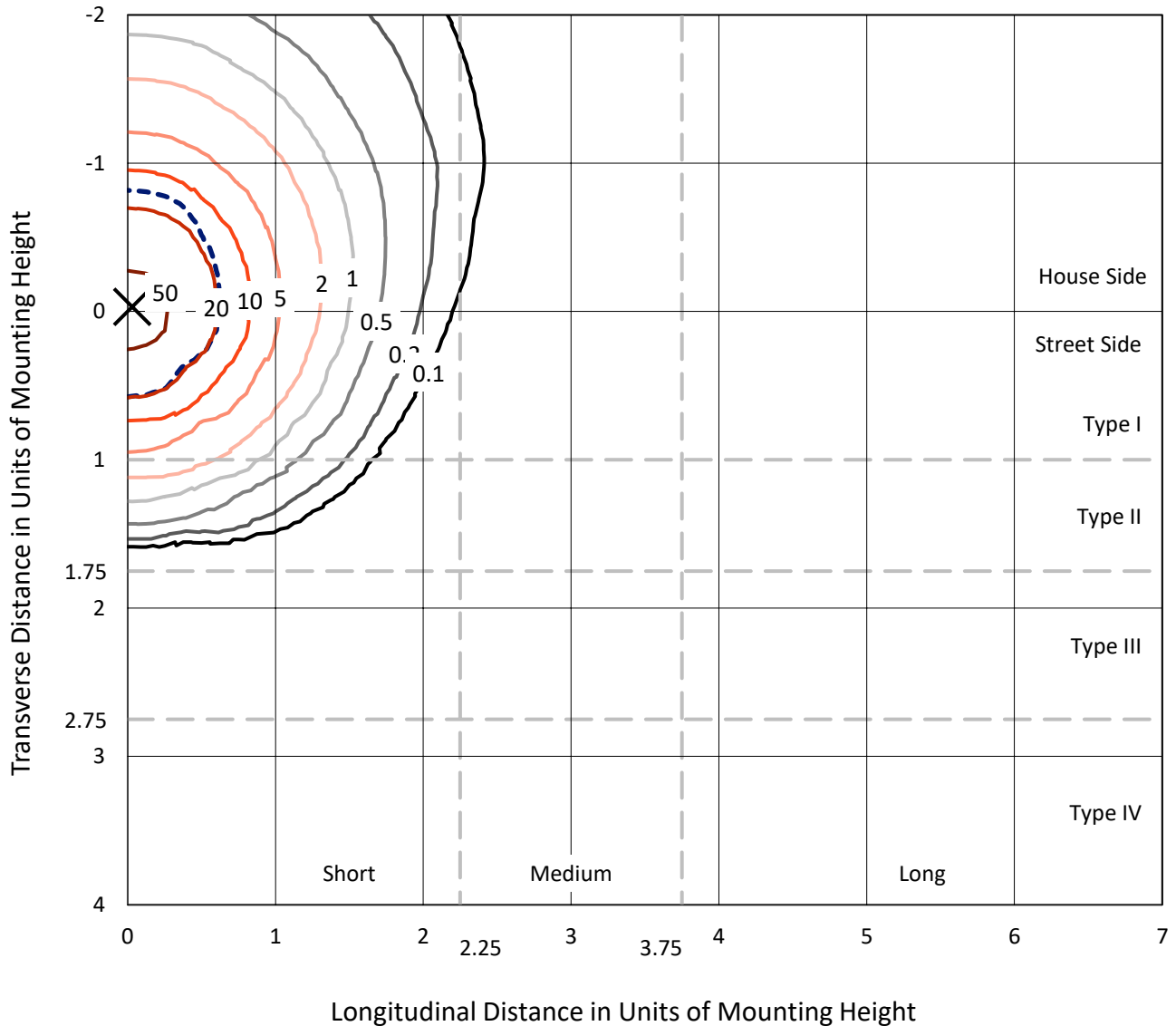




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Iso-Footcandle Lines of Horizontal Illumination

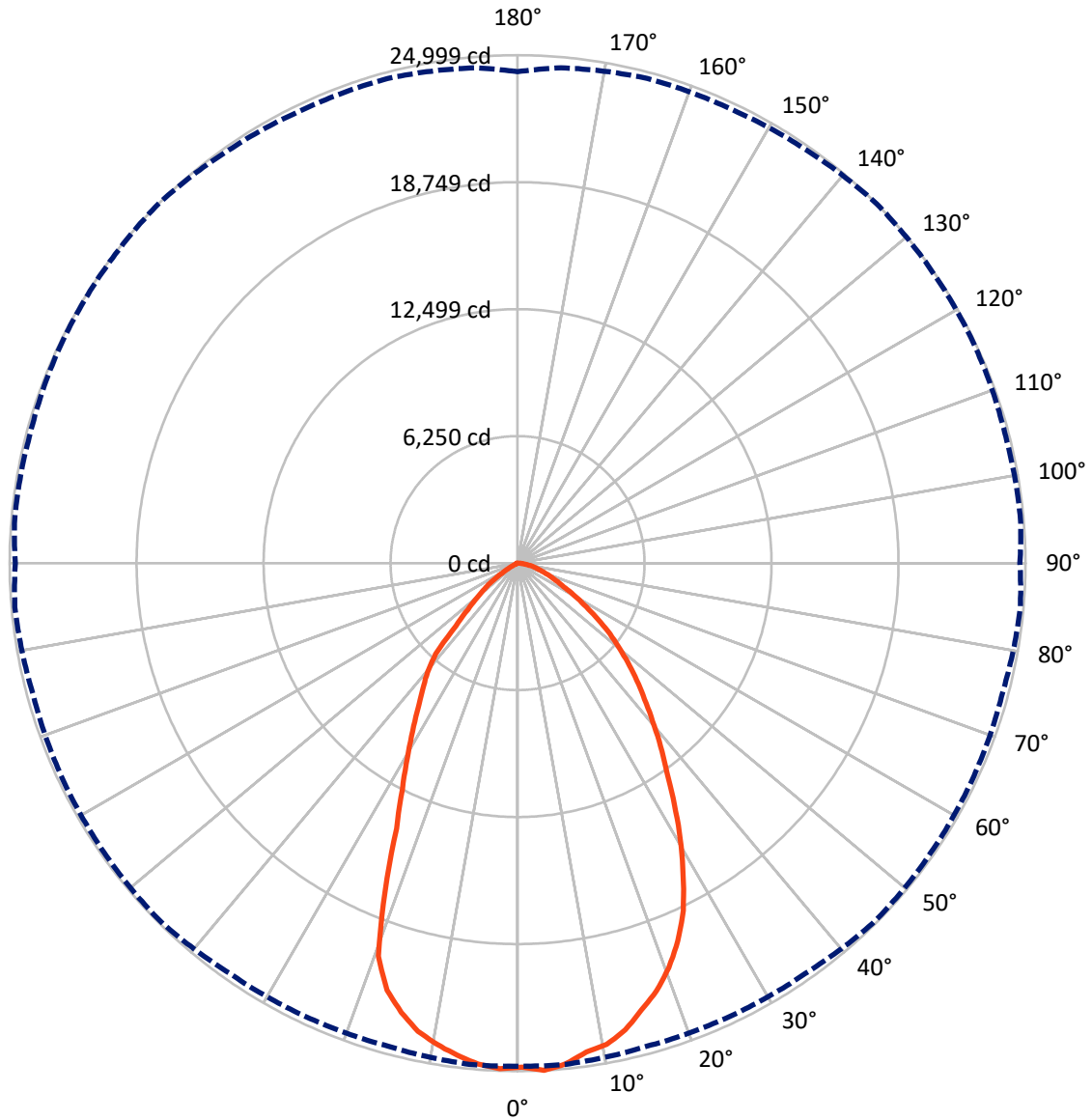
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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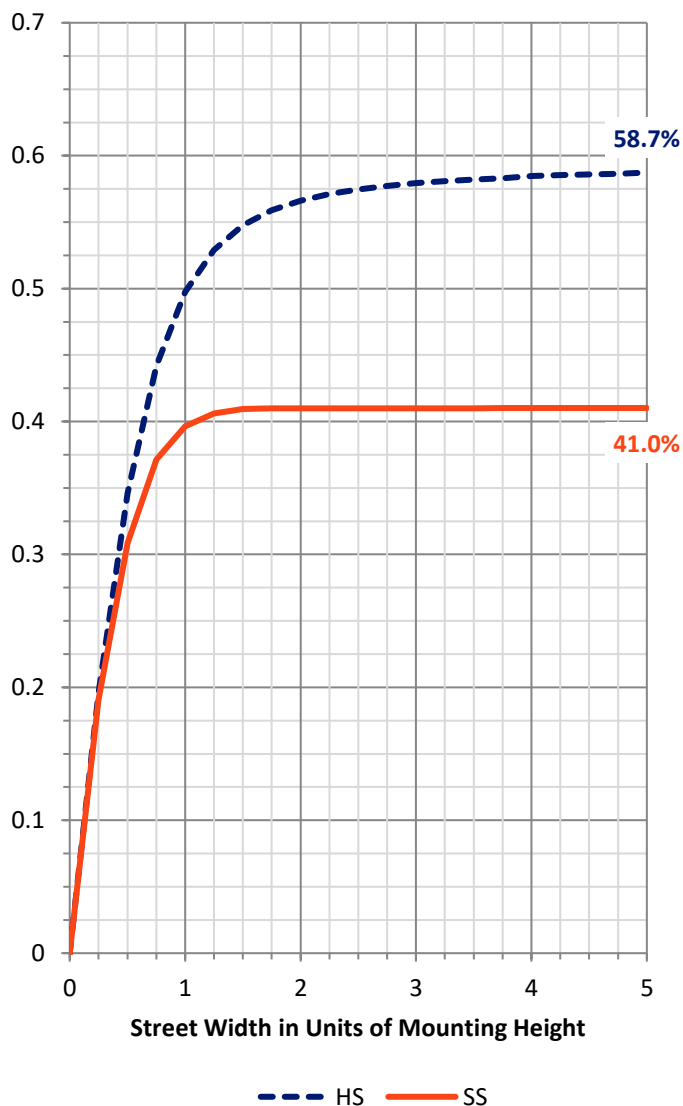
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19301.8	0.0	19301.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13288.8	0.0	13288.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	32590.6	0.0	32590.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2326.0	7.1
10°-20°	6237.2	19.1
20°-30°	7606.7	23.3
30°-40°	6944.8	21.3
40°-50°	5018.8	15.4
50°-60°	2740.3	8.4
60°-70°	1133.0	3.5
70°-80°	458.9	1.4
80°-90°	124.8	0.4
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°	32590.6	100.0
0°-180°	32590.6	100.0



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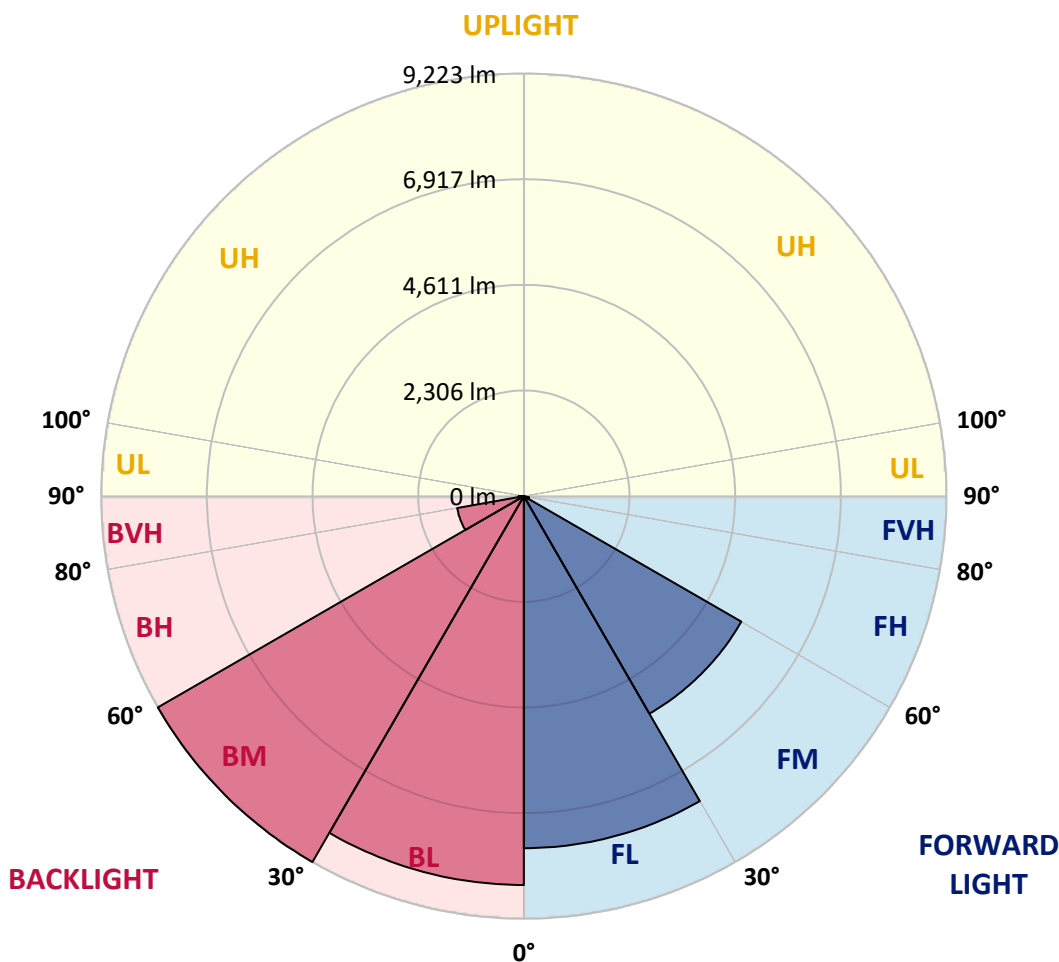
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7682.8	23.6			
FM (30°-60°)	5481.1	16.8			
FH (60°-80°)	114.8	0.4			G0/660
FVH (80°-90°)	10.0	0.0			G1/100
BL (0°-30°)	8487.0	26.0	B5		
BM (30°-60°)	9222.9	28.3	B5		
BH (60°-80°)	1477.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	114.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3
2.5°	24755.4	24787.5	24613.1	24631.5	24663.6	24897.7	24838.0	24783.0	24704.9	24838.0
5°	24723.3	24741.6	24558.1	24493.8	24521.4	24732.5	24539.7	24539.7	24521.4	24498.4
7.5°	24475.5	24484.6	24342.4	24227.6	24301.1	24397.4	24255.2	24324.0	24223.0	24301.1
10°	24103.7	24044.1	23874.2	23842.1	23924.7	24016.5	23920.1	23984.4	23892.6	23952.3
12.5°	23557.6	23465.8	23328.1	23286.8	23429.1	23553.0	23475.0	23438.2	23318.9	23465.8
15°	21451.0	21382.2	21694.3	22240.4	22731.5	22837.0	22754.4	22791.1	22543.3	22584.6
17.5°	17655.6	17527.1	17862.1	19156.3	21001.3	21974.2	21900.8	21662.1	21295.0	21377.6
20°	16044.7	16008.0	15971.2	16278.7	17568.4	20519.4	20620.3	20014.5	19491.3	19376.6
22.5°	15136.0	15122.2	15085.5	15154.3	15493.9	17389.4	18545.9	17986.0	17637.2	17605.1
25°	14305.3	14282.3	14172.2	14259.4	14259.4	14369.5	15851.9	16191.5	15884.0	15847.3
27.5°	13460.8	13419.5	13401.2	13442.5	13231.3	12487.9	12864.2	14521.0	14360.3	14369.5
30°	12547.5	12533.7	12483.3	12570.5	11918.8	10996.3	10757.6	13006.5	13038.6	13029.4
32.5°	11189.0	11248.7	11478.2	11574.6	10500.6	9738.8	9339.5	11253.3	11909.6	11895.8
35°	8127.9	8127.9	8876.0	10266.6	9201.8	8628.1	8412.4	9541.4	10794.4	10840.2
37.5°	6682.2	6705.2	6852.0	7485.4	7939.7	7737.8	7673.5	8031.5	9362.4	9435.9
40°	6012.2	6012.2	6012.2	5750.6	5736.8	6971.4	6934.6	6819.9	8086.6	8247.2
42.5°	5401.8	5415.5	5424.7	4763.8	4396.7	6025.9	5943.3	5768.9	6943.8	7132.0
45°	4773.0	4796.0	4823.5	3983.6	3823.0	4337.0	5030.0	4837.3	5814.8	6058.1
47.5°	2914.3	2951.0	3575.2	3377.8	3396.2	3345.7	4103.0	4070.8	4768.4	5112.6
50°	1968.9	1982.6	2042.3	2143.3	2914.3	2629.7	2905.1	3368.6	3621.1	4144.3
52.5°	1652.2	1675.1	1528.3	1390.6	1913.8	2056.1	2028.5	2501.2	2602.2	3249.3
55°	1161.1	1234.6	1165.7	1151.9	1087.7	1597.1	1537.5	1923.0	1987.2	2469.1
57.5°	119.3	137.7	238.7	858.2	711.4	904.1	1096.9	1409.0	1473.2	1822.0
60°	9.2	9.2	22.9	119.3	518.6	541.6	757.3	867.4	991.3	1271.3
62.5°	0.0	4.6	9.2	18.4	82.6	289.1	380.9	454.4	596.6	821.5
65°	0.0	0.0	4.6	13.8	18.4	110.1	146.9	238.7	325.8	509.4
67.5°	0.0	0.0	4.6	9.2	13.8	27.5	50.5	87.2	174.4	289.1
70°	0.0	0.0	4.6	9.2	13.8	22.9	36.7	55.1	78.0	156.0
72.5°	0.0	0.0	4.6	4.6	9.2	22.9	27.5	36.7	55.1	78.0
75°	0.0	0.0	4.6	4.6	13.8	27.5	22.9	27.5	36.7	50.5
77.5°	0.0	0.0	4.6	9.2	13.8	27.5	22.9	27.5	27.5	32.1
80°	0.0	0.0	4.6	9.2	18.4	32.1	27.5	27.5	22.9	22.9
82.5°	0.0	0.0	4.6	13.8	18.4	41.3	41.3	36.7	18.4	13.8
85°	0.0	0.0	9.2	18.4	27.5	45.9	45.9	36.7	13.8	9.2
87.5°	0.0	0.0	9.2	13.8	22.9	32.1	45.9	36.7	13.8	4.6
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°
24801.3	0°	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3	24801.3
24723.3	2.5°	24847.2	24819.7	24911.5	24948.2	24998.7	24805.9	24686.6	24691.2	24470.9
24443.3	5°	24590.2	24594.8	24714.1	24704.9	24755.4	24649.9	24604.0	24525.9	24333.2
24089.9	7.5°	24264.3	24223.0	24337.8	24425.0	24296.5	24369.9	24264.3	24301.1	24186.3
23777.9	10°	24011.9	23915.6	24021.1	24080.8	24085.4	24011.9	23911.0	23814.6	23773.3
23291.4	12.5°	23452.0	23328.1	23507.1	23589.7	23575.9	23433.7	23318.9	23341.9	23208.8
22437.8	15°	22681.0	22685.6	22814.1	22892.1	22818.7	22786.5	22795.7	22740.7	22625.9
21258.3	17.5°	21501.5	21570.3	21910.0	22098.1	22139.4	22075.2	22043.1	21978.8	21864.1
19376.6	20°	19537.2	19950.3	20556.1	21138.9	21253.7	21235.3	21120.6	21093.0	21028.8
17513.3	22.5°	17811.6	18119.1	18821.3	19730.0	20198.1	20244.0	20106.3	20065.0	19996.2
15847.3	25°	16026.3	16356.7	16990.1	17976.8	18945.2	19142.5	19119.6	18995.7	18922.2
14369.5	27.5°	14521.0	14851.4	15425.1	16315.4	17352.7	17986.0	18045.7	17848.3	17843.7
13052.4	30°	13162.5	13616.9	14052.9	14778.0	15783.1	16733.1	16834.1	16696.4	16710.1
11845.3	32.5°	12097.8	12474.1	12845.8	13332.3	14167.6	15273.6	15668.3	15539.8	15489.3
10840.2	35°	11010.1	11267.1	11648.0	12093.2	12662.3	13759.1	14443.0	14346.6	14296.1
9481.8	37.5°	9770.9	10211.5	10486.9	10987.1	11432.3	12304.3	13268.1	13254.3	13148.7
8325.2	40°	8499.6	8963.2	9380.8	9885.6	10229.9	10922.9	11992.2	11987.6	12001.4
7127.4	42.5°	7347.7	7774.5	8279.3	8830.1	9160.5	9665.4	10812.7	10877.0	10955.0
6140.7	45°	6305.9	6691.4	7159.5	7829.6	8228.9	8518.0	9536.8	9830.6	9826.0
5259.5	47.5°	5369.6	5732.2	6126.9	6778.6	7288.0	7549.6	8394.1	8811.7	8784.2
4314.1	50°	4506.8	4828.1	5241.1	5713.8	6397.7	6627.1	7255.9	7806.6	7765.3
3437.5	52.5°	3625.7	4070.8	4419.6	4851.0	5571.6	5796.5	6282.9	6819.9	6787.8
2579.3	55°	2827.1	3258.5	3680.7	4052.5	4658.3	4993.3	5342.1	5892.8	5883.7
2019.4	57.5°	2138.7	2611.4	3010.7	3364.1	3845.9	4259.0	4539.0	5039.2	5103.5
1381.4	60°	1583.4	1945.9	2377.3	2772.0	3152.9	3579.8	3767.9	4259.0	4286.5
945.4	62.5°	1078.5	1477.8	1900.0	2258.0	2542.5	2983.1	3152.9	3556.8	3607.3
605.8	65°	748.1	1005.1	1487.0	1744.0	2092.8	2469.1	2638.9	2960.2	3061.2
348.8	67.5°	495.7	716.0	1161.1	1395.2	1739.4	1996.4	2212.1	2473.7	2583.9
220.3	70°	270.8	527.8	830.7	1101.5	1399.8	1647.6	1858.7	2069.8	2166.2
101.0	72.5°	183.6	353.4	578.3	872.0	1129.0	1372.2	1560.4	1716.4	1721.0
59.7	75°	91.8	238.7	440.6	674.6	881.2	1119.8	1289.6	1381.4	1271.3
36.7	77.5°	55.1	174.4	358.0	541.6	716.0	904.1	1000.5	1051.0	872.0
27.5	80°	32.1	123.9	280.0	431.4	495.7	665.5	757.3	771.0	582.9
18.4	82.5°	22.9	91.8	220.3	316.7	302.9	468.1	569.1	550.7	371.7
13.8	85°	13.8	64.3	137.7	197.3	183.6	307.5	330.4	339.6	215.7
9.2	87.5°	9.2	36.7	73.4	105.6	87.2	133.1	133.1	160.6	105.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24801.3
24186.3
24287.3
23993.6
23589.7
23094.0
22511.2
21813.6
20881.9
19977.8
18844.2
17834.5
16641.3
15493.9
14227.3
13235.9
12001.4
10913.7
9835.2
8793.4
7802.0
6856.6
5906.6
5075.9
4327.8
3616.5
3038.2
2570.1
2129.5
1679.7
1188.7
839.9
546.1
344.2
197.3
91.8
0.0

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