

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: P638287

Luminaire Tested: **IFLD-S-SA6D-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27944.9 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

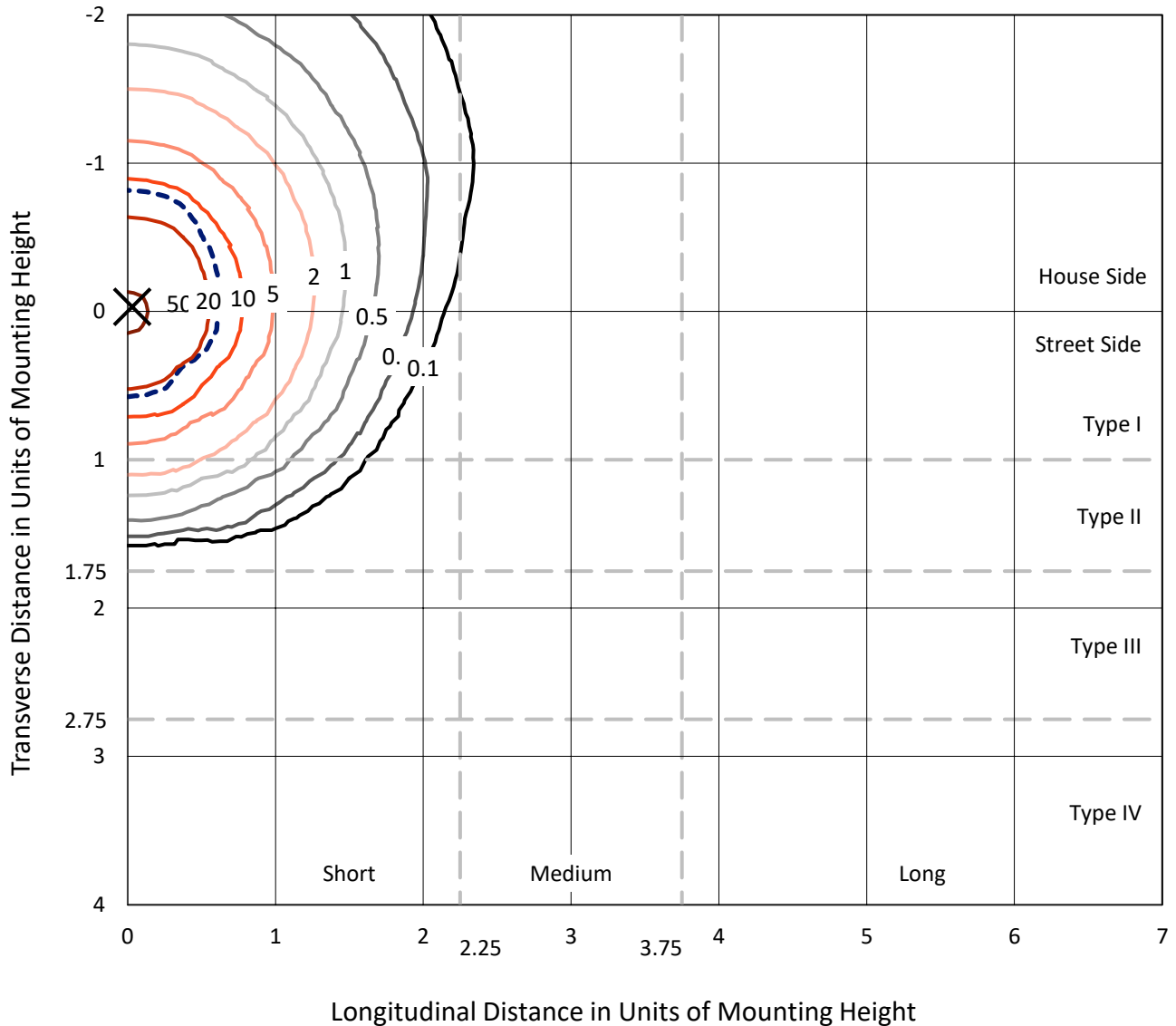
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

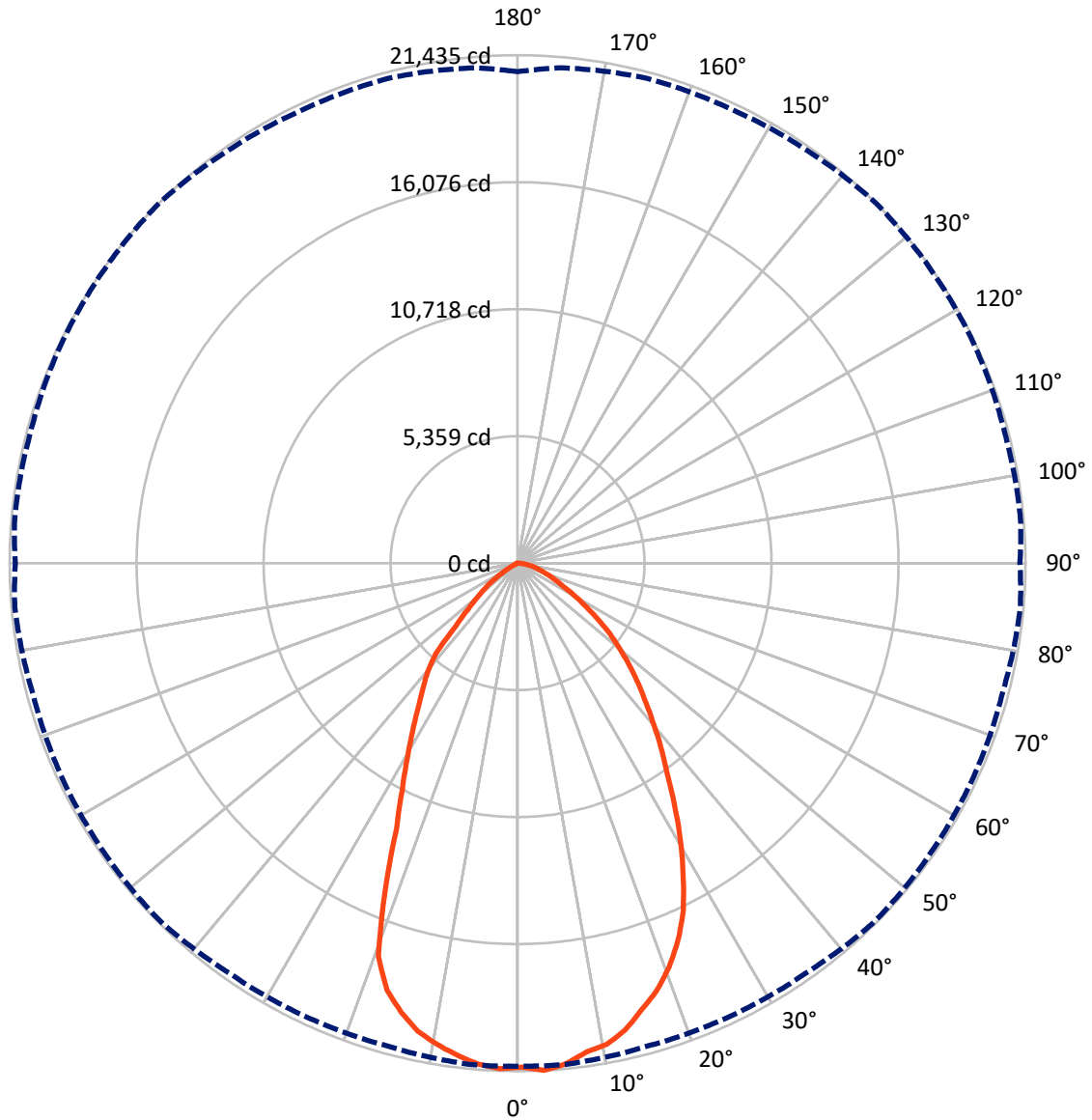
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53.2 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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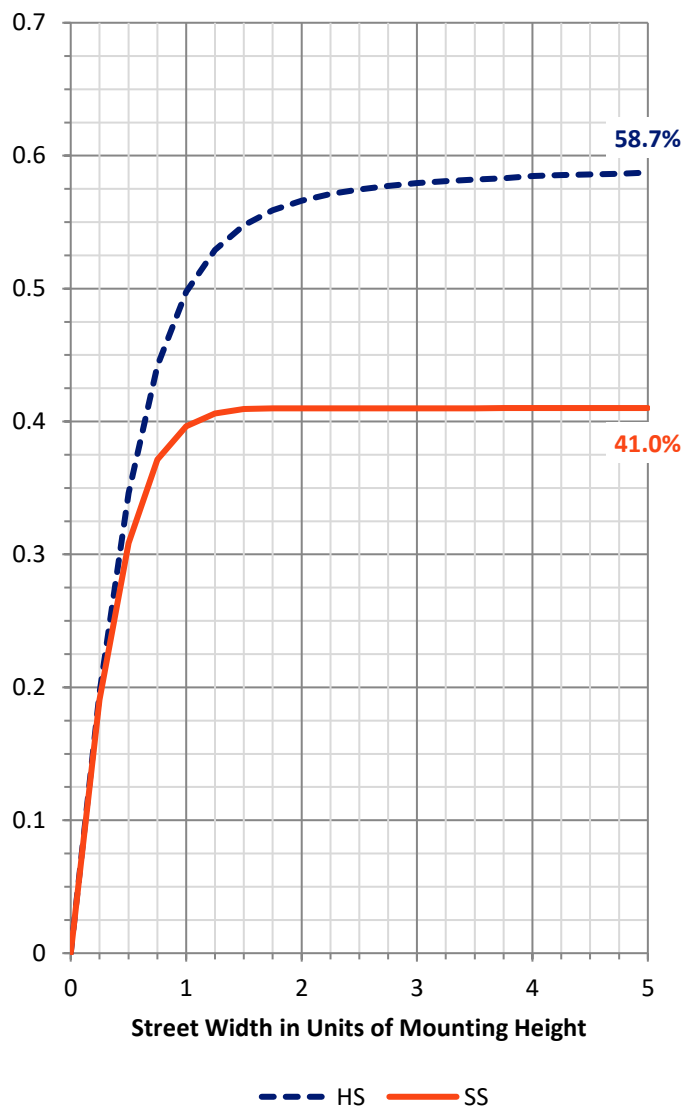
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16550.4	0.0	16550.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11394.5	0.0	11394.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	27944.9	0.0	27944.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1994.4	7.1
10°-20°	5348.1	19.1
20°-30°	6522.4	23.3
30°-40°	5954.8	21.3
40°-50°	4303.4	15.4
50°-60°	2349.7	8.4
60°-70°	971.5	3.5
70°-80°	393.5	1.4
80°-90°	107.0	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°	27944.9	100.0
0°-180°	27944.9	100.0



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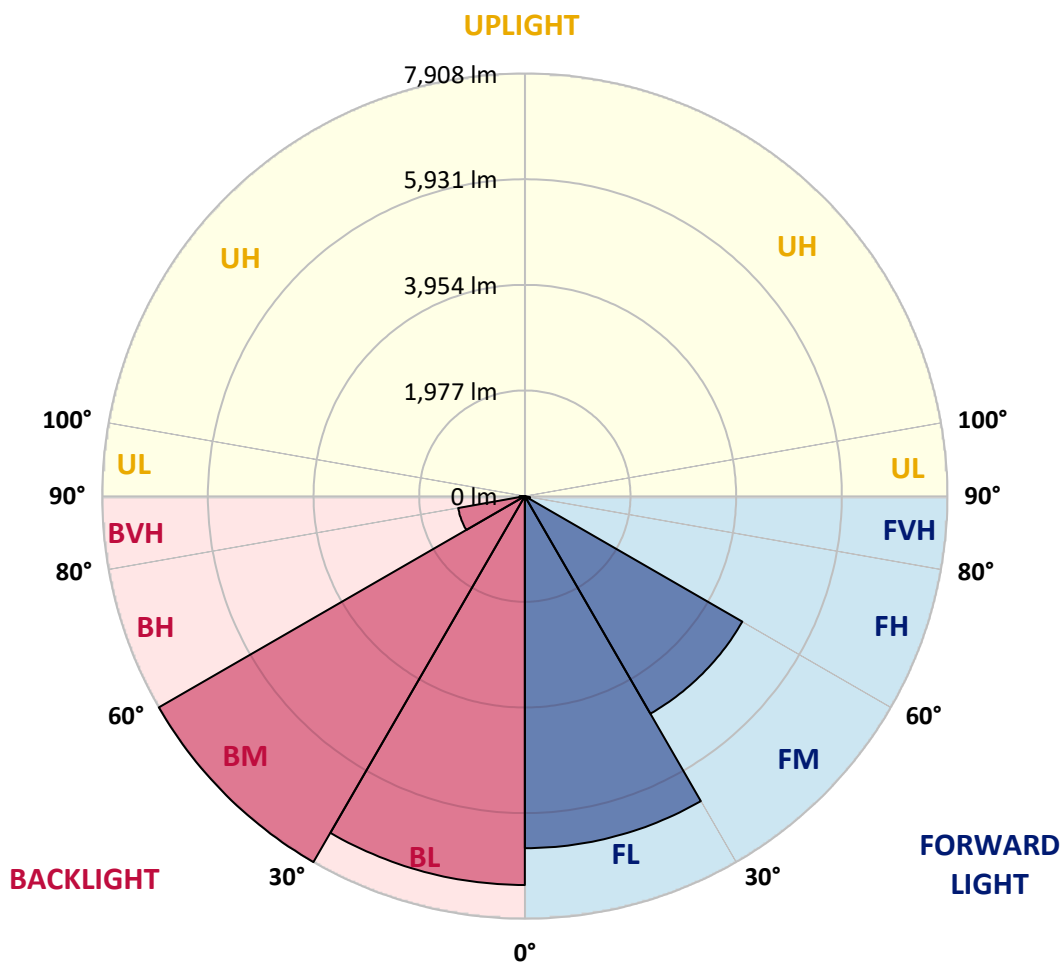
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6587.6	23.6			
FM (30°-60°)	4699.8	16.8			
FH (60°-80°)	98.5	0.4			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	7277.3	26.0	B5		
BM (30°-60°)	7908.2	28.3	B4/8500		
BH (60°-80°)	1266.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	98.5	0.4			G1/100
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°	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0
2.5°	21226.6	21254.2	21104.6	21120.4	21147.9	21348.6	21297.5	21250.2	21183.3	21297.5
5°	21199.1	21214.8	21057.4	21002.3	21025.9	21207.0	21041.7	21041.7	21025.9	21006.3
7.5°	20986.6	20994.5	20872.5	20774.1	20837.0	20919.7	20797.7	20856.7	20770.1	20837.0
10°	20667.8	20616.7	20471.1	20443.5	20514.4	20593.1	20510.4	20565.5	20486.8	20538.0
12.5°	20199.5	20120.8	20002.8	19967.4	20089.4	20195.6	20128.7	20097.2	19994.9	20120.8
15°	18393.3	18334.2	18601.8	19070.1	19491.2	19581.7	19510.9	19542.4	19329.9	19365.3
17.5°	15138.8	15028.6	15315.9	16425.7	18007.6	18841.9	18778.9	18574.3	18259.5	18330.3
20°	13757.6	13726.1	13694.6	13958.3	15064.1	17594.4	17681.0	17161.5	16712.9	16614.5
22.5°	12978.4	12966.6	12935.1	12994.1	13285.3	14910.6	15902.3	15422.2	15123.1	15095.5
25°	12266.1	12246.4	12152.0	12226.8	12226.8	12321.2	13592.3	13883.5	13619.8	13588.4
27.5°	11542.0	11506.6	11490.9	11526.3	11345.3	10707.8	11030.5	12451.1	12313.3	12321.2
30°	10758.9	10747.1	10703.8	10778.6	10219.8	9428.8	9224.2	11152.4	11180.0	11172.1
32.5°	9594.1	9645.3	9842.0	9924.7	9003.8	8350.6	8008.2	9649.2	10211.9	10200.1
35°	6969.3	6969.3	7610.7	8803.1	7890.1	7398.2	7213.3	8181.3	9255.7	9295.0
37.5°	5729.7	5749.4	5875.3	6418.4	6807.9	6634.8	6579.7	6886.7	8027.9	8090.8
40°	5155.2	5155.2	5155.2	4930.8	4919.0	5977.6	5946.1	5847.8	6933.9	7071.6
42.5°	4631.8	4643.6	4651.4	4084.8	3770.0	5167.0	5096.1	4946.6	5954.0	6115.3
45°	4092.6	4112.3	4135.9	3415.8	3278.0	3718.8	4313.0	4147.7	4985.9	5194.5
47.5°	2498.9	2530.4	3065.5	2896.3	2912.1	2868.8	3518.1	3490.5	4088.7	4383.8
50°	1688.2	1700.0	1751.2	1837.8	2498.9	2254.9	2491.0	2888.5	3104.9	3553.5
52.5°	1416.7	1436.4	1310.4	1192.4	1641.0	1763.0	1739.4	2144.7	2231.3	2786.1
55°	995.6	1058.6	999.5	987.7	932.6	1369.5	1318.3	1648.9	1704.0	2117.2
57.5°	102.3	118.1	204.6	735.9	610.0	775.2	940.5	1208.1	1263.2	1562.3
60°	7.9	7.9	19.7	102.3	444.7	464.4	649.3	743.8	850.0	1090.1
62.5°	0.0	3.9	7.9	15.7	70.8	247.9	326.6	389.6	511.6	704.4
65°	0.0	0.0	3.9	11.8	15.7	94.4	125.9	204.6	279.4	436.8
67.5°	0.0	0.0	3.9	7.9	11.8	23.6	43.3	74.8	149.5	247.9
70°	0.0	0.0	3.9	7.9	11.8	19.7	31.5	47.2	66.9	133.8
72.5°	0.0	0.0	3.9	3.9	7.9	19.7	23.6	31.5	47.2	66.9
75°	0.0	0.0	3.9	3.9	11.8	23.6	19.7	23.6	31.5	43.3
77.5°	0.0	0.0	3.9	7.9	11.8	23.6	19.7	23.6	23.6	27.5
80°	0.0	0.0	3.9	7.9	15.7	27.5	23.6	23.6	19.7	19.7
82.5°	0.0	0.0	3.9	11.8	15.7	35.4	35.4	31.5	15.7	11.8
85°	0.0	0.0	7.9	15.7	23.6	39.4	39.4	31.5	11.8	7.9
87.5°	0.0	0.0	7.9	11.8	19.7	27.5	39.4	31.5	11.8	3.9
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°
21266.0	0°	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0	21266.0
21199.1	2.5°	21305.3	21281.7	21360.4	21391.9	21435.2	21269.9	21167.6	21171.5	20982.7
20959.0	5°	21085.0	21088.9	21191.2	21183.3	21226.6	21136.1	21096.8	21029.9	20864.6
20656.0	7.5°	20805.6	20770.1	20868.5	20943.3	20833.1	20896.1	20805.6	20837.0	20738.7
20388.4	10°	20589.1	20506.5	20597.0	20648.2	20652.1	20589.1	20502.6	20419.9	20384.5
19971.3	12.5°	20109.0	20002.8	20156.3	20227.1	20215.3	20093.3	19994.9	20014.6	19900.5
19239.3	15°	19447.9	19451.8	19562.0	19628.9	19566.0	19538.4	19546.3	19499.1	19400.7
18228.0	17.5°	18436.6	18495.6	18786.8	18948.1	18983.6	18928.5	18900.9	18845.8	18747.4
16614.5	20°	16752.3	17106.4	17625.9	18125.7	18224.1	18208.3	18109.9	18086.3	18031.2
15016.8	22.5°	15272.6	15536.3	16138.4	16917.6	17319.0	17358.3	17240.2	17204.8	17145.8
13588.4	25°	13741.8	14025.2	14568.2	15414.3	16244.6	16413.8	16394.2	16287.9	16225.0
12321.2	27.5°	12451.1	12734.4	13226.3	13989.7	14879.1	15422.2	15473.3	15304.1	15300.2
11191.8	30°	11286.2	11675.8	12049.7	12671.4	13533.3	14347.9	14434.4	14316.4	14328.2
10156.8	32.5°	10373.3	10696.0	11014.7	11431.8	12148.1	13096.4	13434.9	13324.7	13281.4
9295.0	35°	9440.6	9661.0	9987.6	10369.3	10857.3	11797.8	12384.2	12301.5	12258.2
8130.2	37.5°	8378.1	8755.9	8992.0	9420.9	9802.7	10550.4	11376.8	11364.9	11274.4
7138.5	40°	7288.0	7685.5	8043.6	8476.5	8771.6	9365.8	10282.8	10278.8	10290.6
6111.4	42.5°	6300.3	6666.3	7099.2	7571.4	7854.7	8287.6	9271.4	9326.5	9393.4
5265.3	45°	5407.0	5737.6	6139.0	6713.5	7055.9	7303.8	8177.4	8429.3	8425.3
4509.8	47.5°	4604.2	4915.1	5253.5	5812.3	6249.1	6473.5	7197.5	7555.6	7532.0
3699.1	50°	3864.4	4139.9	4494.0	4899.4	5485.7	5682.5	6221.6	6693.8	6658.4
2947.5	52.5°	3108.8	3490.5	3789.6	4159.5	4777.4	4970.2	5387.3	5847.8	5820.2
2211.6	55°	2424.1	2794.0	3156.1	3474.8	3994.3	4281.5	4580.6	5052.8	5045.0
1731.5	57.5°	1833.8	2239.1	2581.5	2884.5	3297.7	3651.9	3891.9	4320.9	4376.0
1184.5	60°	1357.7	1668.5	2038.4	2376.9	2703.5	3069.5	3230.8	3651.9	3675.5
810.7	62.5°	924.8	1267.1	1629.2	1936.1	2180.1	2557.9	2703.5	3049.8	3093.1
519.5	65°	641.4	861.8	1275.0	1495.4	1794.5	2117.2	2262.8	2538.2	2624.8
299.1	67.5°	425.0	613.9	995.6	1196.3	1491.5	1711.8	1896.8	2121.1	2215.5
188.9	70°	232.2	452.6	712.3	944.5	1200.2	1412.7	1593.8	1774.8	1857.4
86.6	72.5°	157.4	303.0	495.8	747.7	968.1	1176.6	1338.0	1471.8	1475.7
51.2	75°	78.7	204.6	377.8	578.5	755.6	960.2	1105.8	1184.5	1090.1
31.5	77.5°	47.2	149.5	306.9	464.4	613.9	775.2	857.9	901.2	747.7
23.6	80°	27.5	106.3	240.0	369.9	425.0	570.6	649.3	661.1	499.8
15.7	82.5°	19.7	78.7	188.9	271.5	259.7	401.4	488.0	472.2	318.8
11.8	85°	11.8	55.1	118.1	169.2	157.4	263.7	283.3	291.2	185.0
7.9	87.5°	7.9	31.5	63.0	90.5	74.8	114.1	114.1	137.7	90.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21266.0
20738.7
20825.2
20573.4
20227.1
19802.1
19302.3
18704.2
17905.3
17130.1
16158.1
15292.3
14269.1
13285.3
12199.2
11349.2
10290.6
9358.0
8433.2
7539.9
6689.9
5879.2
5064.6
4352.4
3710.9
3101.0
2605.1
2203.7
1825.9
1440.3
1019.2
720.1
468.3
295.1
169.2
78.7
0.0

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