

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: P638097

Luminaire Tested: **IFLD-L-SA8B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638097
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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: 26180.2 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

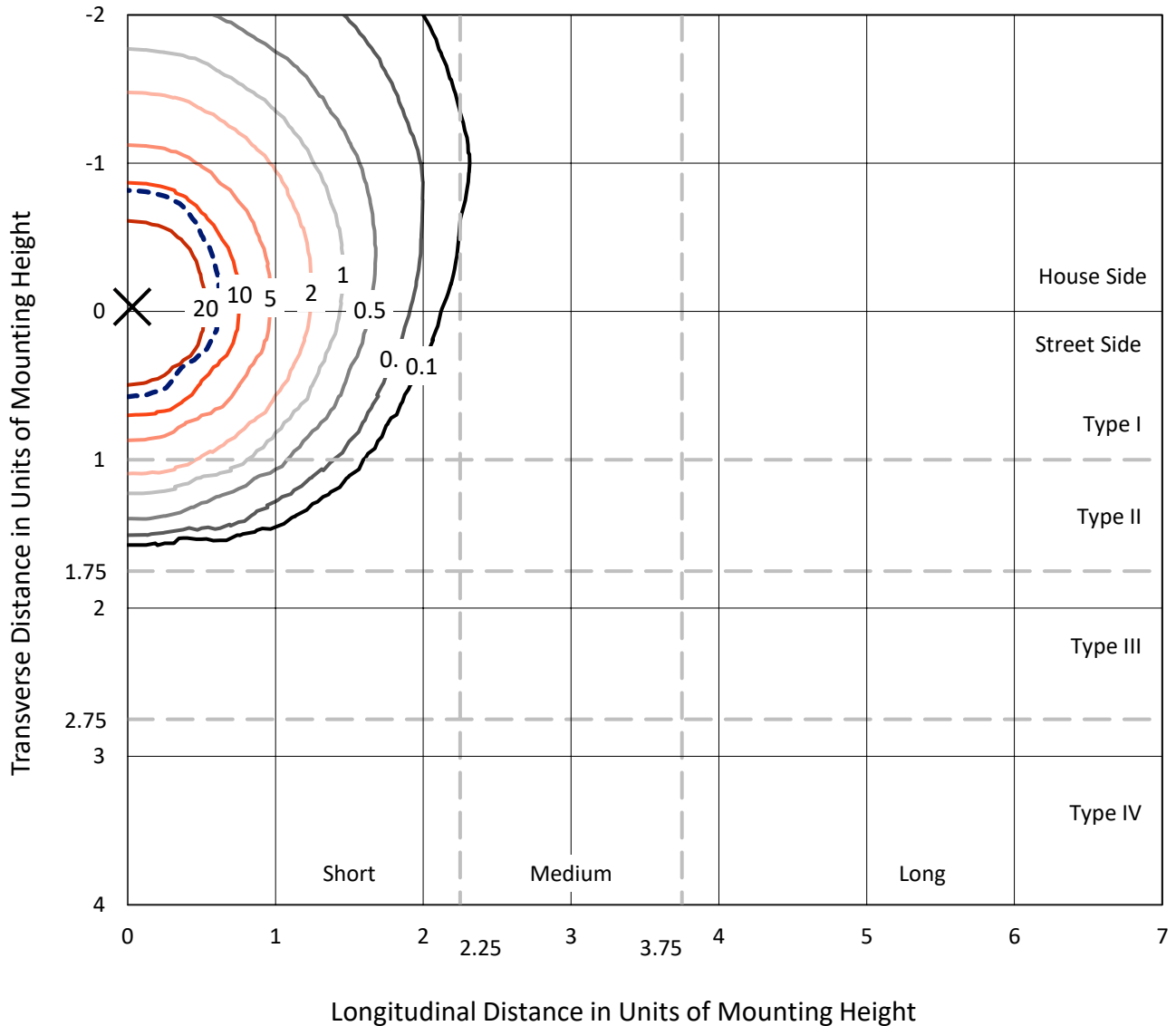
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

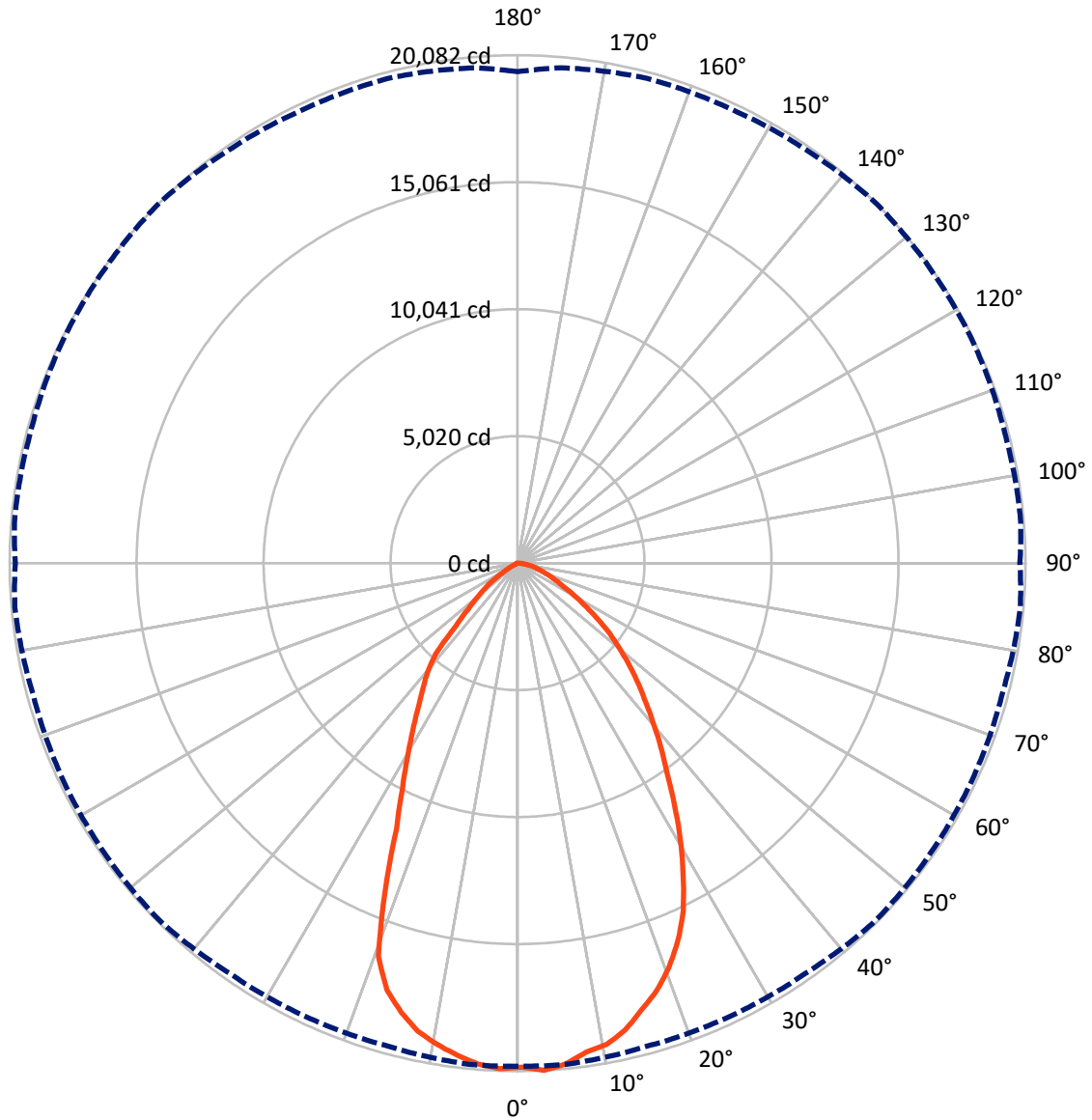
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.8 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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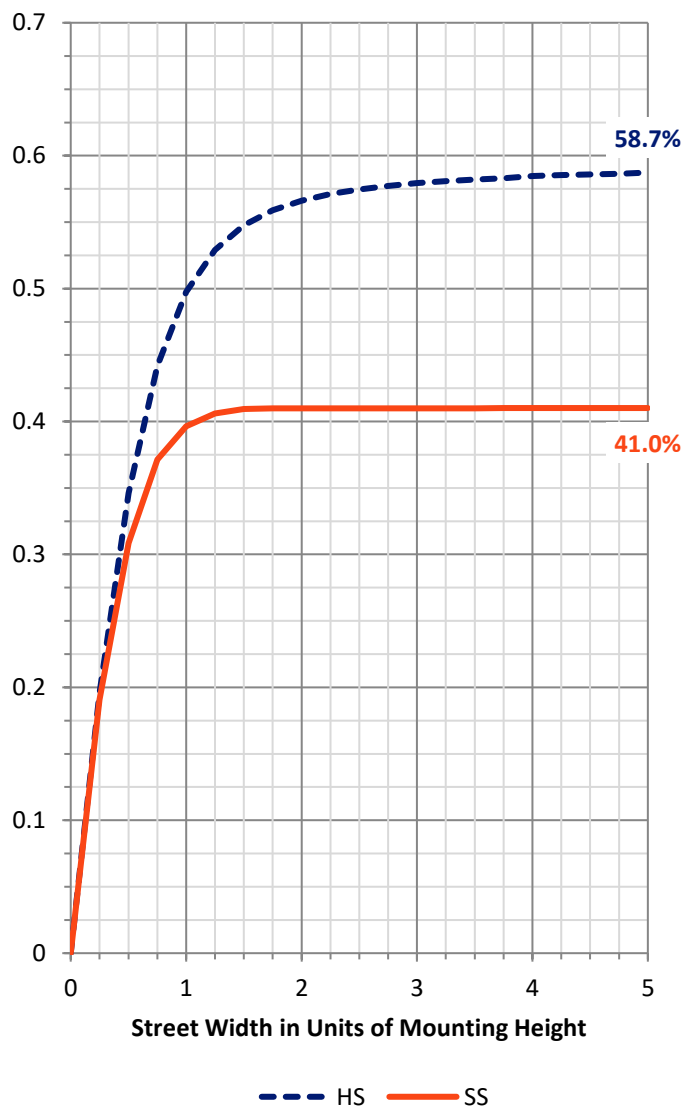
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15505.2	0.0	15505.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10675.0	0.0	10675.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	26180.2	0.0	26180.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1868.5	7.1
10°-20°	5010.4	19.1
20°-30°	6110.5	23.3
30°-40°	5578.8	21.3
40°-50°	4031.7	15.4
50°-60°	2201.3	8.4
60°-70°	910.2	3.5
70°-80°	368.6	1.4
80°-90°	100.3	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°	26180.2	100.0
0°-180°	26180.2	100.0



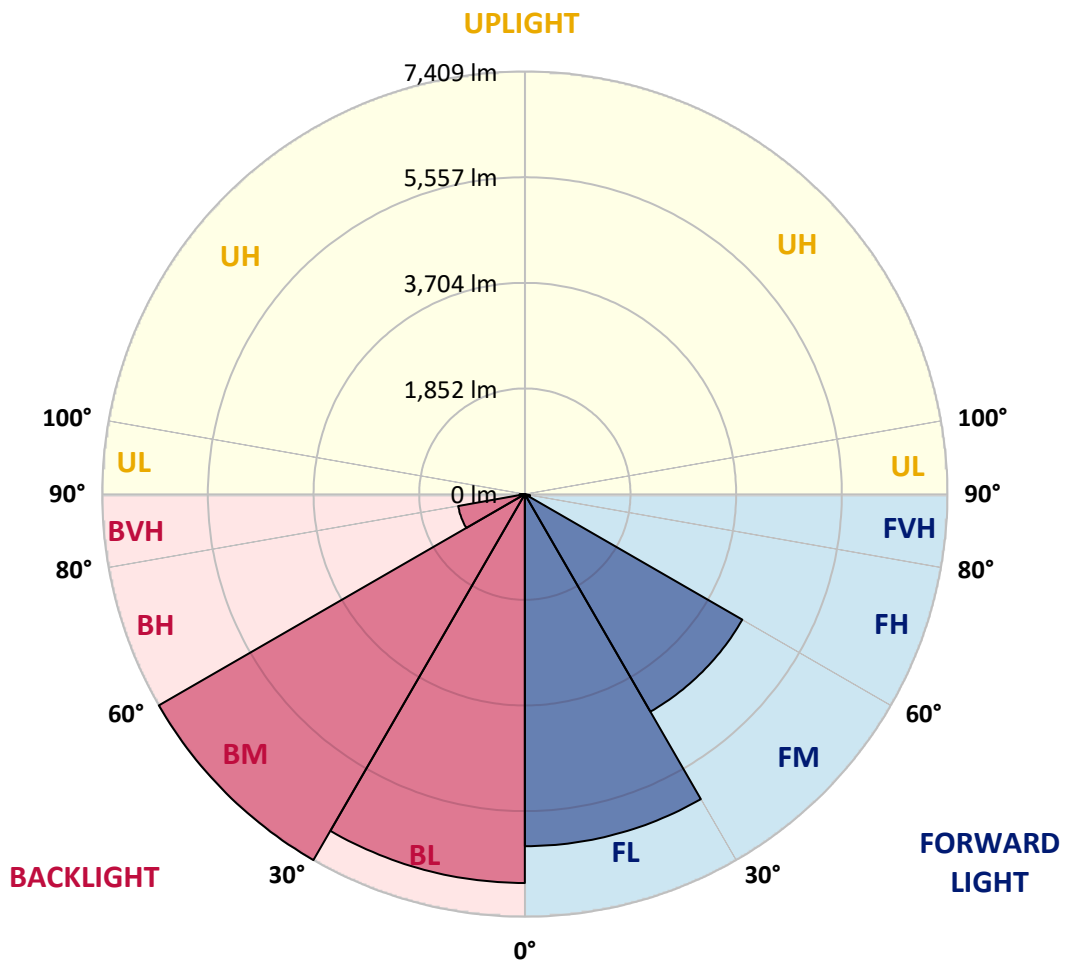
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6171.6	23.6			
FM (30°-60°)	4403.0	16.8			
FH (60°-80°)	92.3	0.4			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	6817.7	26.0	B5		
BM (30°-60°)	7408.8	28.3	B4/8500		
BH (60°-80°)	1186.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	92.2	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°	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0
2.5°	19886.2	19912.0	19771.9	19786.6	19812.4	20000.5	19952.5	19908.3	19845.6	19952.5
5°	19860.4	19875.1	19727.7	19676.0	19698.2	19867.7	19712.9	19712.9	19698.2	19679.7
7.5°	19661.3	19668.7	19554.4	19462.2	19521.2	19598.6	19484.3	19539.6	19458.5	19521.2
10°	19362.7	19314.7	19178.3	19152.5	19218.9	19292.6	19215.2	19266.8	19193.1	19241.0
12.5°	18923.9	18850.2	18739.6	18706.4	18820.7	18920.3	18857.6	18828.1	18732.2	18850.2
15°	17231.7	17176.4	17427.1	17865.9	18260.3	18345.1	18278.8	18308.3	18109.2	18142.4
17.5°	14182.8	14079.6	14348.7	15388.4	16870.4	17652.0	17593.0	17401.3	17106.4	17172.8
20°	12888.8	12859.3	12829.8	13076.8	14112.8	16483.3	16564.4	16077.8	15657.5	15565.3
22.5°	12158.8	12147.7	12118.3	12173.6	12446.4	13969.0	14898.0	14448.3	14168.1	14142.3
25°	11491.5	11473.1	11384.6	11454.6	11454.6	11543.1	12733.9	13006.8	12759.7	12730.3
27.5°	10813.2	10780.0	10765.2	10798.4	10628.8	10031.6	10333.9	11664.8	11535.8	11543.1
30°	10079.5	10068.4	10027.9	10097.9	9574.4	8833.4	8641.7	10448.2	10474.0	10466.6
32.5°	8988.2	9036.2	9220.5	9297.9	8435.2	7823.2	7502.5	9039.8	9567.0	9556.0
35°	6529.2	6529.2	7130.1	8247.2	7391.9	6931.0	6757.8	7664.7	8671.2	8708.0
37.5°	5367.9	5386.3	5504.3	6013.0	6378.0	6215.8	6164.2	6451.8	7520.9	7579.9
40°	4829.6	4829.6	4829.6	4619.5	4608.4	5600.1	5570.6	5478.5	6496.0	6625.0
42.5°	4339.3	4350.3	4357.7	3826.8	3531.9	4840.7	4774.3	4634.2	5578.0	5729.2
45°	3834.2	3852.6	3874.7	3200.1	3071.0	3484.0	4040.6	3885.8	4671.1	4866.5
47.5°	2341.1	2370.6	2872.0	2713.4	2728.2	2687.6	3295.9	3270.1	3830.5	4107.0
50°	1581.6	1592.7	1640.6	1721.7	2341.1	2112.5	2333.7	2706.1	2908.8	3329.1
52.5°	1327.2	1345.7	1227.7	1117.1	1537.4	1651.7	1629.5	2009.3	2090.4	2610.2
55°	932.7	991.7	936.4	925.4	873.8	1283.0	1235.1	1544.7	1596.4	1983.5
57.5°	95.9	110.6	191.7	689.4	571.4	726.3	881.1	1131.8	1183.4	1463.6
60°	7.4	7.4	18.4	95.9	416.6	435.0	608.3	696.8	796.3	1021.2
62.5°	0.0	3.7	7.4	14.7	66.4	232.3	306.0	365.0	479.3	659.9
65°	0.0	0.0	3.7	11.1	14.7	88.5	118.0	191.7	261.8	409.2
67.5°	0.0	0.0	3.7	7.4	11.1	22.1	40.6	70.0	140.1	232.3
70°	0.0	0.0	3.7	7.4	11.1	18.4	29.5	44.2	62.7	125.3
72.5°	0.0	0.0	3.7	3.7	7.4	18.4	22.1	29.5	44.2	62.7
75°	0.0	0.0	3.7	3.7	11.1	22.1	18.4	22.1	29.5	40.6
77.5°	0.0	0.0	3.7	7.4	11.1	22.1	18.4	22.1	22.1	25.8
80°	0.0	0.0	3.7	7.4	14.7	25.8	22.1	22.1	18.4	18.4
82.5°	0.0	0.0	3.7	11.1	14.7	33.2	33.2	29.5	14.7	11.1
85°	0.0	0.0	7.4	14.7	22.1	36.9	36.9	29.5	11.1	7.4
87.5°	0.0	0.0	7.4	11.1	18.4	25.8	36.9	29.5	11.1	3.7
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°
19923.0	0°	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0	19923.0
19860.4	2.5°	19959.9	19937.8	20011.5	20041.0	20081.6	19926.7	19830.9	19834.6	19657.6
19635.5	5°	19753.5	19757.1	19853.0	19845.6	19886.2	19801.4	19764.5	19701.8	19547.0
19351.6	7.5°	19491.7	19458.5	19550.7	19620.7	19517.5	19576.5	19491.7	19521.2	19429.0
19100.9	10°	19288.9	19211.5	19296.3	19344.2	19347.9	19288.9	19207.8	19130.4	19097.2
18710.1	12.5°	18839.2	18739.6	18883.4	18949.8	18938.7	18824.4	18732.2	18750.7	18643.8
18024.4	15°	18219.8	18223.5	18326.7	18389.4	18330.4	18304.6	18311.9	18267.7	18175.5
17076.9	17.5°	17272.3	17327.6	17600.4	17751.6	17784.7	17733.1	17707.3	17655.7	17563.5
15565.3	20°	15694.4	16026.2	16512.8	16981.0	17073.2	17058.5	16966.3	16944.2	16892.6
14068.5	22.5°	14308.2	14555.2	15119.2	15849.2	16225.3	16262.1	16151.5	16118.3	16063.0
12730.3	25°	12874.0	13139.5	13648.2	14440.9	15218.8	15377.3	15358.9	15259.3	15200.4
11543.1	27.5°	11664.8	11930.2	12391.1	13106.3	13939.5	14448.3	14496.2	14337.7	14334.0
10485.0	30°	10573.5	10938.5	11288.7	11871.2	12678.6	13441.8	13522.9	13412.3	13423.4
9515.4	32.5°	9718.2	10020.5	10319.1	10709.9	11380.9	12269.4	12586.5	12483.2	12442.7
8708.0	35°	8844.4	9050.9	9356.9	9714.5	10171.7	11052.8	11602.1	11524.7	11484.1
7616.8	37.5°	7849.0	8203.0	8424.2	8826.0	9183.6	9884.1	10658.3	10647.3	10562.5
6687.7	40°	6827.8	7200.2	7535.7	7941.2	8217.7	8774.4	9633.4	9629.7	9640.8
5725.5	42.5°	5902.4	6245.3	6650.8	7093.3	7358.7	7764.2	8685.9	8737.5	8800.2
4932.8	45°	5065.6	5375.2	5751.3	6289.5	6610.3	6842.6	7661.0	7897.0	7893.3
4225.0	47.5°	4313.5	4604.7	4921.8	5445.3	5854.5	6064.7	6743.0	7078.5	7056.4
3465.5	50°	3620.4	3878.4	4210.2	4590.0	5139.3	5323.6	5828.7	6271.1	6237.9
2761.4	52.5°	2912.5	3270.1	3550.3	3896.9	4475.7	4656.3	5047.1	5478.5	5452.7
2071.9	55°	2271.0	2617.6	2956.8	3255.4	3742.0	4011.2	4291.3	4733.8	4726.4
1622.2	57.5°	1718.0	2097.7	2418.5	2702.4	3089.5	3421.3	3646.2	4048.0	4099.6
1109.7	60°	1271.9	1563.2	1909.7	2226.8	2532.8	2875.6	3026.8	3421.3	3443.4
759.5	62.5°	866.4	1187.1	1526.3	1813.9	2042.4	2396.4	2532.8	2857.2	2897.8
486.6	65°	600.9	807.4	1194.5	1401.0	1681.1	1983.5	2119.9	2377.9	2459.0
280.2	67.5°	398.2	575.1	932.7	1120.8	1397.3	1603.7	1777.0	1987.1	2075.6
177.0	70°	217.5	424.0	667.3	884.8	1124.5	1323.5	1493.1	1662.7	1740.1
81.1	72.5°	147.5	283.9	464.5	700.5	906.9	1102.3	1253.5	1378.8	1382.5
47.9	75°	73.7	191.7	353.9	541.9	707.9	899.6	1036.0	1109.7	1021.2
29.5	77.5°	44.2	140.1	287.6	435.0	575.1	726.3	803.7	844.3	700.5
22.1	80°	25.8	99.5	224.9	346.6	398.2	534.6	608.3	619.4	468.2
14.7	82.5°	18.4	73.7	177.0	254.4	243.3	376.0	457.2	442.4	298.6
11.1	85°	11.1	51.6	110.6	158.5	147.5	247.0	265.4	272.8	173.3
7.4	87.5°	7.4	29.5	59.0	84.8	70.0	106.9	106.9	129.0	84.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19923.0
19429.0
19510.1
19274.2
18949.8
18551.6
18083.4
17523.0
16774.6
16048.3
15137.7
14326.6
13368.1
12446.4
11428.8
10632.5
9640.8
8767.0
7900.6
7063.8
6267.4
5508.0
4744.8
4077.5
3476.6
2905.1
2440.6
2064.6
1710.6
1349.3
954.9
674.7
438.7
276.5
158.5
73.7
0.0

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