

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: P638267

Luminaire Tested: **IFLD-L-SA7C-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638267
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25065.9 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

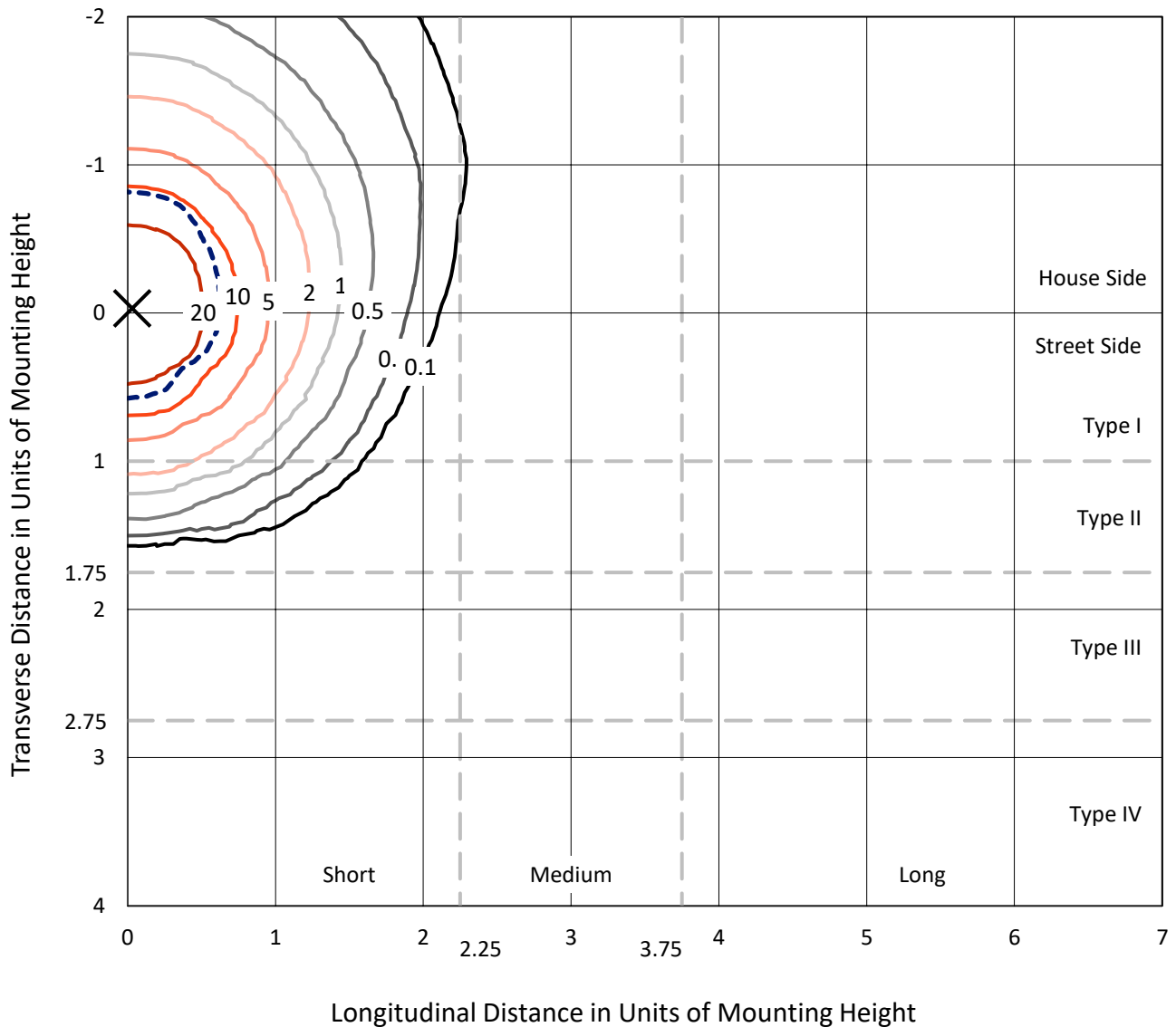
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

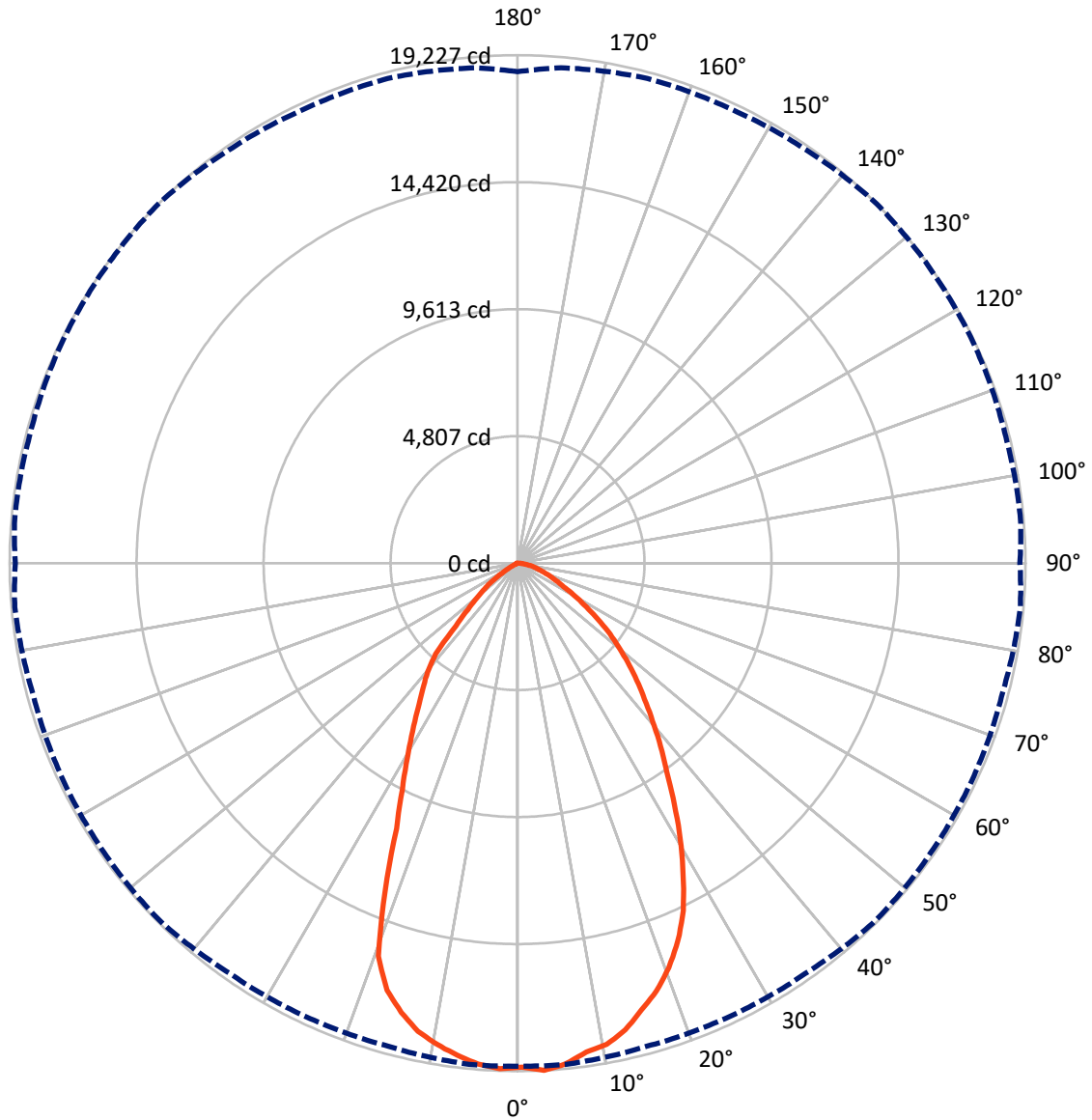
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.7 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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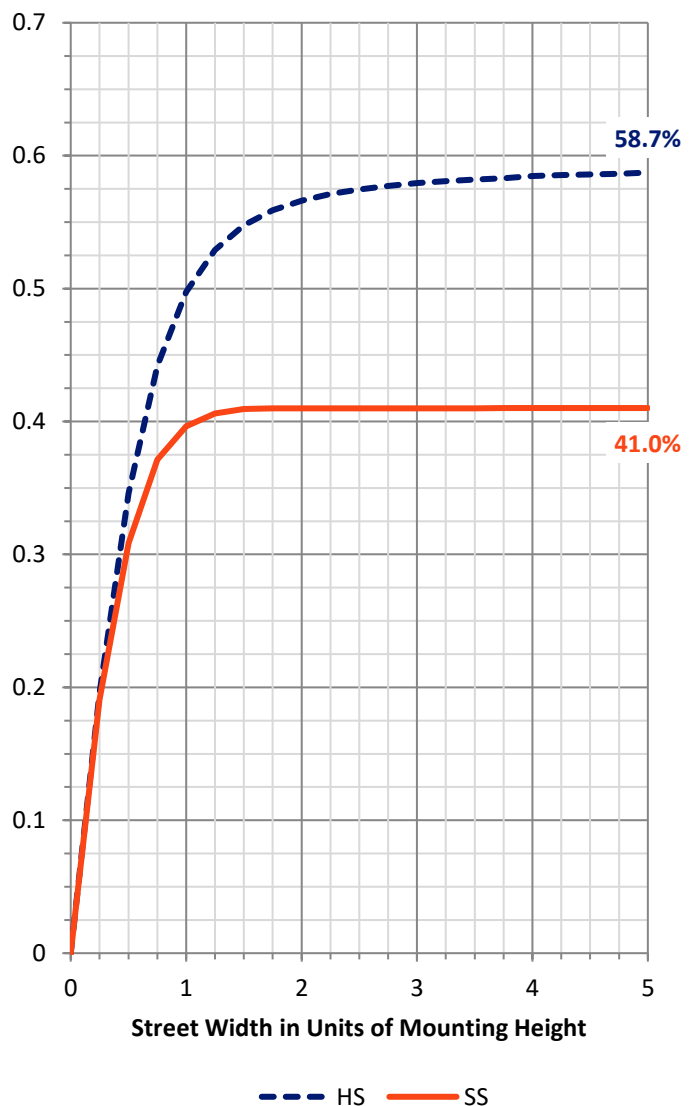
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14845.3	0.0	14845.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10220.6	0.0	10220.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	25065.9	0.0	25065.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1788.9	7.1
10°-20°	4797.2	19.1
20°-30°	5850.4	23.3
30°-40°	5341.3	21.3
40°-50°	3860.1	15.4
50°-60°	2107.6	8.4
60°-70°	871.4	3.5
70°-80°	352.9	1.4
80°-90°	96.0	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°	25065.9	100.0
0°-180°	25065.9	100.0



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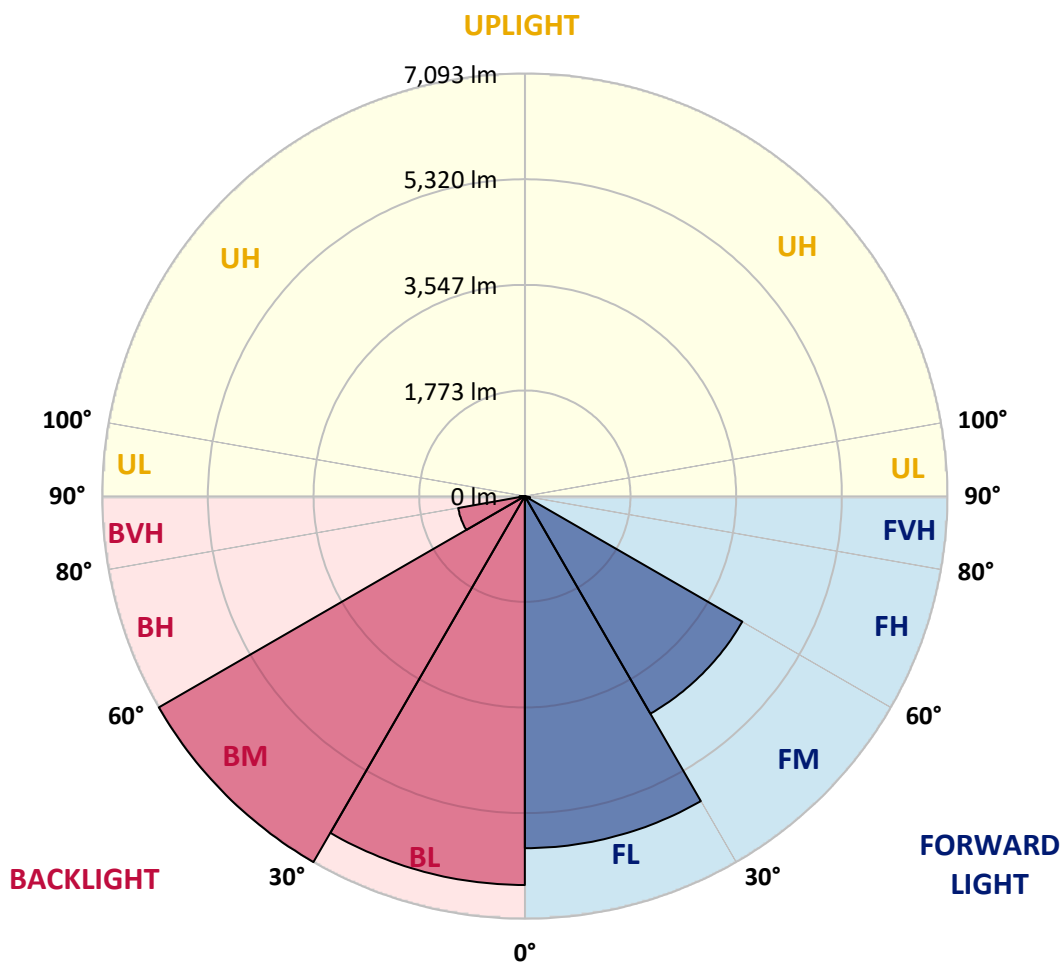
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5909.0	23.6			
FM	(30°-60°)	4215.6	16.8			
FH	(60°-80°)	88.3	0.4			G0/660
FVH	(80°-90°)	7.7	0.0			G0/10
BL	(0°-30°)	6527.5	26.0	B5		
BM	(30°-60°)	7093.4	28.3	B4/8500		
BH	(60°-80°)	1136.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	88.3	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°	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1
2.5°	19039.8	19064.5	18930.3	18944.5	18969.2	19149.2	19103.3	19060.9	19000.9	19103.3
5°	19015.0	19029.2	18888.0	18838.6	18859.7	19022.1	18873.9	18873.9	18859.7	18842.1
7.5°	18824.4	18831.5	18722.1	18633.8	18690.3	18764.4	18655.0	18708.0	18630.3	18690.3
10°	18538.5	18492.6	18362.0	18337.3	18400.9	18471.5	18397.3	18446.8	18376.2	18422.0
12.5°	18118.5	18047.9	17942.0	17910.2	18019.6	18115.0	18054.9	18026.7	17934.9	18047.9
15°	16498.3	16445.4	16685.4	17105.4	17483.1	17564.3	17500.8	17529.0	17338.4	17370.2
17.5°	13579.2	13480.3	13738.0	14733.4	16152.4	16900.7	16844.2	16660.7	16378.3	16441.8
20°	12340.2	12312.0	12283.7	12520.2	13512.1	15781.8	15859.4	15393.5	14991.1	14902.8
22.5°	11641.3	11630.7	11602.5	11655.4	11916.6	13374.4	14263.9	13833.3	13565.0	13540.3
25°	11002.4	10984.7	10900.0	10967.1	10967.1	11051.8	12191.9	12453.1	12216.6	12188.4
27.5°	10352.9	10321.1	10307.0	10338.8	10176.4	9604.6	9894.0	11168.3	11044.8	11051.8
30°	9650.5	9639.9	9601.1	9668.1	9166.9	8457.4	8273.9	10003.5	10028.2	10021.1
32.5°	8605.7	8651.5	8828.0	8902.2	8076.2	7490.2	7183.1	8655.1	9159.8	9149.2
35°	6251.3	6251.3	6826.6	7896.2	7077.3	6636.0	6470.1	7338.5	8302.1	8337.4
37.5°	5139.4	5157.0	5270.0	5757.1	6106.6	5951.2	5901.8	6177.2	7200.8	7257.3
40°	4624.0	4624.0	4624.0	4422.8	4412.3	5361.8	5333.5	5245.3	6219.5	6343.1
42.5°	4154.6	4165.2	4172.2	3663.9	3381.6	4634.6	4571.1	4437.0	5340.6	5485.3
45°	3671.0	3688.6	3709.8	3063.9	2940.3	3335.7	3868.7	3720.4	4472.3	4659.3
47.5°	2241.4	2269.7	2749.7	2597.9	2612.1	2573.2	3155.6	3130.9	3667.5	3932.2
50°	1514.3	1524.9	1570.8	1648.4	2241.4	2022.6	2234.4	2590.9	2785.0	3187.4
52.5°	1270.7	1288.4	1175.4	1069.5	1471.9	1581.4	1560.2	1923.7	2001.4	2499.1
55°	893.0	949.5	896.6	886.0	836.6	1228.4	1182.5	1479.0	1528.4	1899.0
57.5°	91.8	105.9	183.5	660.1	547.1	695.4	843.6	1083.6	1133.1	1401.3
60°	7.1	7.1	17.6	91.8	398.9	416.5	582.4	667.1	762.4	977.8
62.5°	0.0	3.5	7.1	14.1	63.5	222.4	293.0	349.5	458.9	631.8
65°	0.0	0.0	3.5	10.6	14.1	84.7	113.0	183.5	250.6	391.8
67.5°	0.0	0.0	3.5	7.1	10.6	21.2	38.8	67.1	134.1	222.4
70°	0.0	0.0	3.5	7.1	10.6	17.6	28.2	42.4	60.0	120.0
72.5°	0.0	0.0	3.5	3.5	7.1	17.6	21.2	28.2	42.4	60.0
75°	0.0	0.0	3.5	3.5	10.6	21.2	17.6	21.2	28.2	38.8
77.5°	0.0	0.0	3.5	7.1	10.6	21.2	17.6	21.2	21.2	24.7
80°	0.0	0.0	3.5	7.1	14.1	24.7	21.2	21.2	17.6	17.6
82.5°	0.0	0.0	3.5	10.6	14.1	31.8	31.8	28.2	14.1	10.6
85°	0.0	0.0	7.1	14.1	21.2	35.3	35.3	28.2	10.6	7.1
87.5°	0.0	0.0	7.1	10.6	17.6	24.7	35.3	28.2	10.6	3.5
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°
19075.1	0°	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1	19075.1
19015.0	2.5°	19110.4	19089.2	19159.8	19188.0	19226.8	19078.6	18986.8	18990.3	18820.9
18799.7	5°	18912.7	18916.2	19008.0	19000.9	19039.8	18958.6	18923.3	18863.3	18715.0
18527.9	7.5°	18662.1	18630.3	18718.5	18785.6	18686.8	18743.3	18662.1	18690.3	18602.1
18287.9	10°	18467.9	18393.8	18475.0	18520.9	18524.4	18467.9	18390.3	18316.1	18284.4
17913.8	12.5°	18037.3	17942.0	18079.7	18143.2	18132.6	18023.2	17934.9	17952.6	17850.2
17257.2	15°	17444.3	17447.8	17546.7	17606.7	17550.2	17525.5	17532.5	17490.2	17401.9
16350.0	17.5°	16537.1	16590.1	16851.3	16996.0	17027.8	16978.4	16953.6	16904.2	16816.0
14902.8	20°	15026.4	15344.1	15810.0	16258.3	16346.5	16332.4	16244.2	16223.0	16173.6
13469.7	22.5°	13699.2	13935.7	14475.7	15174.6	15534.7	15570.0	15464.1	15432.3	15379.4
12188.4	25°	12326.1	12580.2	13067.3	13826.2	14571.0	14722.8	14705.2	14609.9	14553.4
11051.8	27.5°	11168.3	11422.4	11863.7	12548.5	13346.2	13833.3	13879.2	13727.4	13723.9
10038.8	30°	10123.5	10472.9	10808.3	11366.0	12139.0	12869.7	12947.3	12841.4	12852.0
9110.4	32.5°	9304.6	9594.0	9879.9	10254.1	10896.5	11747.2	12050.7	11951.9	11913.1
8337.4	35°	8468.0	8665.7	8958.6	9301.0	9738.7	10582.3	11108.3	11034.2	10995.3
7292.6	37.5°	7515.0	7853.8	8065.6	8450.3	8792.7	9463.4	10204.7	10194.1	10112.9
6403.1	40°	6537.2	6893.7	7214.9	7603.2	7867.9	8400.9	9223.4	9219.8	9230.4
5481.8	42.5°	5651.2	5979.5	6367.8	6791.3	7045.5	7433.8	8316.2	8365.6	8425.6
4722.9	45°	4849.9	5146.5	5506.5	6021.8	6328.9	6551.3	7334.9	7560.8	7557.3
4045.2	47.5°	4129.9	4408.7	4712.3	5213.5	5605.3	5806.5	6456.0	6777.2	6756.0
3318.0	50°	3466.3	3713.4	4031.0	4394.6	4920.5	5097.0	5580.6	6004.2	5972.4
2643.8	52.5°	2788.5	3130.9	3399.2	3731.0	4285.2	4458.1	4832.3	5245.3	5220.6
1983.7	55°	2174.4	2506.2	2830.9	3116.8	3582.8	3840.4	4108.7	4532.3	4525.2
1553.1	57.5°	1644.9	2008.5	2315.6	2587.3	2958.0	3275.7	3491.0	3875.7	3925.1
1062.5	60°	1217.8	1496.6	1828.4	2132.0	2425.0	2753.2	2898.0	3275.7	3296.8
727.1	62.5°	829.5	1136.6	1461.3	1736.7	1955.5	2294.4	2425.0	2735.6	2774.4
465.9	65°	575.4	773.0	1143.7	1341.3	1609.6	1899.0	2029.6	2276.7	2354.4
268.3	67.5°	381.2	550.6	893.0	1073.1	1337.8	1535.5	1701.4	1902.6	1987.3
169.4	70°	208.3	405.9	638.9	847.2	1076.6	1267.2	1429.6	1591.9	1666.1
77.7	72.5°	141.2	271.8	444.8	670.7	868.3	1055.4	1200.1	1320.1	1323.7
45.9	75°	70.6	183.5	338.9	518.9	677.7	861.3	991.9	1062.5	977.8
28.2	77.5°	42.4	134.1	275.3	416.5	550.6	695.4	769.5	808.3	670.7
21.2	80°	24.7	95.3	215.3	331.8	381.2	511.8	582.4	593.0	448.3
14.1	82.5°	17.6	70.6	169.4	243.6	233.0	360.0	437.7	423.6	285.9
10.6	85°	10.6	49.4	105.9	151.8	141.2	236.5	254.1	261.2	165.9
7.1	87.5°	7.1	28.2	56.5	81.2	67.1	102.4	102.4	123.5	81.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19075.1
18602.1
18679.7
18453.8
18143.2
17762.0
17313.7
16777.2
16060.6
15365.2
14493.4
13716.8
12799.1
11916.6
10942.4
10180.0
9230.4
8393.9
7564.4
6763.1
6000.7
5273.5
4542.9
3904.0
3328.6
2781.5
2336.7
1976.7
1637.8
1291.9
914.2
646.0
420.0
264.7
151.8
70.6
0.0

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