

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: P637388

Luminaire Tested: **IFLD-S-SA6D-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44097.9 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

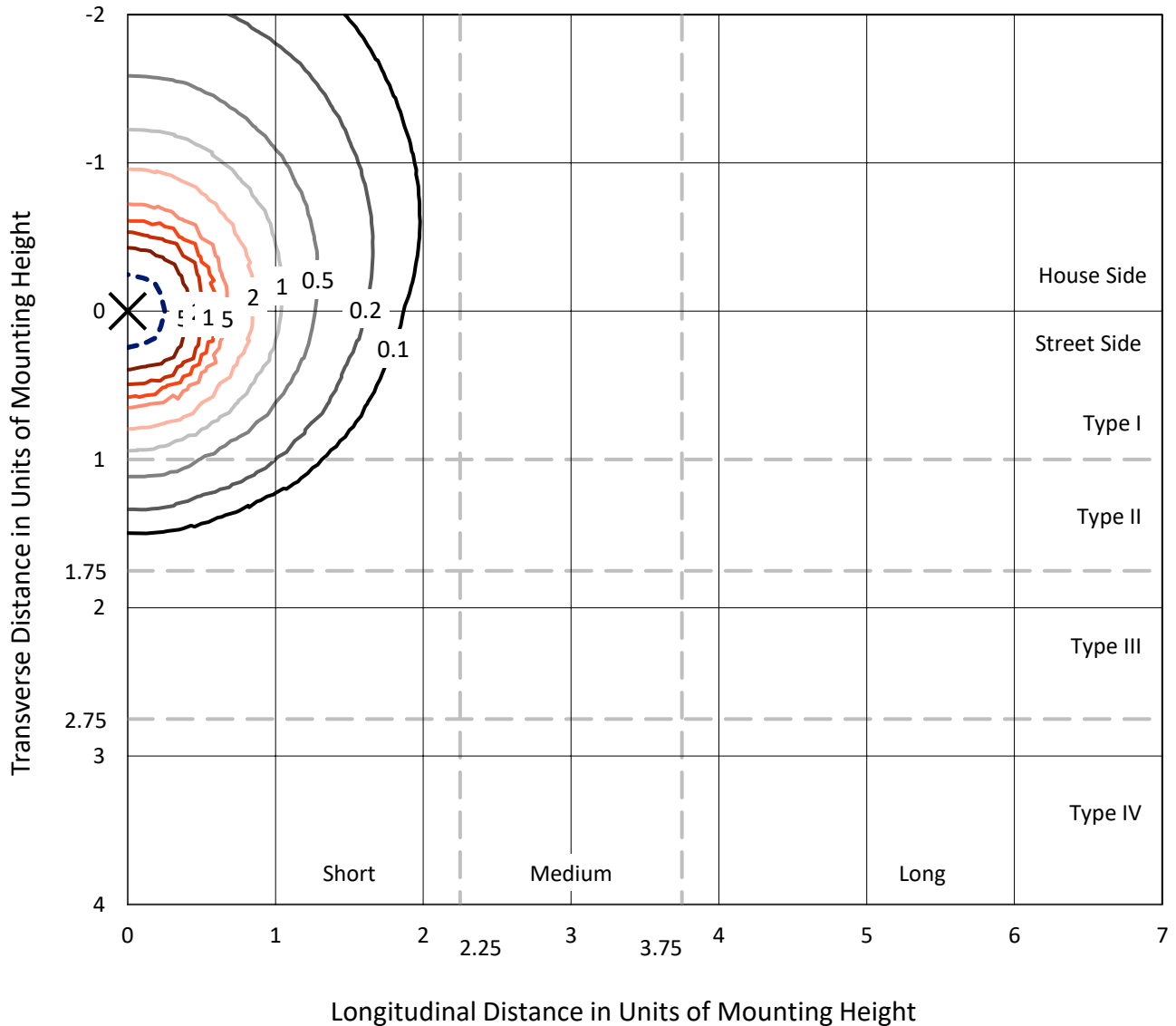
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

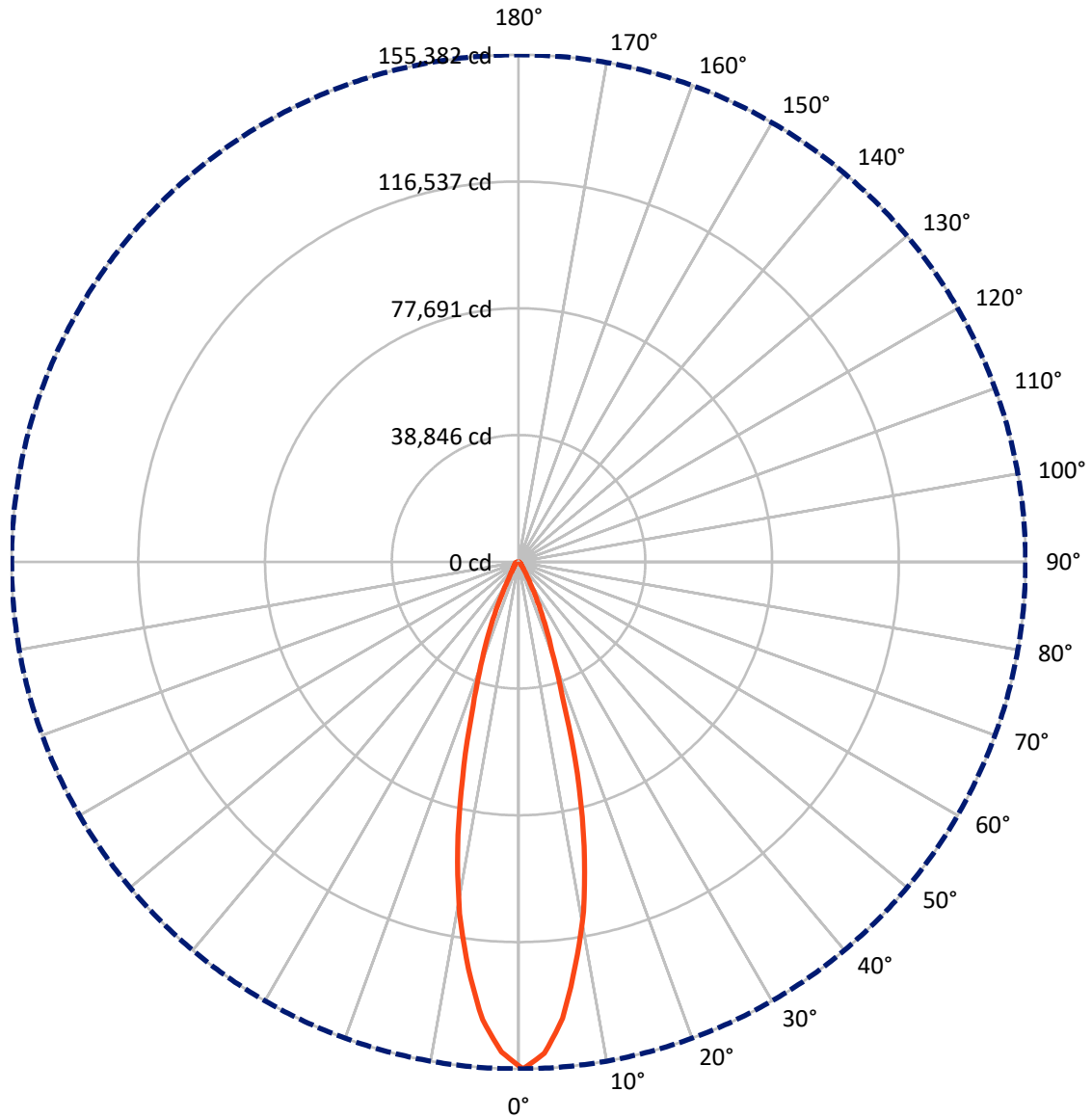
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 388.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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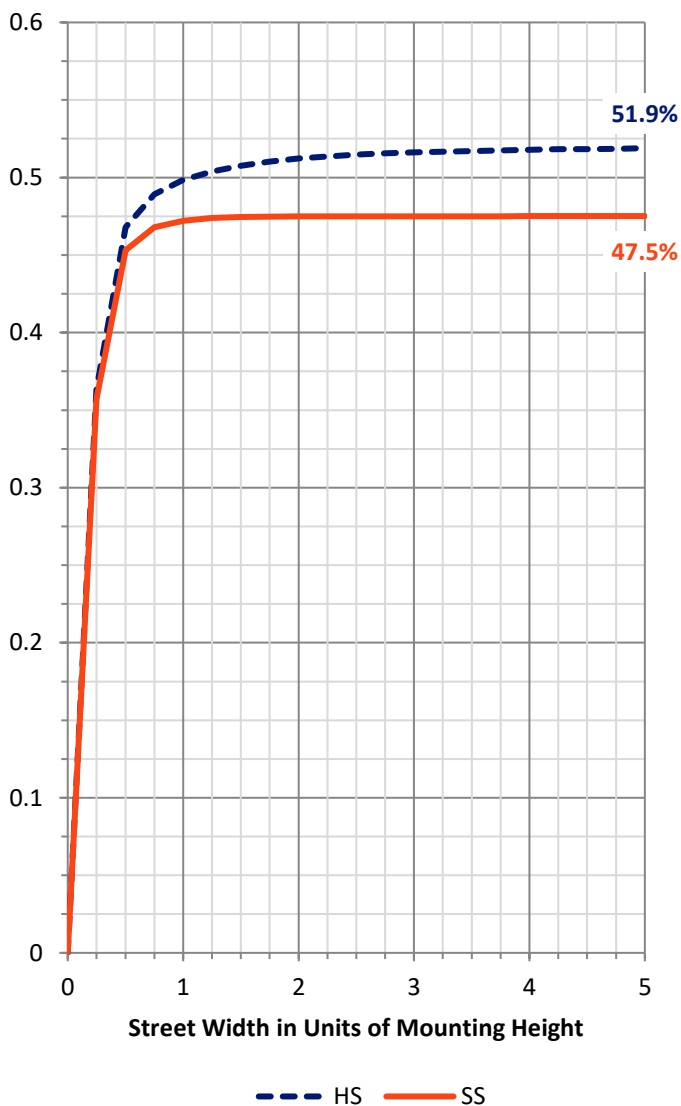
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23251.4	0.0	23251.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	20846.5	0.0	20846.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	44097.9	0.0	44097.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12540.7	28.4
10°-20°	18992.8	43.1
20°-30°	8015.1	18.2
30°-40°	2090.4	4.7
40°-50°	1057.3	2.4
50°-60°	691.1	1.6
60°-70°	414.0	0.9
70°-80°	217.8	0.5
80°-90°	78.7	0.2
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°	44097.9	100.0
0°-180°	44097.9	100.0



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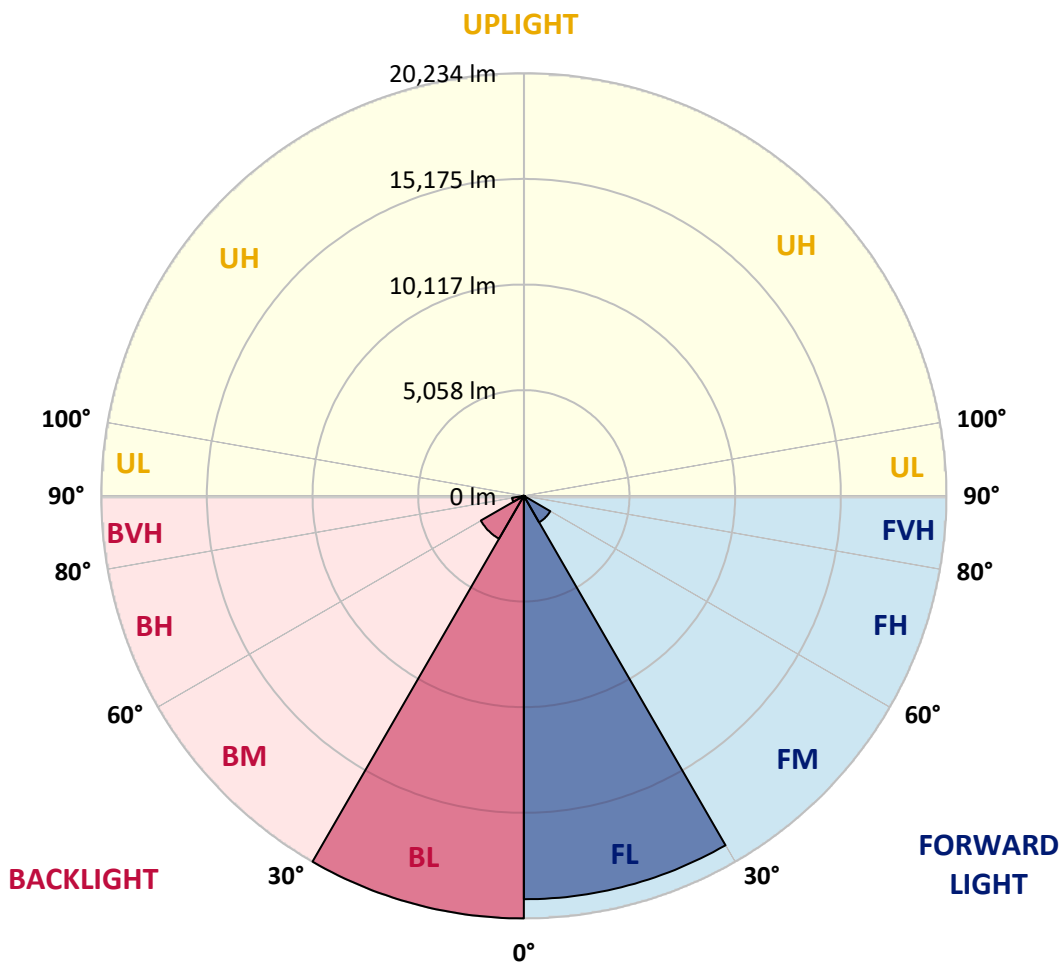
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19314.6	43.8			
FM (30°-60°)	1462.7	3.3			
FH (60°-80°)	59.6	0.1			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	20234.0	45.9	B5		
BM (30°-60°)	2376.0	5.4	B2/2500		
BH (60°-80°)	572.2	1.3	B2/1000		G0/660
BVH (80°-90°)	69.1	0.2			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1
2.5°	150855.7	150939.9	150627.9	151301.4	150776.5	152182.9	151484.6	152574.1	152207.7	152816.8
5°	140555.0	140416.3	140327.2	141372.1	141070.0	142580.5	141614.8	141297.8	142278.4	142100.1
7.5°	125000.0	125366.4	125158.4	125430.8	125584.3	127307.7	127852.5	127426.6	127441.4	127689.0
10°	109053.7	108513.9	107746.3	108256.4	109336.0	110088.7	109786.6	110410.6	110271.9	110861.3
12.5°	89432.8	89858.7	89427.9	88972.3	90859.1	90651.1	91176.0	91517.7	90661.0	92567.6
15°	67365.6	67588.4	68113.4	68078.7	69529.7	69821.9	69752.6	70114.1	69445.5	69762.5
17.5°	43277.8	44030.5	45441.9	47828.9	50513.0	50825.0	50745.8	50448.7	50126.8	49770.2
20°	29069.8	28990.5	29500.6	30198.9	35755.3	37226.1	37181.6	36250.5	34903.5	34646.0
22.5°	20363.7	20512.3	20442.9	21136.2	22285.2	26341.1	25840.9	24895.0	24454.3	24167.0
25°	13395.9	13341.4	13688.0	13896.0	14881.5	15376.8	17129.9	16778.3	16099.8	16174.1
27.5°	8166.3	8235.6	8364.4	8542.6	9240.9	9082.4	10082.8	10216.5	9998.6	9765.9
30°	5011.7	5061.2	5165.2	5294.0	5536.6	5363.3	5640.6	6121.0	6041.8	5878.3
32.5°	3402.2	3407.2	3481.4	3531.0	3501.2	3337.8	3427.0	3882.6	3892.5	3877.6
35°	2446.4	2446.4	2515.7	2555.4	2471.2	2337.5	2352.3	2634.6	2758.4	2783.2
37.5°	1688.7	1693.7	1812.5	1931.4	1837.3	1802.6	1743.2	1931.4	2129.5	2159.2
40°	1282.6	1277.7	1337.1	1426.3	1436.2	1371.8	1391.6	1510.4	1713.5	1738.2
42.5°	1040.0	1044.9	1074.6	1064.7	1069.7	1153.9	1183.6	1238.1	1426.3	1470.8
45°	876.5	881.5	896.4	846.8	827.0	955.8	995.4	1025.1	1183.6	1238.1
47.5°	723.0	732.9	747.8	693.3	683.4	767.6	836.9	866.6	1005.3	1064.7
50°	520.0	529.9	584.4	554.7	584.4	604.2	698.3	742.8	836.9	916.2
52.5°	376.4	386.3	401.1	406.1	480.4	490.3	559.6	628.9	673.5	762.6
55°	297.1	307.0	297.1	287.2	351.6	406.1	430.8	505.1	539.8	643.8
57.5°	168.4	178.3	193.1	222.9	232.8	312.0	336.8	401.1	430.8	529.9
60°	29.7	34.7	54.5	133.7	163.4	198.1	252.6	307.0	346.7	416.0
62.5°	5.0	5.0	9.9	29.7	94.1	138.7	183.2	217.9	252.6	316.9
65°	0.0	0.0	5.0	9.9	24.8	79.2	99.0	128.8	173.3	227.8
67.5°	0.0	0.0	5.0	9.9	14.9	29.7	44.6	79.2	99.0	153.5
70°	0.0	0.0	5.0	9.9	14.9	19.8	24.8	34.7	59.4	94.1
72.5°	0.0	0.0	5.0	9.9	14.9	19.8	24.8	29.7	29.7	59.4
75°	0.0	0.0	5.0	9.9	14.9	24.8	29.7	29.7	24.8	24.8
77.5°	0.0	0.0	5.0	9.9	19.8	29.7	34.7	29.7	19.8	19.8
80°	0.0	0.0	9.9	14.9	24.8	34.7	44.6	34.7	19.8	9.9
82.5°	0.0	0.0	9.9	19.8	24.8	39.6	54.5	44.6	19.8	9.9
85°	0.0	0.0	5.0	14.9	29.7	39.6	54.5	39.6	19.8	5.0
87.5°	0.0	0.0	5.0	5.0	9.9	14.9	29.7	24.8	9.9	5.0
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°
155382.1	0°	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1	155382.1
151662.9	2.5°	152534.5	153326.9	153490.3	153272.4	153589.3	153019.8	152584.0	151454.9	150776.5
142045.6	5°	142961.8	142842.9	143670.0	143942.3	143907.7	143471.9	142862.7	142179.3	141515.7
127208.7	7.5°	128001.0	128154.5	128907.3	129387.7	129145.0	128600.2	128179.3	127664.3	127218.6
111074.2	10°	112089.4	111034.6	111970.6	111970.6	112619.3	111079.2	111222.8	109925.3	109984.7
92532.9	12.5°	92849.9	93231.2	93384.7	93825.5	93067.8	92250.7	91250.3	91052.2	90433.2
69158.3	15°	70153.7	71243.2	70307.2	71906.8	71134.2	70282.4	70128.9	68593.7	69079.1
50161.4	17.5°	49913.8	51117.2	51493.6	52409.7	51706.5	51201.4	50562.6	50097.0	50062.4
35116.5	20°	35393.8	36602.1	36879.5	37978.9	37899.6	37741.2	37201.4	36612.0	35973.2
23904.6	22.5°	24266.1	25251.6	26172.7	27653.4	27628.6	27163.1	27108.7	26276.7	26291.5
16149.3	25°	16317.7	17035.8	17253.7	18769.1	18937.4	18887.9	18605.6	17833.1	18125.3
9864.9	27.5°	9874.8	10503.7	11241.6	11776.5	12281.6	12202.4	11920.1	11489.2	11301.1
5927.9	30°	6086.3	6368.6	6641.0	7284.8	7586.9	7745.3	7611.6	7210.5	7240.2
3902.4	32.5°	3986.6	4224.3	4422.4	4828.5	4986.9	5279.1	5224.6	5140.4	5041.4
2807.9	35°	2907.0	3080.3	3214.0	3402.2	3605.2	3852.9	3892.5	3857.8	3818.2
2169.1	37.5°	2218.6	2396.9	2550.4	2629.6	2788.1	2981.3	3090.2	3085.3	3055.5
1768.0	40°	1802.6	1936.3	2075.0	2179.0	2287.9	2431.6	2565.3	2580.1	2580.1
1485.7	42.5°	1505.5	1619.4	1758.1	1867.0	1946.2	2079.9	2218.6	2228.5	2218.6
1257.9	45°	1287.6	1386.6	1520.3	1649.1	1713.5	1812.5	1946.2	1976.0	1956.1
1079.6	47.5°	1119.2	1208.4	1322.3	1460.9	1530.2	1619.4	1743.2	1777.9	1772.9
931.0	50°	960.7	1064.7	1178.6	1292.5	1381.7	1465.9	1584.7	1624.3	1609.5
792.4	52.5°	846.8	940.9	1040.0	1163.8	1267.8	1342.1	1436.2	1505.5	1485.7
668.6	55°	708.2	822.1	926.1	1030.1	1158.8	1238.1	1327.2	1411.4	1391.6
564.6	57.5°	614.1	708.2	827.0	921.1	1049.9	1144.0	1233.1	1322.3	1317.3
460.6	60°	515.0	614.1	728.0	827.0	945.9	1049.9	1139.0	1238.1	1248.0
346.7	62.5°	406.1	524.9	624.0	737.9	856.7	970.6	1049.9	1148.9	1163.8
262.5	65°	307.0	430.8	539.8	648.7	767.6	891.4	960.7	1044.9	1059.8
193.1	67.5°	227.8	331.8	460.6	559.6	683.4	802.3	866.6	936.0	960.7
118.9	70°	173.3	252.6	386.3	480.4	609.1	703.2	772.6	832.0	851.8
79.2	72.5°	108.9	198.1	312.0	411.0	524.9	609.1	658.7	693.3	723.0
44.6	75°	74.3	153.5	252.6	351.6	435.8	500.2	544.7	574.5	599.2
19.8	77.5°	44.6	118.9	208.0	292.2	346.7	396.2	440.8	460.6	475.4
14.9	80°	24.8	89.1	173.3	237.7	272.4	307.0	341.7	366.5	376.4
9.9	82.5°	14.9	69.3	138.7	183.2	198.1	232.8	267.4	282.3	282.3
5.0	85°	9.9	49.5	94.1	133.7	143.6	168.4	178.3	188.2	198.1
5.0	87.5°	9.9	29.7	59.4	74.3	79.2	89.1	94.1	104.0	113.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
155382.1
150276.3
140772.9
125708.1
109405.3
89868.6
68593.7
49141.3
35695.9
26004.3
17664.7
11137.6
7111.4
5006.7
3803.3
3040.7
2550.4
2208.7
1956.1
1763.0
1599.6
1480.7
1401.5
1322.3
1252.9
1173.7
1074.6
970.6
861.7
718.1
594.3
470.5
366.5
277.3
193.1
108.9
0.0

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