

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: P637475

Luminaire Tested: **IFLD-S-SA6D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32416.4 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

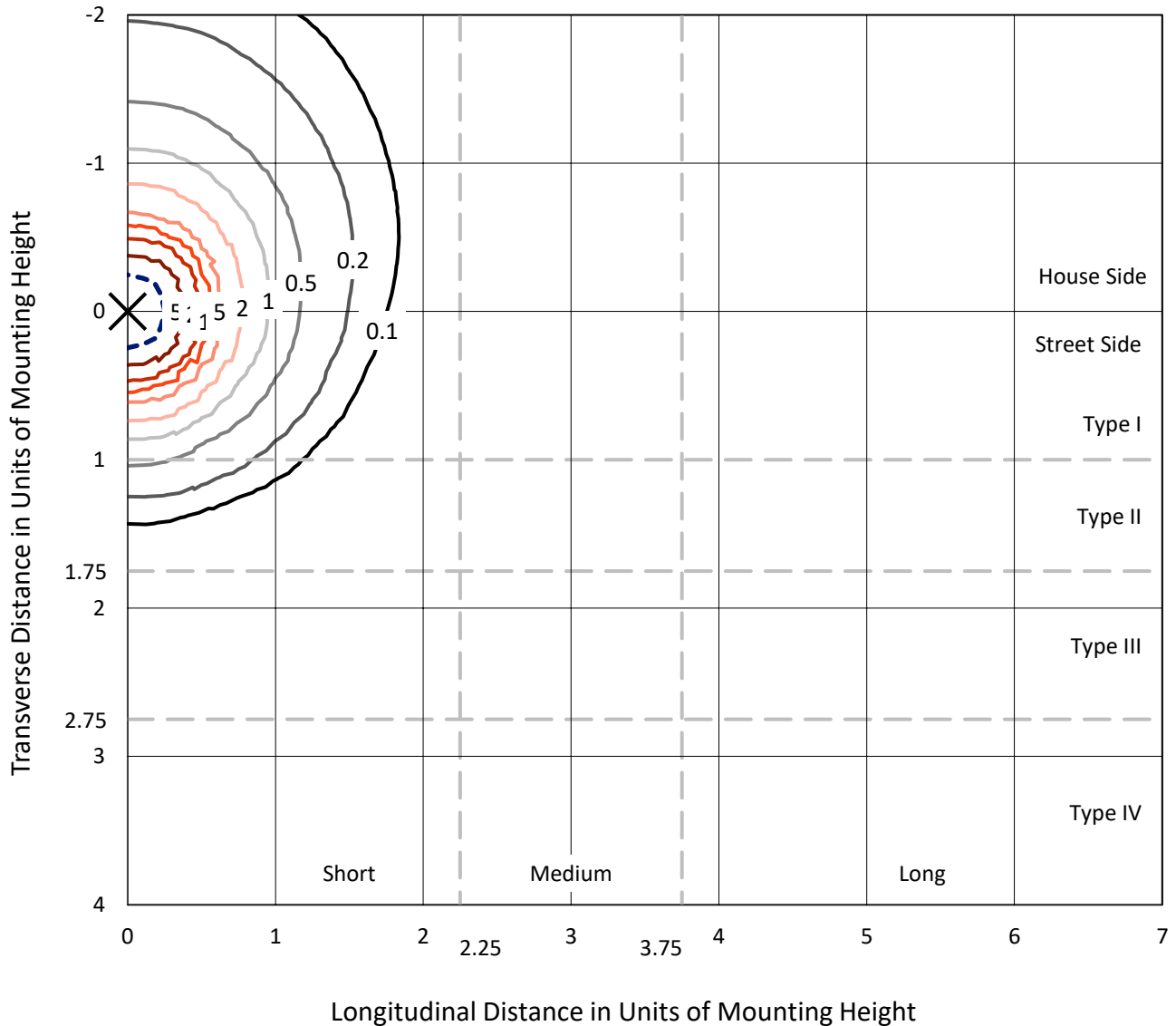
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

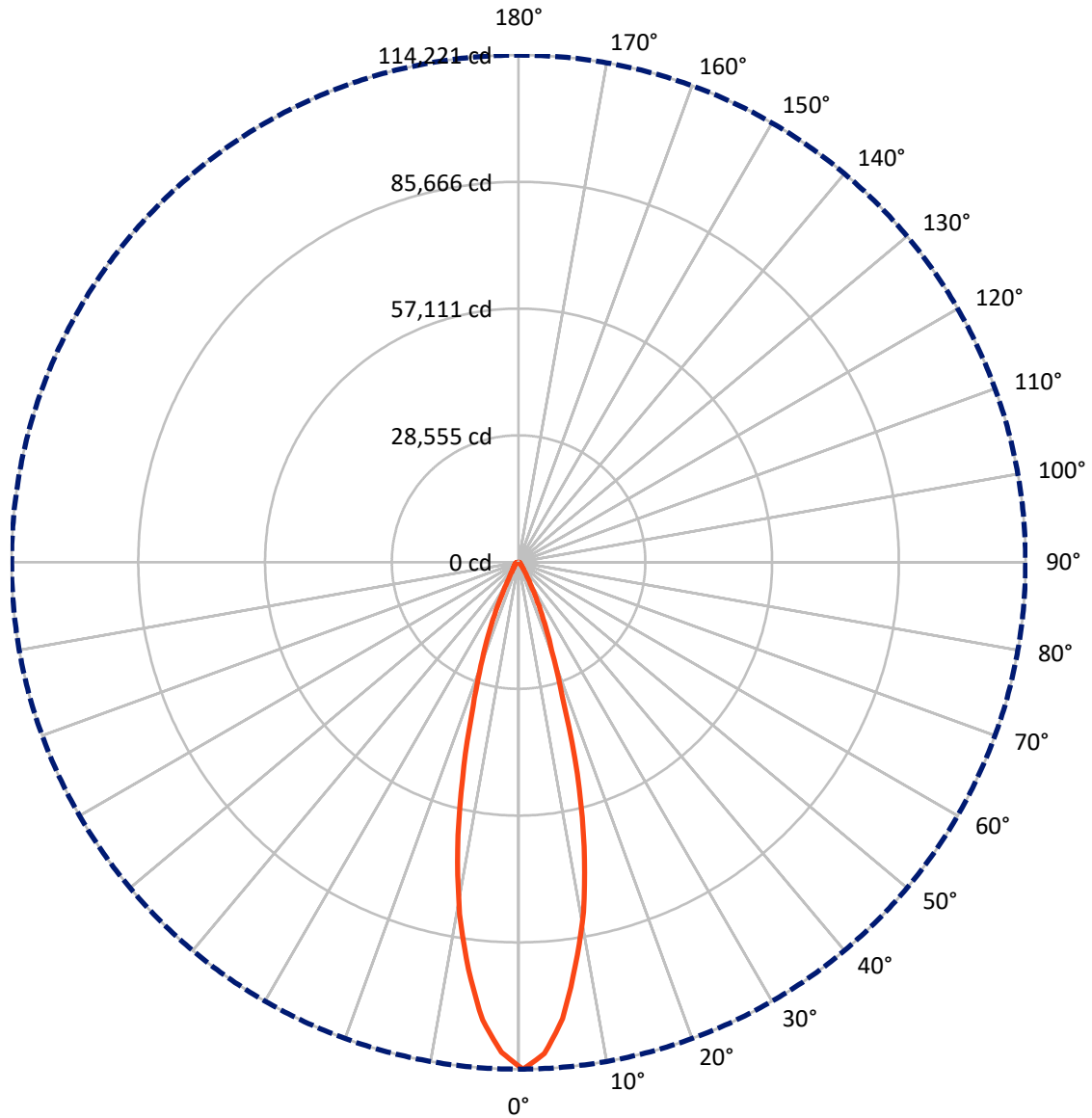
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 285.6 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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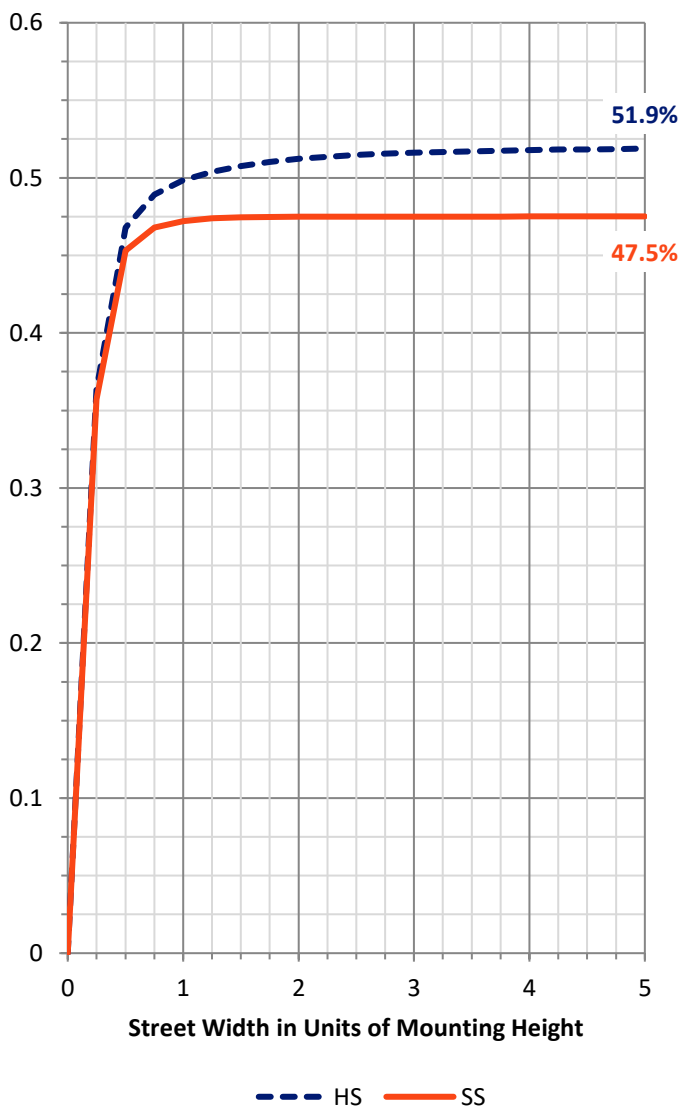
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17092.1	0.0	17092.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15324.3	0.0	15324.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	32416.4	0.0	32416.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9218.7	28.4
10°-20°	13961.6	43.1
20°-30°	5891.9	18.2
30°-40°	1536.7	4.7
40°-50°	777.2	2.4
50°-60°	508.0	1.6
60°-70°	304.4	0.9
70°-80°	160.1	0.5
80°-90°	57.8	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°	32416.4	100.0
0°-180°	32416.4	100.0



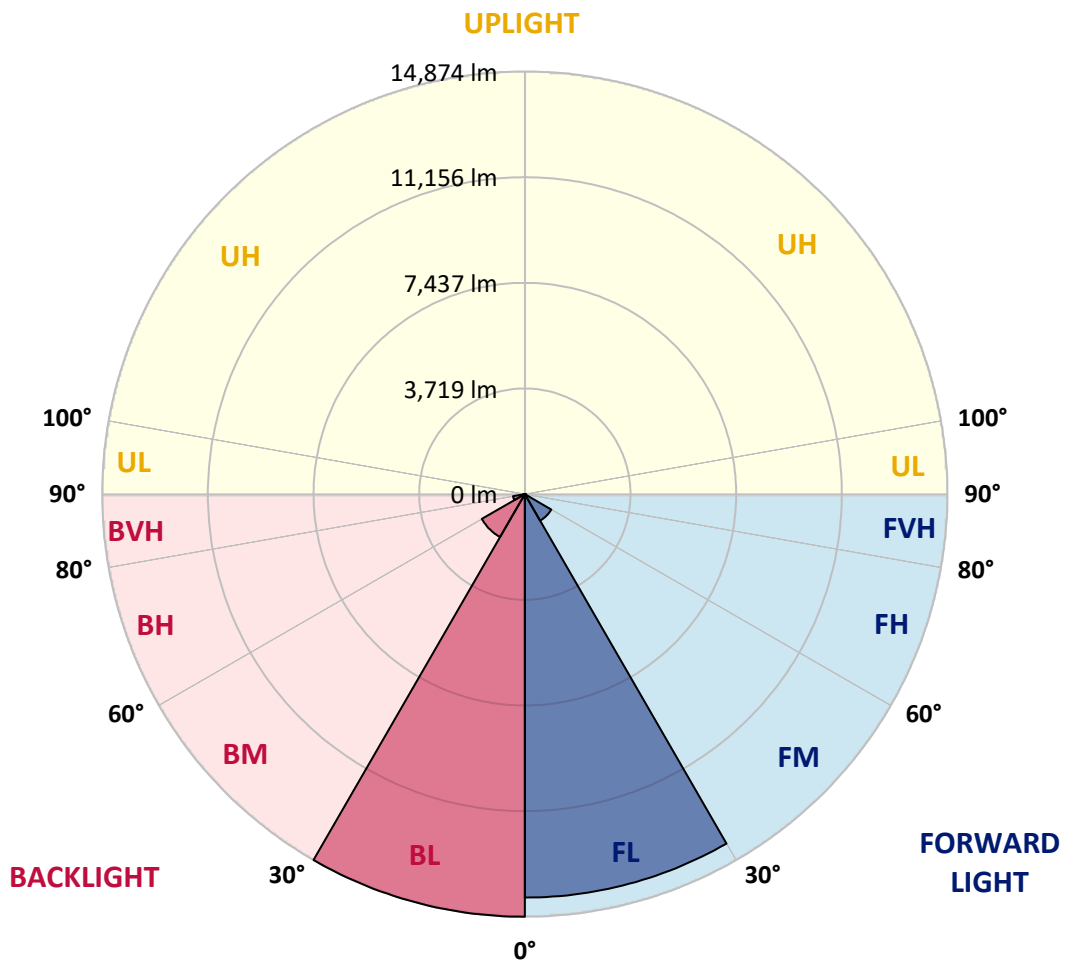
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14198.2	43.8			
FM (30°-60°)	1075.3	3.3			
FH (60°-80°)	43.8	0.1			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	14874.0	45.9	B5		
BM (30°-60°)	1746.6	5.4	B2/2500		
BH (60°-80°)	420.7	1.3	B1/500		G0/660
BVH (80°-90°)	50.8	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°	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3
2.5°	110894.0	110955.9	110726.6	111221.7	110835.8	111869.6	111356.4	112157.2	111887.8	112335.6
5°	103322.0	103220.0	103154.5	103922.6	103700.6	104810.9	104101.0	103868.0	104588.8	104457.8
7.5°	91887.5	92156.9	92004.0	92204.2	92317.0	93583.9	93984.3	93671.3	93682.2	93864.2
10°	80165.4	79768.6	79204.3	79579.3	80372.9	80926.2	80704.1	81162.8	81060.9	81494.1
12.5°	65742.1	66055.1	65738.4	65403.5	66790.5	66637.6	67023.5	67274.7	66644.9	68046.5
15°	49520.4	49684.2	50070.1	50044.6	51111.3	51326.1	51275.1	51540.9	51049.4	51282.4
17.5°	31813.5	32366.8	33404.4	35159.0	37132.1	37361.5	37303.2	37084.8	36848.2	36586.1
20°	21369.2	21310.9	21685.9	22199.2	26283.7	27364.9	27332.2	26647.8	25657.6	25468.3
22.5°	14969.3	15078.6	15027.6	15537.2	16381.8	19363.3	18995.6	18300.3	17976.3	17765.2
25°	9847.3	9807.3	10062.1	10215.0	10939.4	11303.5	12592.2	12333.7	11835.0	11889.6
27.5°	6003.0	6054.0	6148.6	6279.7	6793.0	6676.5	7411.9	7510.2	7350.0	7178.9
30°	3684.1	3720.5	3796.9	3891.6	4070.0	3942.6	4146.4	4499.5	4441.3	4321.2
32.5°	2501.0	2504.6	2559.2	2595.6	2573.8	2453.6	2519.2	2854.1	2861.4	2850.4
35°	1798.4	1798.4	1849.3	1878.4	1816.6	1718.3	1729.2	1936.7	2027.7	2045.9
37.5°	1241.4	1245.0	1332.4	1419.8	1350.6	1325.1	1281.4	1419.8	1565.4	1587.2
40°	942.9	939.2	982.9	1048.4	1055.7	1008.4	1023.0	1110.3	1259.6	1277.8
42.5°	764.5	768.1	790.0	782.7	786.3	848.2	870.1	910.1	1048.4	1081.2
45°	644.4	648.0	658.9	622.5	607.9	702.6	731.7	753.6	870.1	910.1
47.5°	531.5	538.8	549.7	509.7	502.4	564.3	615.2	637.1	739.0	782.7
50°	382.2	389.5	429.6	407.7	429.6	444.1	513.3	546.1	615.2	673.5
52.5°	276.7	284.0	294.9	298.5	353.1	360.4	411.4	462.3	495.1	560.6
55°	218.4	225.7	218.4	211.1	258.5	298.5	316.7	371.3	396.8	473.3
57.5°	123.8	131.1	142.0	163.8	171.1	229.3	247.5	294.9	316.7	389.5
60°	21.8	25.5	40.0	98.3	120.1	145.6	185.7	225.7	254.8	305.8
62.5°	3.6	3.6	7.3	21.8	69.2	101.9	134.7	160.2	185.7	233.0
65°	0.0	0.0	3.6	7.3	18.2	58.2	72.8	94.7	127.4	167.5
67.5°	0.0	0.0	3.6	7.3	10.9	21.8	32.8	58.2	72.8	112.9
70°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	25.5	43.7	69.2
72.5°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	21.8	21.8	43.7
75°	0.0	0.0	3.6	7.3	10.9	18.2	21.8	21.8	18.2	18.2
77.5°	0.0	0.0	3.6	7.3	14.6	21.8	25.5	21.8	14.6	14.6
80°	0.0	0.0	7.3	10.9	18.2	25.5	32.8	25.5	14.6	7.3
82.5°	0.0	0.0	7.3	14.6	18.2	29.1	40.0	32.8	14.6	7.3
85°	0.0	0.0	3.6	10.9	21.8	29.1	40.0	29.1	14.6	3.6
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	21.8	18.2	7.3	3.6
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°
114221.3	0°	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3	114221.3
111487.4	2.5°	112128.1	112710.6	112830.7	112670.5	112903.5	112484.9	112164.5	111334.5	110835.8
104417.7	5°	105091.2	105003.8	105611.8	105812.0	105786.5	105466.2	105018.4	104516.0	104028.2
93511.1	7.5°	94093.5	94206.4	94759.7	95112.9	94934.5	94534.0	94224.6	93846.0	93518.4
81650.6	10°	82396.9	81621.5	82309.6	82309.6	82786.5	81654.3	81759.9	80806.1	80849.8
68021.0	12.5°	68254.0	68534.3	68647.1	68971.1	68414.1	67813.5	67078.1	66932.5	66477.4
50838.3	15°	51570.0	52370.9	51682.8	52858.7	52290.8	51664.6	51551.8	50423.3	50780.0
36873.7	17.5°	36691.6	37576.3	37852.9	38526.4	38009.5	37638.1	37168.5	36826.3	36800.9
25814.1	20°	26018.0	26906.2	27110.1	27918.3	27860.0	27743.5	27346.7	26913.5	26443.9
17572.2	22.5°	17838.0	18562.4	19239.5	20328.0	20309.8	19967.6	19927.6	19316.0	19326.9
11871.4	25°	11995.1	12523.0	12683.2	13797.1	13920.9	13884.5	13677.0	13109.1	13323.9
7251.7	27.5°	7259.0	7721.3	8263.7	8656.9	9028.2	8970.0	8762.5	8445.7	8307.4
4357.6	30°	4474.1	4681.6	4881.8	5355.0	5577.1	5693.6	5595.3	5300.4	5322.3
2868.6	32.5°	2930.5	3105.3	3250.9	3549.4	3665.9	3880.7	3840.6	3778.7	3705.9
2064.1	35°	2136.9	2264.3	2362.6	2501.0	2650.2	2832.2	2861.4	2835.9	2806.8
1594.5	37.5°	1630.9	1762.0	1874.8	1933.1	2049.5	2191.5	2271.6	2268.0	2246.1
1299.6	40°	1325.1	1423.4	1525.3	1601.8	1681.9	1787.4	1885.7	1896.7	1896.7
1092.1	42.5°	1106.7	1190.4	1292.3	1372.4	1430.7	1529.0	1630.9	1638.2	1630.9
924.7	45°	946.5	1019.3	1117.6	1212.3	1259.6	1332.4	1430.7	1452.5	1438.0
793.6	47.5°	822.7	888.3	972.0	1073.9	1124.9	1190.4	1281.4	1306.9	1303.3
684.4	50°	706.2	782.7	866.4	950.1	1015.7	1077.6	1164.9	1194.1	1183.1
582.5	52.5°	622.5	691.7	764.5	855.5	931.9	986.5	1055.7	1106.7	1092.1
491.5	55°	520.6	604.3	680.8	757.2	851.9	910.1	975.6	1037.5	1023.0
415.0	57.5°	451.4	520.6	607.9	677.1	771.8	840.9	906.5	972.0	968.3
338.6	60°	378.6	451.4	535.1	607.9	695.3	771.8	837.3	910.1	917.4
254.8	62.5°	298.5	385.9	458.7	542.4	629.8	713.5	771.8	844.6	855.5
192.9	65°	225.7	316.7	396.8	476.9	564.3	655.3	706.2	768.1	779.0
142.0	67.5°	167.5	243.9	338.6	411.4	502.4	589.7	637.1	688.0	706.2
87.4	70°	127.4	185.7	284.0	353.1	447.8	516.9	567.9	611.6	626.1
58.2	72.5°	80.1	145.6	229.3	302.2	385.9	447.8	484.2	509.7	531.5
32.8	75°	54.6	112.9	185.7	258.5	320.4	367.7	400.4	422.3	440.5
14.6	77.5°	32.8	87.4	152.9	214.8	254.8	291.2	324.0	338.6	349.5
10.9	80°	18.2	65.5	127.4	174.7	200.2	225.7	251.2	269.4	276.7
7.3	82.5°	10.9	51.0	101.9	134.7	145.6	171.1	196.6	207.5	207.5
3.6	85°	7.3	36.4	69.2	98.3	105.6	123.8	131.1	138.3	145.6
3.6	87.5°	7.3	21.8	43.7	54.6	58.2	65.5	69.2	76.4	83.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
114221.3
110468.1
103482.2
92408.0
80423.8
66062.4
50423.3
36123.7
26240.0
19115.8
12985.3
8187.3
5227.6
3680.4
2795.8
2235.2
1874.8
1623.6
1438.0
1296.0
1175.9
1088.5
1030.2
972.0
921.0
862.8
790.0
713.5
633.4
527.9
436.8
345.8
269.4
203.9
142.0
80.1
0.0

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