

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: P638026

Luminaire Tested: **IFLD-S-SA6D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638026
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30634.4 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

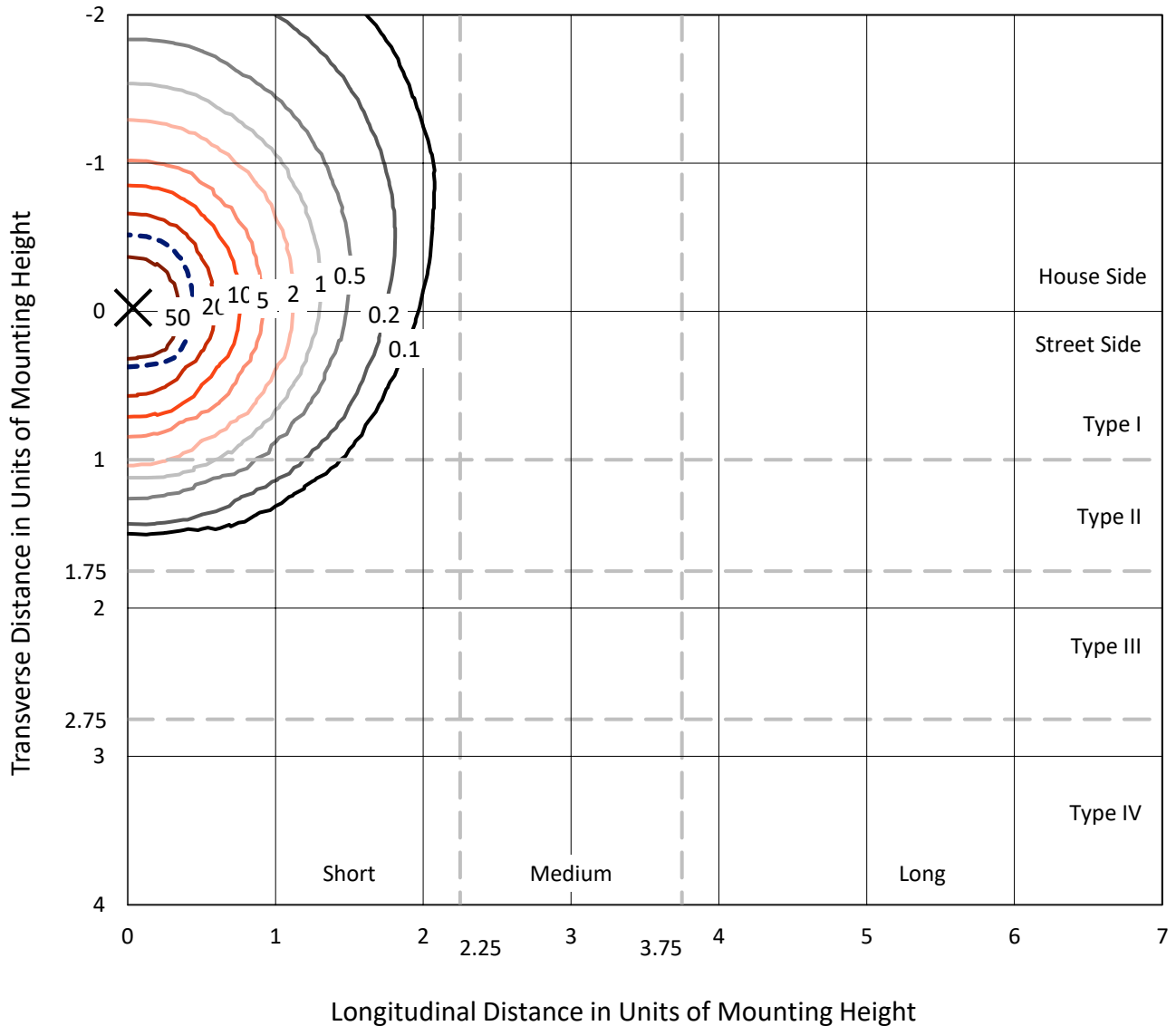
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

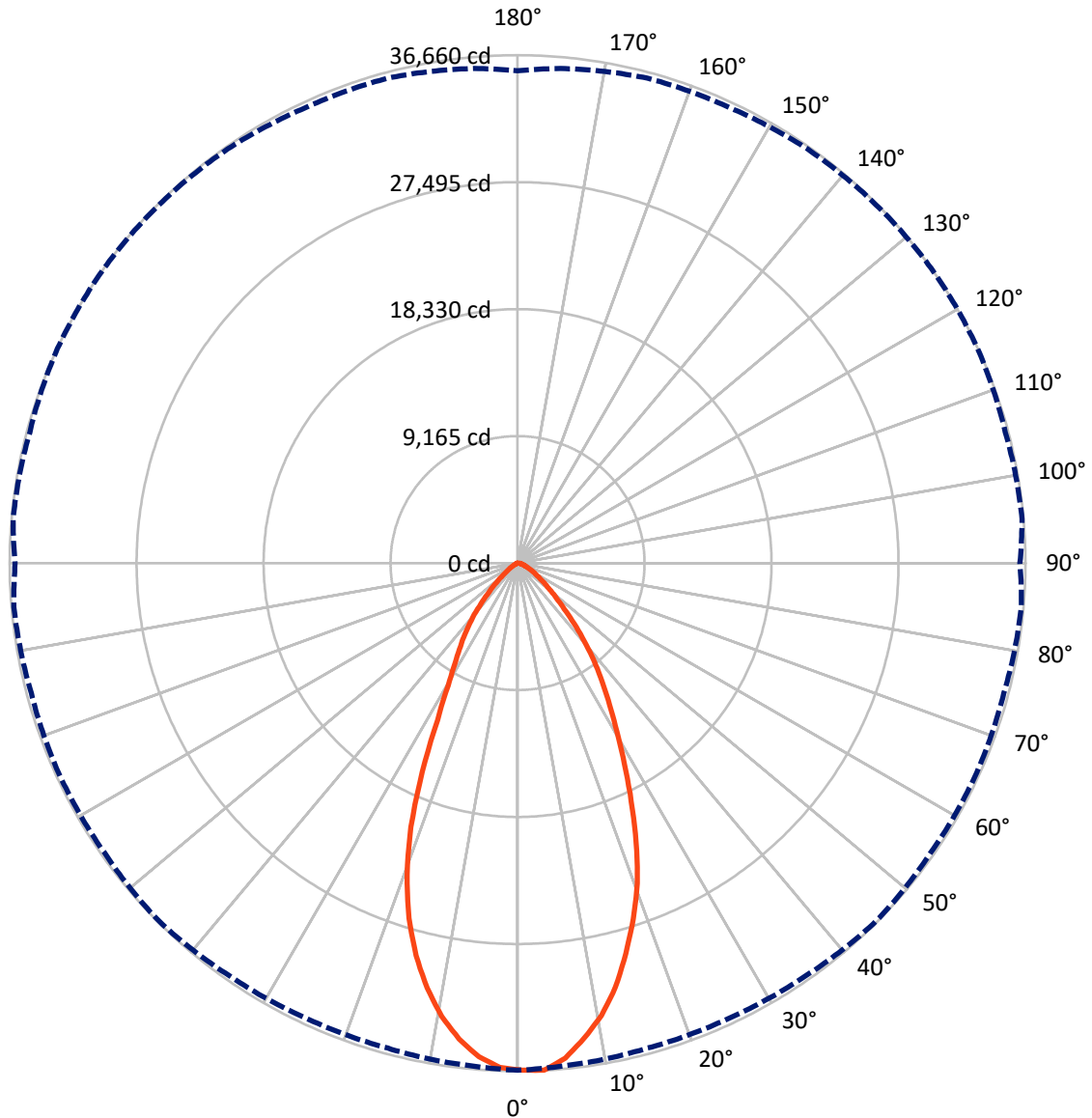
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 91.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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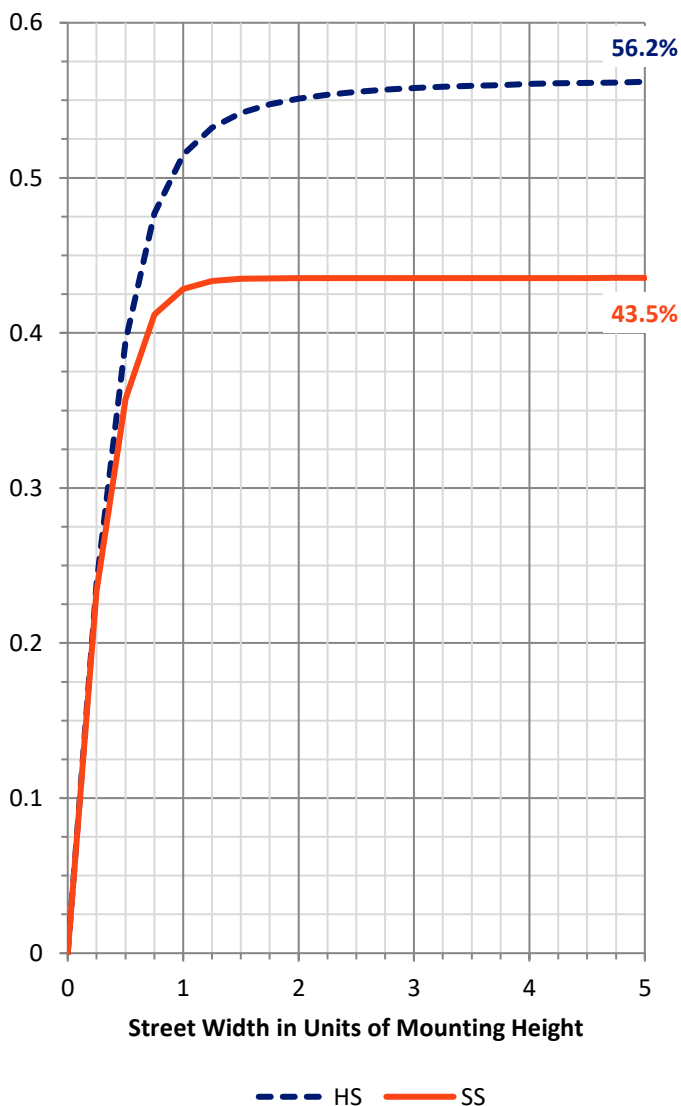
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17383.2	0.0	17383.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13251.2	0.0	13251.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	30634.4	0.0	30634.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3323.5	10.8
10°-20°	7922.4	25.9
20°-30°	8068.8	26.3
30°-40°	6016.9	19.6
40°-50°	3143.4	10.3
50°-60°	1322.1	4.3
60°-70°	540.0	1.8
70°-80°	227.2	0.7
80°-90°	70.0	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°	30634.4	100.0
0°-180°	30634.4	100.0



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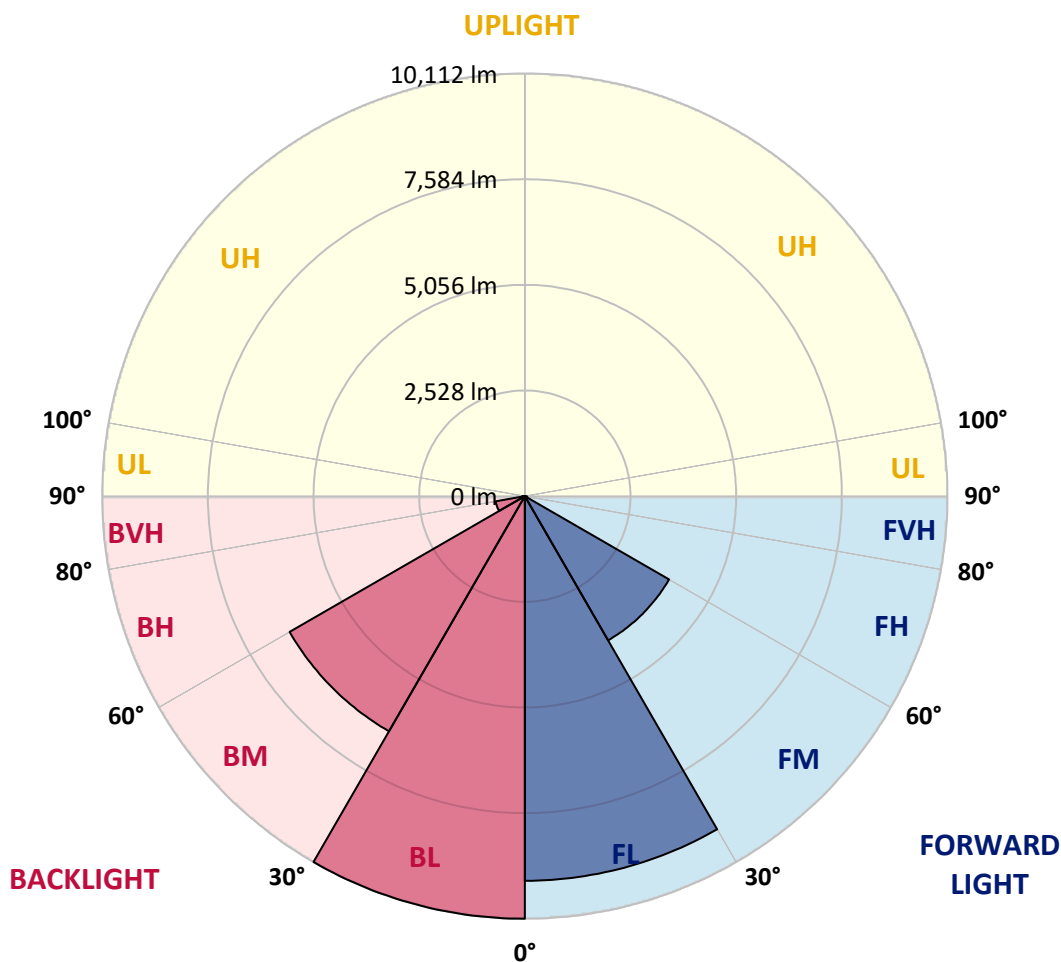
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9203.0	30.0			
FM (30°-60°)	3984.1	13.0			
FH (60°-80°)	57.6	0.2			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	10111.8	33.0	B5		
BM (30°-60°)	6498.3	21.2	B4/8500		
BH (60°-80°)	709.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	63.5	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7
2.5°	36604.6	36455.1	36242.6	36222.9	36333.1	36573.1	36419.7	36427.5	36333.1	36494.4
5°	36030.1	35888.4	35742.8	35550.0	35711.3	35813.6	35734.9	35648.4	35526.4	35683.8
7.5°	34944.0	34865.3	34648.8	34562.3	34660.7	34774.8	34605.6	34582.0	34412.7	34617.4
10°	33283.4	33251.9	33039.4	32988.2	33074.8	33247.9	33173.2	33157.4	33051.2	33031.5
12.5°	31559.8	31437.8	31174.1	31158.4	31288.2	31548.0	31347.3	31154.4	31213.5	31264.6
15°	27120.9	26991.1	27644.3	28671.4	29210.5	29190.8	29249.8	29017.7	28946.8	28970.5
17.5°	21560.6	21340.2	21576.3	23166.1	25727.9	27215.4	26806.1	26306.4	26038.8	25861.7
20°	18609.2	18621.1	18577.8	18987.0	20584.7	23976.8	23878.4	22914.3	22564.1	22418.5
22.5°	16814.8	16747.9	16653.5	16783.3	17212.3	19203.4	20537.5	19652.1	19530.1	19368.7
25°	15055.8	15055.8	14941.7	15071.6	15193.5	15221.1	16559.0	16921.1	16685.0	16685.0
27.5°	13532.9	13454.2	13403.1	13462.1	13300.8	12525.5	12694.7	14548.2	14386.8	14288.5
30°	12021.8	11998.2	11911.6	11990.4	11392.2	10518.6	10164.4	12277.6	12446.8	12411.4
32.5°	9924.4	10018.8	10404.5	10526.5	9503.3	8799.0	8460.5	10192.0	10868.8	10841.3
35°	6744.8	6823.5	7264.3	8720.3	7878.1	7374.4	7276.1	8106.4	9220.0	9326.3
37.5°	5371.5	5359.7	5485.6	5745.3	6331.6	6209.6	6182.1	6398.5	7520.0	7567.3
40°	4427.0	4411.3	4407.3	4194.9	4049.3	5162.9	5088.1	4958.3	5930.2	6024.7
42.5°	3569.2	3584.9	3596.7	3132.4	2919.9	3982.4	3939.1	3805.3	4651.3	4761.5
45°	2801.8	2797.9	2821.5	2333.5	2274.5	2546.0	2943.5	2837.2	3510.1	3628.2
47.5°	1452.1	1503.2	1822.0	1806.2	1833.8	1806.2	2227.3	2199.7	2640.5	2829.4
50°	975.9	991.7	1019.2	1023.1	1444.2	1330.1	1511.1	1711.8	1849.5	2140.7
52.5°	755.5	767.4	696.5	653.2	885.4	983.8	991.7	1184.5	1290.7	1585.9
55°	421.1	472.2	507.6	511.6	488.0	728.0	724.1	877.5	960.2	1156.9
57.5°	55.1	66.9	102.3	330.6	326.6	405.3	507.6	637.5	684.7	846.1
60°	3.9	7.9	11.8	51.2	216.4	236.1	346.3	397.4	476.2	594.2
62.5°	0.0	0.0	3.9	11.8	43.3	137.7	181.0	208.6	279.4	389.6
65°	0.0	0.0	3.9	7.9	15.7	51.2	70.8	114.1	165.3	240.0
67.5°	0.0	0.0	3.9	7.9	11.8	19.7	31.5	51.2	86.6	145.6
70°	0.0	0.0	3.9	7.9	11.8	15.7	23.6	31.5	47.2	78.7
72.5°	0.0	0.0	3.9	3.9	7.9	19.7	19.7	23.6	31.5	43.3
75°	0.0	0.0	3.9	7.9	11.8	19.7	19.7	19.7	23.6	27.5
77.5°	0.0	0.0	3.9	7.9	11.8	19.7	15.7	19.7	19.7	19.7
80°	0.0	0.0	3.9	7.9	11.8	19.7	23.6	19.7	15.7	15.7
82.5°	0.0	0.0	3.9	11.8	11.8	27.5	27.5	27.5	11.8	11.8
85°	0.0	0.0	7.9	11.8	19.7	31.5	31.5	23.6	11.8	7.9
87.5°	0.0	0.0	3.9	7.9	7.9	15.7	23.6	19.7	7.9	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°
36600.7	0°	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7	36600.7
36258.3	2.5°	36549.5	36451.1	36636.1	36659.7	36581.0	36482.6	36254.4	36234.7	35837.3
35455.5	5°	35856.9	35695.6	35813.6	35892.3	35864.8	35758.6	35664.1	35577.5	35219.4
34153.0	7.5°	34566.2	34507.2	34562.3	34621.3	34735.4	34621.3	34582.0	34491.4	34137.3
32870.2	10°	33133.8	33023.6	33232.2	33204.7	33173.2	33141.7	32976.4	32992.2	32575.0
31123.0	12.5°	31374.8	31189.9	31390.6	31414.2	31390.6	31280.4	31095.4	31174.1	30792.4
28761.9	15°	29009.8	28990.1	29135.7	29230.2	29297.1	29179.0	29116.1	29155.4	28927.2
25724.0	17.5°	26105.7	26361.5	26837.6	26998.9	27002.9	27124.9	27089.5	27042.2	26873.0
22359.4	20°	22690.0	23181.9	23913.8	24665.4	24881.8	24779.5	24732.3	24818.9	24567.0
19199.5	22.5°	19537.9	19959.0	20809.0	21906.9	22540.4	22603.4	22591.6	22516.8	22418.5
16669.2	25°	16862.0	17235.9	18050.5	19053.9	20269.9	20450.9	20458.8	20435.1	20348.6
14375.0	27.5°	14603.3	15055.8	15504.4	16401.6	17696.3	18444.0	18349.5	18322.0	18290.5
12439.0	30°	12557.0	13127.6	13548.7	14107.5	15268.3	16279.6	16378.0	16330.8	16256.0
10837.4	32.5°	10935.7	11274.2	11809.3	12187.1	13021.4	14166.5	14544.3	14508.8	14441.9
9393.2	35°	9527.0	9660.8	10081.8	10502.9	11057.7	12167.4	12726.2	12647.5	12635.7
7653.8	37.5°	7846.7	8295.3	8527.4	8952.4	9342.0	10203.8	10975.1	10939.7	10943.6
6154.5	40°	6335.6	6595.3	7055.7	7413.8	7771.9	8401.5	9259.4	9283.0	9275.1
4765.4	42.5°	4863.8	5115.7	5599.7	5989.3	6308.0	6697.6	7516.1	7543.7	7579.1
3710.8	45°	3797.4	3958.7	4312.9	4718.2	5056.6	5292.8	5914.5	6091.6	6095.5
2876.6	47.5°	2947.4	3132.4	3384.2	3773.8	4104.3	4273.6	4726.1	4966.1	4954.3
2207.6	50°	2313.9	2483.1	2687.7	2994.6	3352.7	3486.5	3821.0	4057.1	4045.3
1664.6	52.5°	1770.8	1987.2	2168.3	2404.4	2754.6	2868.7	3108.8	3380.3	3340.9
1219.9	55°	1341.9	1562.2	1731.5	1928.2	2247.0	2392.6	2557.8	2774.3	2782.1
944.4	57.5°	1011.3	1239.6	1393.0	1593.7	1833.8	1995.1	2121.0	2353.2	2349.3
645.4	60°	724.1	920.8	1105.8	1314.3	1499.3	1684.2	1770.8	1991.2	1999.0
456.5	62.5°	523.4	708.3	885.4	1066.4	1231.7	1412.7	1491.4	1664.6	1688.2
299.1	65°	366.0	495.8	700.5	838.2	1023.1	1156.9	1259.2	1408.8	1436.3
177.1	67.5°	236.1	358.1	554.9	676.8	846.1	960.2	1066.4	1184.5	1219.9
114.1	70°	141.7	271.5	413.2	543.0	696.5	798.8	901.1	1003.5	1023.1
55.1	72.5°	90.5	188.9	299.1	440.7	558.8	669.0	759.5	834.2	775.2
35.4	75°	51.2	129.9	236.1	346.3	452.5	558.8	633.6	672.9	539.1
23.6	77.5°	31.5	94.4	192.8	279.4	350.2	448.6	495.8	519.4	385.6
15.7	80°	19.7	70.8	161.3	228.2	228.2	330.6	385.6	405.3	279.4
11.8	82.5°	15.7	51.2	125.9	173.1	153.5	247.9	303.0	306.9	196.8
7.9	85°	11.8	39.4	78.7	114.1	106.2	173.1	177.1	196.8	129.9
7.9	87.5°	7.9	23.6	47.2	66.9	59.0	82.6	94.4	106.2	70.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
36600.7
35526.4
34932.2
34062.5
32433.4
30682.2
28651.7
26621.2
24386.0
22229.6
20057.4
18105.5
16161.6
14264.9
12505.9
10817.7
9137.4
7461.0
5993.2
4911.0
4045.3
3344.9
2782.1
2341.4
1979.4
1680.3
1428.5
1216.0
1007.4
720.1
511.6
362.0
259.7
181.0
118.1
63.0
0.0

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