

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: P638027

Luminaire Tested: **IFLD-S-SA6E-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-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: 35452.6 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

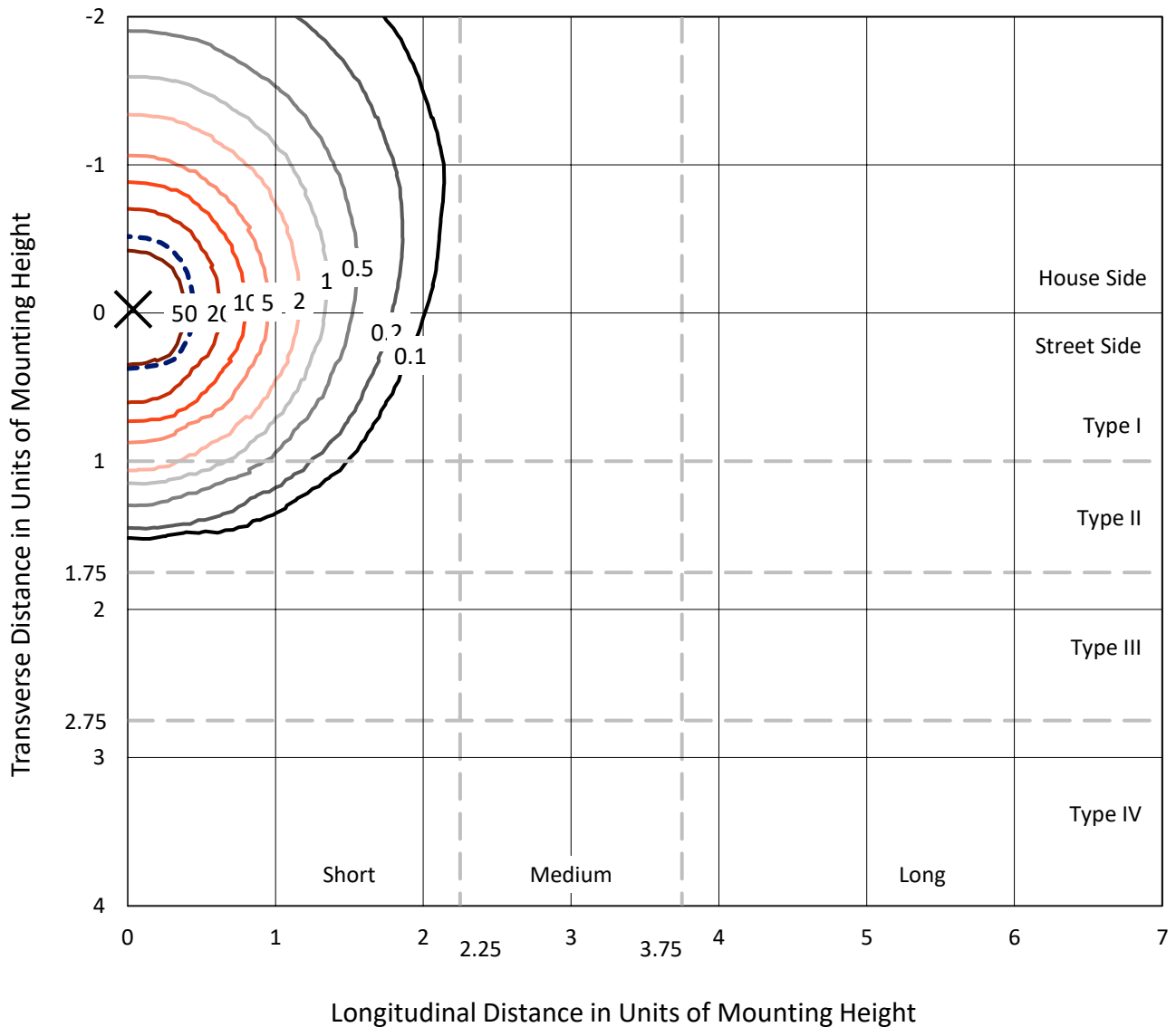
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

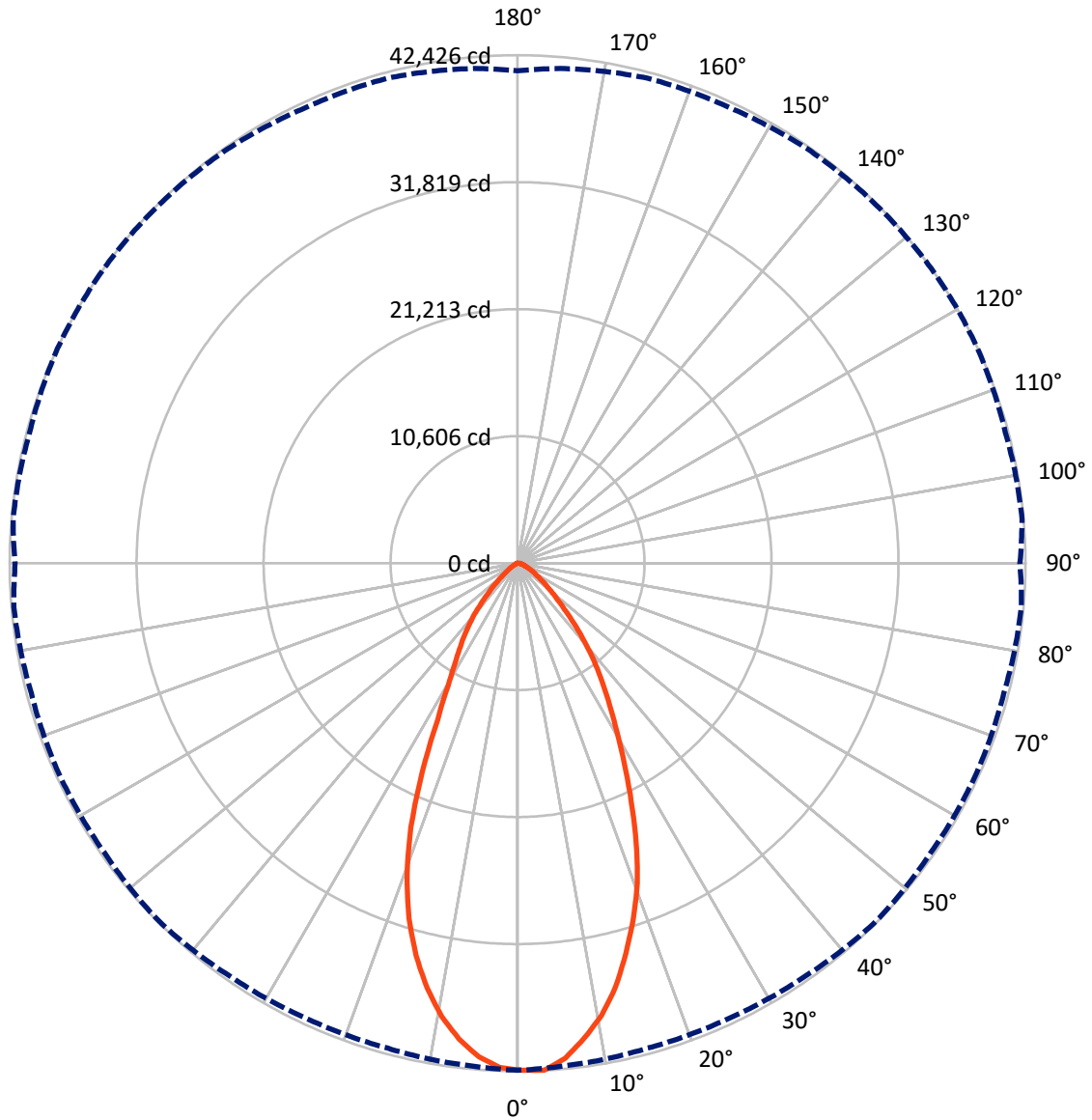
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 105.9 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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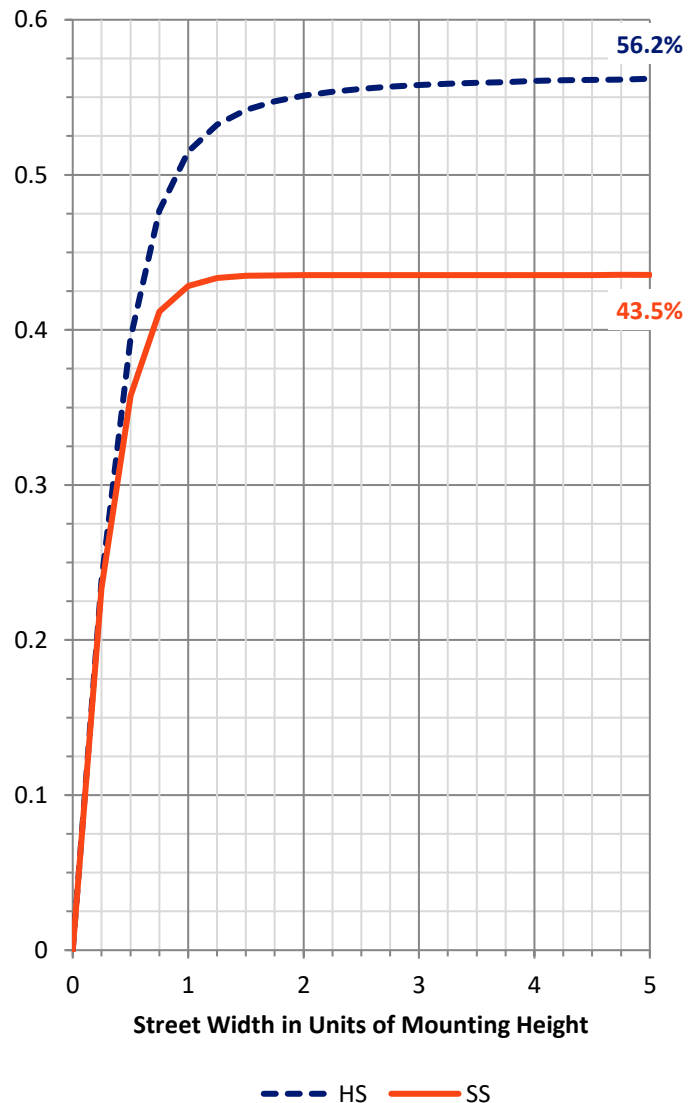
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20117.2	0.0	20117.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	15335.4	0.0	15335.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	35452.6	0.0	35452.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3846.2	10.8
10°-20°	9168.5	25.9
20°-30°	9337.9	26.3
30°-40°	6963.2	19.6
40°-50°	3637.8	10.3
50°-60°	1530.1	4.3
60°-70°	624.9	1.8
70°-80°	263.0	0.7
80°-90°	81.0	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°	35452.6	100.0
0°-180°	35452.6	100.0



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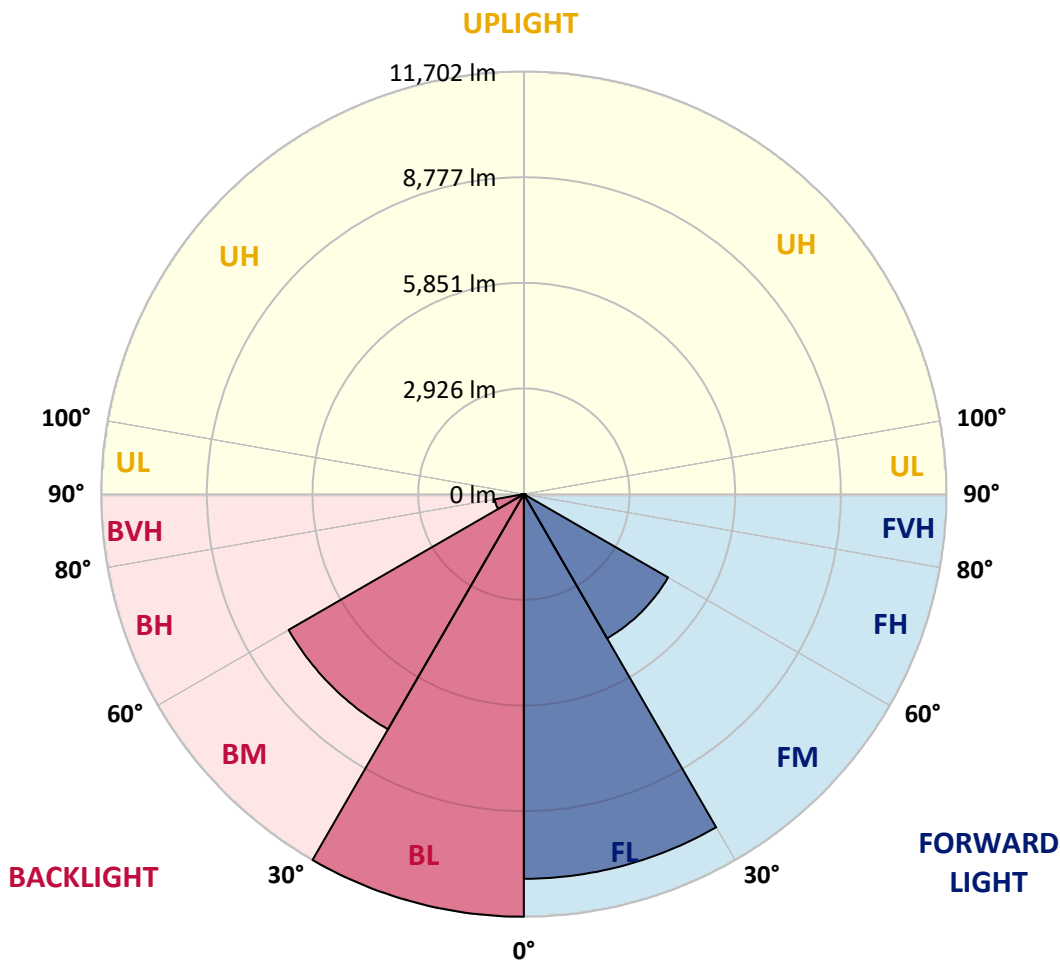
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10650.4	30.0			
FM (30°-60°)	4610.7	13.0			
FH (60°-80°)	66.7	0.2			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	11702.2	33.0	B5		
BM (30°-60°)	7520.4	21.2	B4/8500		
BH (60°-80°)	821.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	73.5	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°	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2
2.5°	42361.8	42188.7	41942.8	41920.0	42047.6	42325.4	42147.7	42156.9	42047.6	42234.3
5°	41696.9	41532.9	41364.4	41141.3	41328.0	41446.4	41355.3	41255.2	41114.0	41296.1
7.5°	40440.0	40348.9	40098.4	39998.2	40112.1	40244.2	40048.3	40021.0	39825.2	40062.0
10°	38518.2	38481.7	38235.8	38176.6	38276.8	38477.2	38390.7	38372.4	38249.5	38226.7
12.5°	36523.5	36382.3	36077.2	36059.0	36209.3	36509.8	36277.6	36054.4	36122.7	36181.9
15°	31386.5	31236.2	31992.2	33180.8	33804.7	33782.0	33850.3	33581.6	33499.6	33526.9
17.5°	24951.6	24696.6	24969.9	26809.7	29774.4	31495.8	31022.2	30443.8	30134.2	29929.2
20°	21536.1	21549.8	21499.7	21973.3	23822.2	27747.8	27634.0	26518.2	26112.9	25944.4
22.5°	19459.5	19382.0	19272.7	19423.0	19919.4	22223.8	23767.6	22742.9	22601.8	22415.0
25°	17423.8	17423.8	17291.7	17442.0	17583.2	17615.1	19163.4	19582.4	19309.2	19309.2
27.5°	15661.4	15570.3	15511.1	15579.4	15392.7	14495.5	14691.4	16836.3	16649.6	16535.8
30°	13912.6	13885.3	13785.1	13876.2	13184.0	12173.0	11763.1	14208.6	14404.5	14363.5
32.5°	11485.3	11594.6	12040.9	12182.1	10998.0	10182.9	9791.2	11795.0	12578.3	12546.4
35°	7805.6	7896.7	8406.8	10091.8	9117.2	8534.3	8420.4	9381.3	10670.1	10793.1
37.5°	6216.3	6202.6	6348.3	6648.9	7327.5	7186.3	7154.4	7404.9	8702.8	8757.4
40°	5123.3	5105.1	5100.5	4854.6	4686.1	5974.9	5888.4	5738.1	6863.0	6972.3
42.5°	4130.5	4148.7	4162.4	3625.0	3379.1	4608.7	4558.6	4403.8	5382.9	5510.4
45°	3242.5	3237.9	3265.3	2700.6	2632.2	2946.5	3406.4	3283.5	4062.2	4198.8
47.5°	1680.4	1739.6	2108.5	2090.3	2122.2	2090.3	2577.6	2545.7	3055.8	3274.4
50°	1129.4	1147.6	1179.5	1184.1	1671.3	1539.3	1748.8	1981.0	2140.4	2477.4
52.5°	874.4	888.0	806.1	756.0	1024.7	1138.5	1147.6	1370.8	1493.7	1835.3
55°	487.3	546.5	587.5	592.0	564.7	842.5	837.9	1015.6	1111.2	1338.9
57.5°	63.8	77.4	118.4	382.5	378.0	469.1	587.5	737.8	792.4	979.1
60°	4.6	9.1	13.7	59.2	250.5	273.2	400.8	460.0	551.0	687.7
62.5°	0.0	0.0	4.6	13.7	50.1	159.4	209.5	241.4	323.3	450.9
65°	0.0	0.0	4.6	9.1	18.2	59.2	82.0	132.1	191.3	277.8
67.5°	0.0	0.0	4.6	9.1	13.7	22.8	36.4	59.2	100.2	168.5
70°	0.0	0.0	4.6	9.1	13.7	18.2	27.3	36.4	54.6	91.1
72.5°	0.0	0.0	4.6	4.6	9.1	22.8	22.8	27.3	36.4	50.1
75°	0.0	0.0	4.6	9.1	13.7	22.8	22.8	22.8	27.3	31.9
77.5°	0.0	0.0	4.6	9.1	13.7	22.8	18.2	22.8	22.8	22.8
80°	0.0	0.0	4.6	9.1	13.7	22.8	27.3	22.8	18.2	18.2
82.5°	0.0	0.0	4.6	13.7	13.7	31.9	31.9	31.9	13.7	13.7
85°	0.0	0.0	9.1	13.7	22.8	36.4	36.4	27.3	13.7	9.1
87.5°	0.0	0.0	4.6	9.1	9.1	18.2	27.3	22.8	9.1	4.6
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°
42357.2	0°	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2	42357.2
41961.0	2.5°	42298.0	42184.2	42398.2	42425.5	42334.5	42220.6	41956.5	41933.7	41473.7
41032.0	5°	41496.5	41309.8	41446.4	41537.5	41505.6	41382.7	41273.4	41173.2	40758.8
39524.6	7.5°	40002.8	39934.5	39998.2	40066.5	40198.6	40066.5	40021.0	39916.3	39506.4
38040.0	10°	38345.1	38217.6	38459.0	38427.1	38390.7	38354.2	38162.9	38181.2	37698.4
36018.0	12.5°	36309.5	36095.4	36327.7	36355.0	36327.7	36200.2	35986.1	36077.2	35635.5
33285.6	15°	33572.5	33549.7	33718.2	33827.5	33904.9	33768.3	33695.4	33741.0	33476.8
29769.8	17.5°	30211.6	30507.6	31058.6	31245.3	31249.9	31391.1	31350.1	31295.4	31099.6
25876.1	20°	26258.7	26827.9	27675.0	28544.8	28795.3	28676.9	28622.2	28722.4	28430.9
22219.2	22.5°	22610.9	23098.1	24081.8	25352.4	26085.6	26158.5	26144.8	26058.3	25944.4
19291.0	25°	19514.1	19946.7	20889.4	22050.7	23457.9	23667.4	23676.5	23649.2	23549.0
16635.9	27.5°	16900.1	17423.8	17943.0	18981.3	20479.6	21344.8	21235.5	21203.7	21167.2
14395.4	30°	14532.0	15192.3	15679.6	16326.3	17669.7	18840.1	18954.0	18899.3	18812.8
12541.9	32.5°	12655.7	13047.4	13666.7	14103.9	15069.4	16394.6	16831.8	16790.8	16713.4
10870.5	35°	11025.4	11180.2	11667.5	12154.8	12796.9	14081.1	14727.8	14636.7	14623.1
8857.6	37.5°	9080.8	9599.9	9868.6	10360.5	10811.3	11808.7	12701.2	12660.3	12664.8
7122.5	40°	7332.0	7632.6	8165.4	8579.8	8994.3	9722.9	10715.7	10743.0	10733.9
5515.0	42.5°	5628.8	5920.3	6480.4	6931.3	7300.1	7751.0	8698.2	8730.1	8771.1
4294.5	45°	4394.7	4581.4	4991.2	5460.3	5852.0	6125.2	6844.7	7049.7	7054.2
3329.0	47.5°	3411.0	3625.0	3916.5	4367.3	4749.9	4945.7	5469.4	5747.2	5733.6
2554.8	50°	2677.8	2873.6	3110.4	3465.6	3880.1	4034.9	4422.0	4695.2	4681.6
1926.4	52.5°	2049.3	2299.8	2509.3	2782.5	3187.8	3319.9	3597.7	3911.9	3866.4
1411.8	55°	1552.9	1808.0	2003.8	2231.5	2600.4	2768.9	2960.1	3210.6	3219.7
1093.0	57.5°	1170.4	1434.5	1612.1	1844.4	2122.2	2308.9	2454.6	2723.3	2718.8
746.9	60°	837.9	1065.6	1279.7	1521.1	1735.1	1949.1	2049.3	2304.3	2313.5
528.3	62.5°	605.7	819.7	1024.7	1234.1	1425.4	1634.9	1726.0	1926.4	1953.7
346.1	65°	423.5	573.8	810.6	970.0	1184.1	1338.9	1457.3	1630.4	1662.2
204.9	67.5°	273.2	414.4	642.1	783.3	979.1	1111.2	1234.1	1370.8	1411.8
132.1	70°	163.9	314.2	478.2	628.5	806.1	924.5	1042.9	1161.3	1184.1
63.8	72.5°	104.7	218.6	346.1	510.1	646.7	774.2	878.9	965.5	897.1
41.0	75°	59.2	150.3	273.2	400.8	523.7	646.7	733.2	778.7	623.9
27.3	77.5°	36.4	109.3	223.1	323.3	405.3	519.2	573.8	601.1	446.3
18.2	80°	22.8	82.0	186.7	264.1	264.1	382.5	446.3	469.1	323.3
13.7	82.5°	18.2	59.2	145.7	200.4	177.6	286.9	350.7	355.2	227.7
9.1	85°	13.7	45.5	91.1	132.1	123.0	200.4	204.9	227.7	150.3
9.1	87.5°	9.1	27.3	54.6	77.4	68.3	95.6	109.3	123.0	82.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
42357.2
41114.0
40426.3
39419.9
37534.5
35507.9
33158.0
30808.2
28221.5
25725.8
23212.0
20953.2
18703.5
16508.4
14472.8
12519.1
10574.5
8634.5
6935.8
5683.5
4681.6
3870.9
3219.7
2709.7
2290.7
1944.6
1653.1
1407.2
1165.8
833.4
592.0
419.0
300.6
209.5
136.6
72.9
0.0

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