

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: P638007

Luminaire Tested: **IFLD-L-SA7D-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638007  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30235.5 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

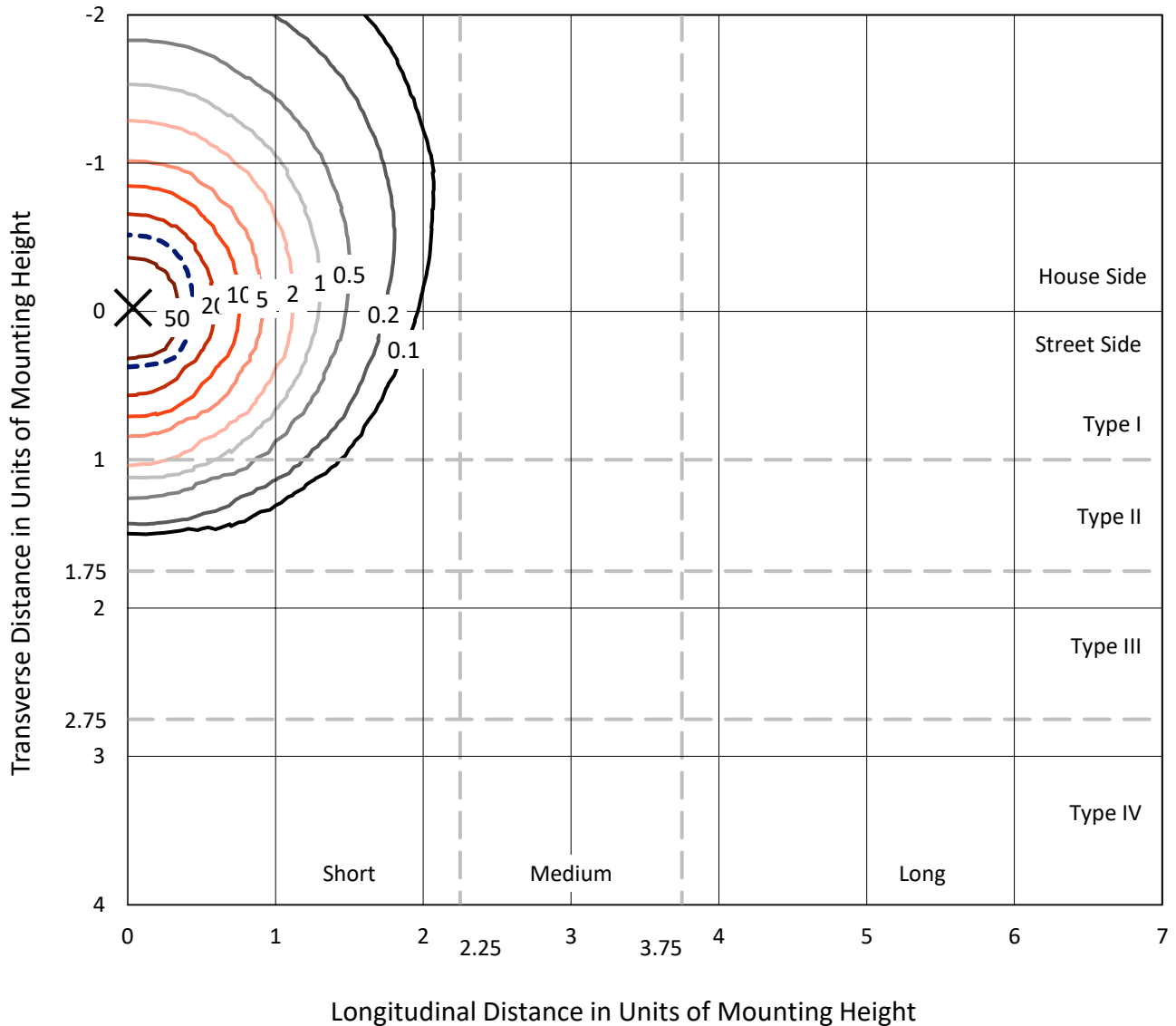
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

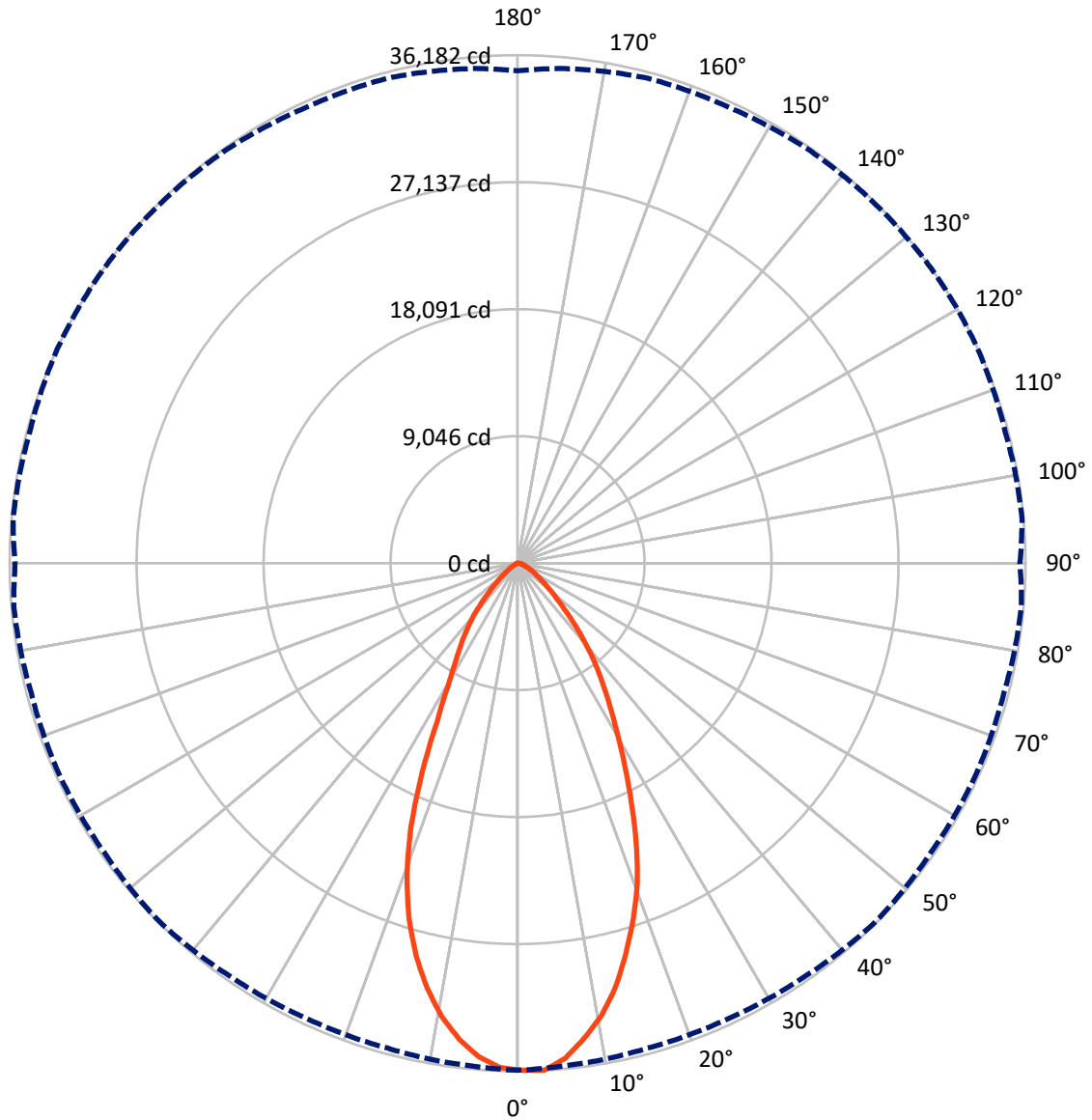
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 90.3 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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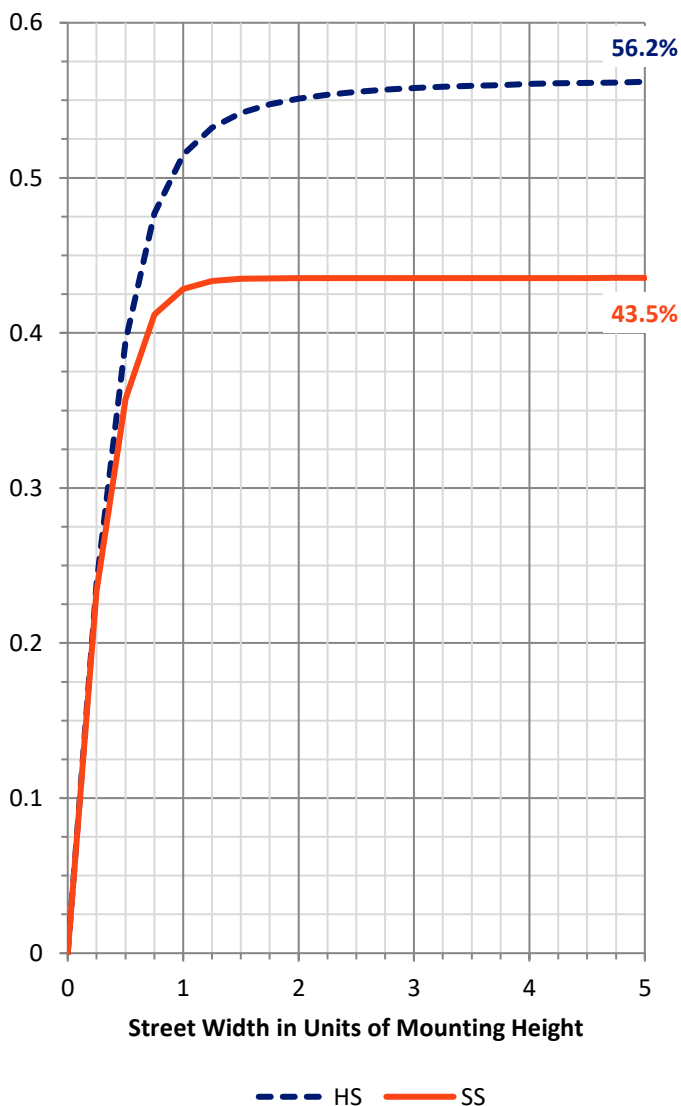
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17156.8	0.0	17156.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	13078.7	0.0	13078.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	30235.5	0.0	30235.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3280.2	10.8
10°-20°	7819.3	25.9
20°-30°	7963.8	26.3
30°-40°	5938.6	19.6
40°-50°	3102.5	10.3
50°-60°	1304.9	4.3
60°-70°	532.9	1.8
70°-80°	224.3	0.7
80°-90°	69.1	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°	30235.5	100.0
0°-180°	30235.5	100.0



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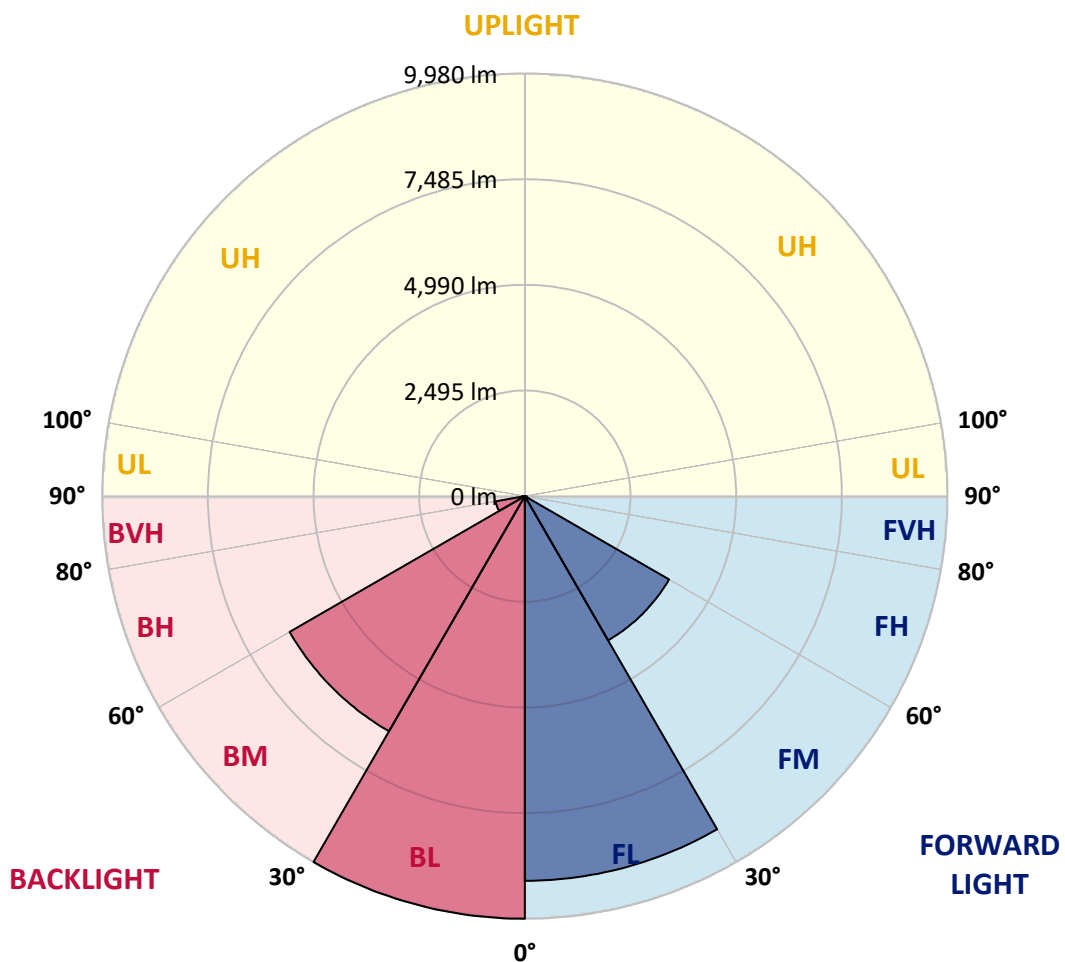
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9083.1	30.0			
FM (30°-60°)	3932.2	13.0			
FH (60°-80°)	56.9	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	9980.1	33.0	B5		
BM (30°-60°)	6413.7	21.2	B4/8500		
BH (60°-80°)	700.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	62.7	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°	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1
2.5°	36128.0	35980.4	35770.6	35751.2	35860.0	36096.9	35945.4	35953.2	35860.0	36019.2
5°	35560.9	35421.1	35277.4	35087.1	35246.3	35347.3	35269.6	35184.2	35063.8	35219.1
7.5°	34489.0	34411.3	34197.7	34112.2	34209.3	34322.0	34154.9	34131.6	33964.6	34166.6
10°	32850.0	32818.9	32609.2	32558.7	32644.1	32815.0	32741.2	32725.7	32620.8	32601.4
12.5°	31148.8	31028.4	30768.2	30752.7	30880.8	31137.2	30939.1	30748.8	30807.0	30857.5
15°	26767.8	26639.6	27284.3	28298.0	28830.1	28810.7	28869.0	28639.8	28569.9	28593.2
17.5°	21279.8	21062.3	21295.4	22864.5	25392.9	26861.0	26457.1	25963.8	25699.7	25524.9
20°	18366.9	18378.6	18335.9	18739.8	20316.6	23664.6	23567.5	22615.9	22270.2	22126.5
22.5°	16595.9	16529.8	16436.6	16564.8	16988.1	18953.4	20270.0	19396.2	19275.8	19116.5
25°	14859.8	14859.8	14747.1	14875.3	14995.7	15022.9	16343.4	16700.7	16467.7	16467.7
27.5°	13356.7	13279.0	13228.5	13286.8	13127.6	12362.4	12529.4	14358.7	14199.5	14102.4
30°	11865.3	11842.0	11756.5	11834.2	11243.9	10381.6	10032.1	12117.7	12284.8	12249.8
32.5°	9795.2	9888.4	10269.0	10389.4	9379.6	8684.4	8350.4	10059.3	10727.3	10700.1
35°	6657.0	6734.7	7169.7	8606.7	7775.6	7278.4	7181.3	8000.8	9100.0	9204.8
37.5°	5301.5	5289.9	5414.1	5670.5	6249.2	6128.8	6101.6	6315.2	7422.1	7468.7
40°	4369.4	4353.8	4350.0	4140.2	3996.5	5095.7	5021.9	4893.7	5853.0	5946.2
42.5°	3522.7	3538.2	3549.9	3091.6	2881.8	3930.5	3887.8	3755.7	4590.8	4699.5
45°	2765.3	2761.4	2784.8	2303.1	2244.9	2512.9	2905.2	2800.3	3464.4	3580.9
47.5°	1433.2	1483.6	1798.2	1782.7	1809.9	1782.7	2198.3	2171.1	2606.1	2792.5
50°	963.2	978.7	1005.9	1009.8	1425.4	1312.8	1491.4	1689.5	1825.4	2112.8
52.5°	745.7	757.4	687.4	644.7	873.9	971.0	978.7	1169.1	1273.9	1565.2
55°	415.6	466.1	501.0	504.9	481.6	718.5	714.6	866.1	947.7	1141.9
57.5°	54.4	66.0	101.0	326.2	322.4	400.0	501.0	629.2	675.8	835.0
60°	3.9	7.8	11.7	50.5	213.6	233.0	341.8	392.3	470.0	586.5
62.5°	0.0	0.0	3.9	11.7	42.7	135.9	178.7	205.8	275.8	384.5
65°	0.0	0.0	3.9	7.8	15.5	50.5	69.9	112.6	163.1	236.9
67.5°	0.0	0.0	3.9	7.8	11.7	19.4	31.1	50.5	85.4	143.7
70°	0.0	0.0	3.9	7.8	11.7	15.5	23.3	31.1	46.6	77.7
72.5°	0.0	0.0	3.9	3.9	7.8	19.4	19.4	23.3	31.1	42.7
75°	0.0	0.0	3.9	7.8	11.7	19.4	19.4	19.4	23.3	27.2
77.5°	0.0	0.0	3.9	7.8	11.7	19.4	15.5	19.4	19.4	19.4
80°	0.0	0.0	3.9	7.8	11.7	19.4	23.3	19.4	15.5	15.5
82.5°	0.0	0.0	3.9	11.7	11.7	27.2	27.2	27.2	11.7	11.7
85°	0.0	0.0	7.8	11.7	19.4	31.1	31.1	23.3	11.7	7.8
87.5°	0.0	0.0	3.9	7.8	7.8	15.5	23.3	19.4	7.8	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°
36124.1	0°	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1	36124.1
35786.2	2.5°	36073.6	35976.5	36159.0	36182.3	36104.7	36007.6	35782.3	35762.9	35370.6
34993.9	5°	35390.0	35230.8	35347.3	35425.0	35397.8	35292.9	35199.7	35114.3	34760.8
33708.3	7.5°	34116.1	34057.8	34112.2	34170.5	34283.1	34170.5	34131.6	34042.3	33692.8
32442.1	10°	32702.4	32593.6	32799.5	32772.3	32741.2	32710.1	32547.0	32562.6	32150.9
30717.7	12.5°	30966.3	30783.7	30981.8	31005.1	30981.8	30873.1	30690.5	30768.2	30391.5
28387.4	15°	28632.1	28612.6	28756.3	28849.5	28915.6	28799.1	28736.9	28775.8	28550.5
25389.0	17.5°	25765.7	26018.2	26488.1	26647.4	26651.3	26771.7	26736.7	26690.1	26523.1
22068.3	20°	22394.5	22880.0	23602.4	24344.2	24557.8	24456.9	24410.3	24495.7	24247.1
18949.5	22.5°	19283.5	19699.1	20538.0	21621.6	22246.9	22309.1	22297.4	22223.6	22126.5
16452.2	25°	16642.5	17011.4	17815.4	18805.8	20005.9	20184.6	20192.4	20169.1	20083.6
14187.9	27.5°	14413.1	14859.8	15302.5	16188.1	17465.9	18203.8	18110.6	18083.4	18052.3
12277.0	30°	12393.5	12956.7	13372.2	13923.8	15069.5	16067.7	16164.8	16118.2	16044.4
10696.2	32.5°	10793.3	11127.4	11655.6	12028.4	12851.8	13982.0	14354.9	14319.9	14253.9
9270.9	35°	9402.9	9535.0	9950.5	10366.1	10913.7	12009.0	12560.5	12482.8	12471.2
7554.2	37.5°	7744.5	8187.2	8416.4	8835.9	9220.4	10070.9	10832.2	10797.2	10801.1
6074.4	40°	6253.1	6509.4	6963.8	7317.3	7670.7	8292.1	9138.8	9162.1	9154.3
4703.4	42.5°	4800.5	5049.1	5526.8	5911.3	6225.9	6610.4	7418.2	7445.4	7480.4
3662.5	45°	3748.0	3907.2	4256.7	4656.8	4990.8	5223.8	5837.5	6012.3	6016.1
2839.1	47.5°	2909.0	3091.6	3340.1	3724.7	4050.9	4217.9	4664.6	4901.5	4889.8
2178.9	50°	2283.7	2450.7	2652.7	2955.6	3309.1	3441.1	3771.3	4004.3	3992.6
1642.9	52.5°	1747.8	1961.4	2140.0	2373.1	2718.7	2831.4	3068.3	3336.3	3297.4
1204.0	55°	1324.4	1541.9	1708.9	1903.1	2217.7	2361.4	2524.5	2738.1	2745.9
932.1	57.5°	998.2	1223.4	1374.9	1573.0	1809.9	1969.1	2093.4	2322.6	2318.7
637.0	60°	714.6	908.8	1091.4	1297.2	1479.8	1662.3	1747.8	1965.2	1973.0
450.5	62.5°	516.6	699.1	873.9	1052.5	1215.7	1394.3	1472.0	1642.9	1666.2
295.2	65°	361.2	489.4	691.3	827.3	1009.8	1141.9	1242.8	1390.4	1417.6
174.8	67.5°	233.0	353.4	547.6	668.0	835.0	947.7	1052.5	1169.1	1204.0
112.6	70°	139.8	268.0	407.8	536.0	687.4	788.4	889.4	990.4	1009.8
54.4	72.5°	89.3	186.4	295.2	435.0	551.5	660.3	749.6	823.4	765.1
35.0	75°	50.5	128.2	233.0	341.8	446.6	551.5	625.3	664.1	532.1
23.3	77.5°	31.1	93.2	190.3	275.8	345.7	442.8	489.4	512.7	380.6
15.5	80°	19.4	69.9	159.2	225.3	225.3	326.2	380.6	400.0	275.8
11.7	82.5°	15.5	50.5	124.3	170.9	151.5	244.7	299.1	302.9	194.2
7.8	85°	11.7	38.8	77.7	112.6	104.9	170.9	174.8	194.2	128.2
7.8	87.5°	7.8	23.3	46.6	66.0	58.3	81.6	93.2	104.9	69.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
36124.1  
35063.8  
34477.3  
33619.0  
32011.0  
30282.7  
28278.6  
26274.5  
24068.5  
21940.1  
19796.2  
17869.8  
15951.1  
14079.1  
12343.0  
10676.8  
9018.4  
7363.9  
5915.2  
4847.1  
3992.6  
3301.3  
2745.9  
2310.9  
1953.6  
1658.4  
1409.9  
1200.1  
994.3  
710.8  
504.9  
357.3  
256.3  
178.7  
116.5  
62.1  
0.0

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