

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: P637988

Luminaire Tested: **IFLD-S-SA2E-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637988  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11218.8 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

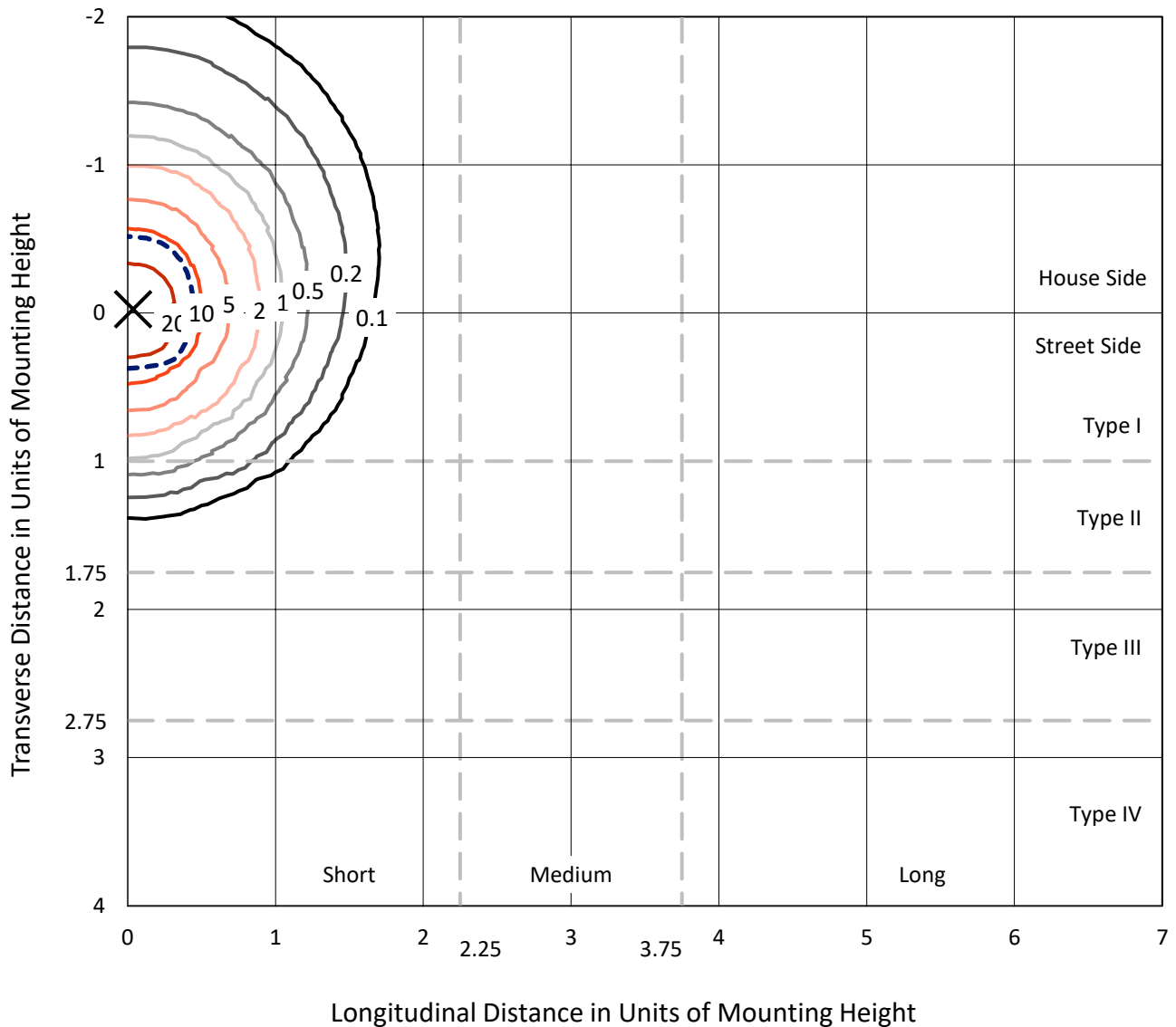
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

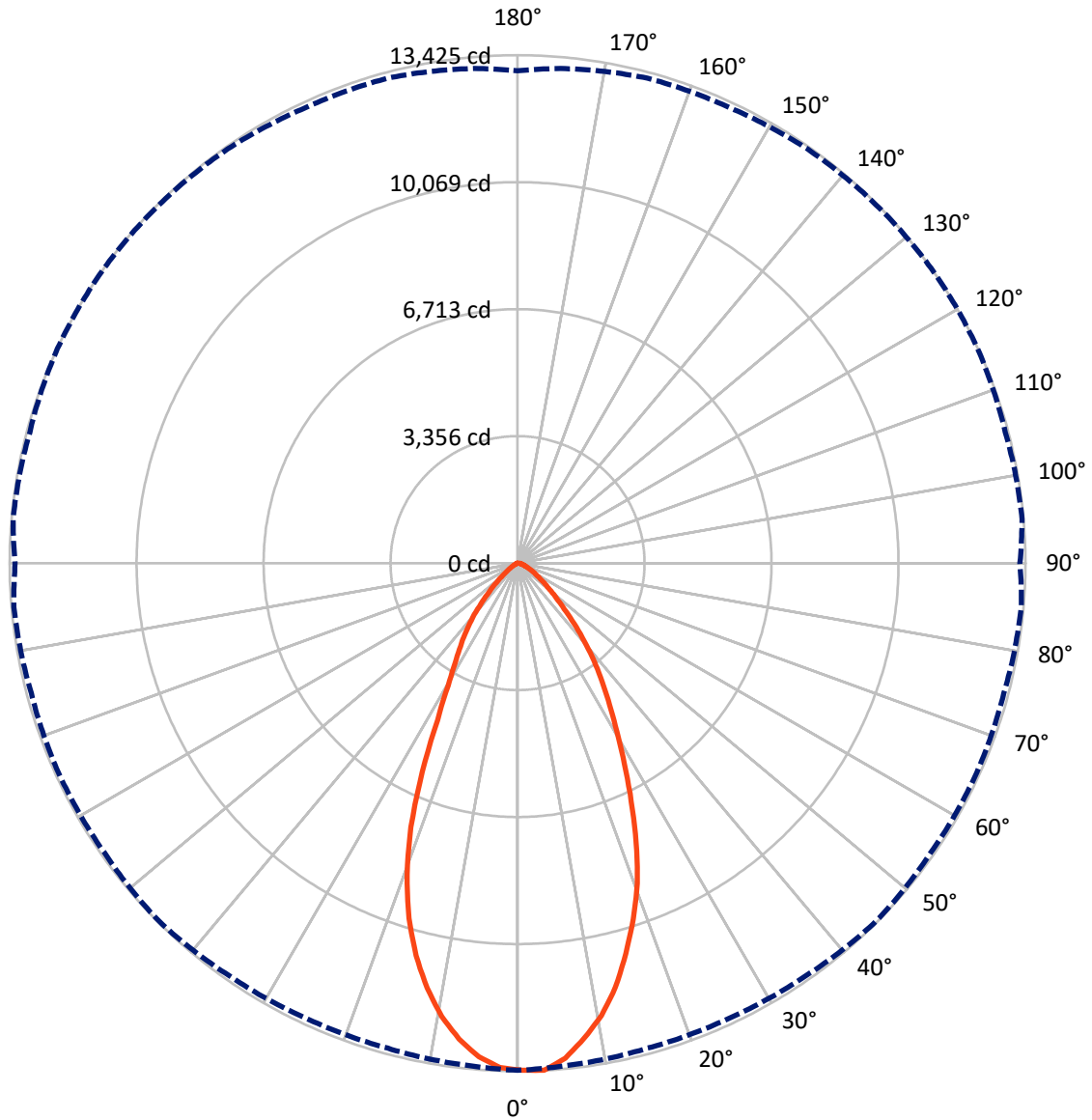
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.5 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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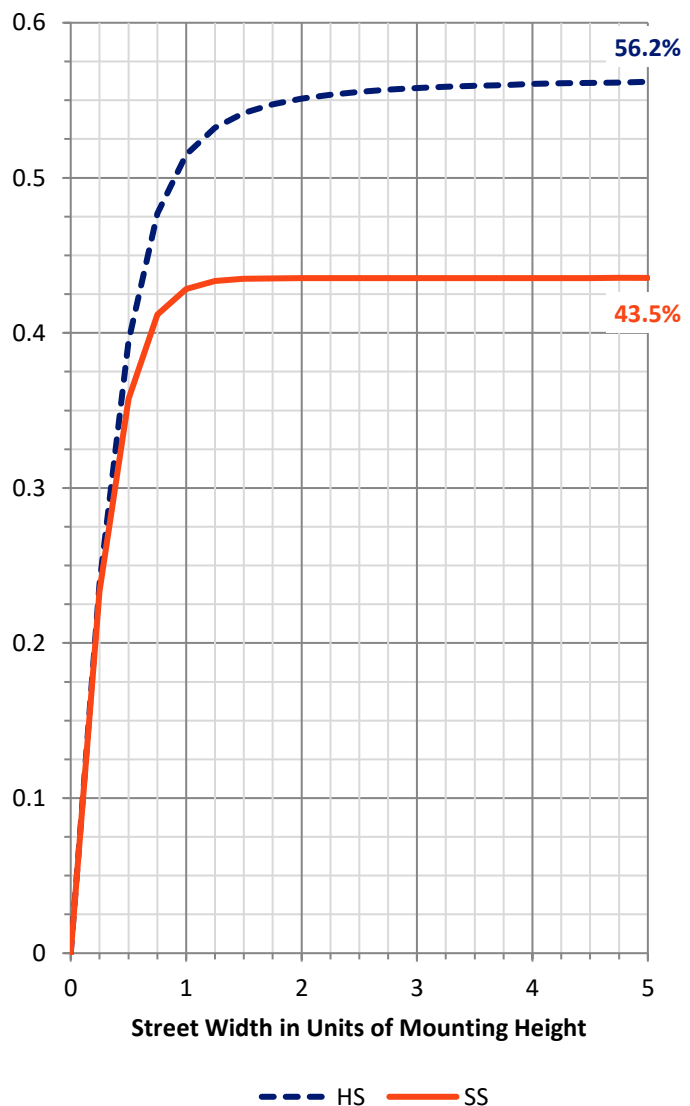
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6366.0	0.0	6366.0
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	4852.8	0.0	4852.8
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	11218.8	0.0	11218.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1217.1	10.8
10°-20°	2901.3	25.9
20°-30°	2954.9	26.3
30°-40°	2203.5	19.6
40°-50°	1151.2	10.3
50°-60°	484.2	4.3
60°-70°	197.7	1.8
70°-80°	83.2	0.7
80°-90°	25.6	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°	11218.8	100.0
0°-180°	11218.8	100.0



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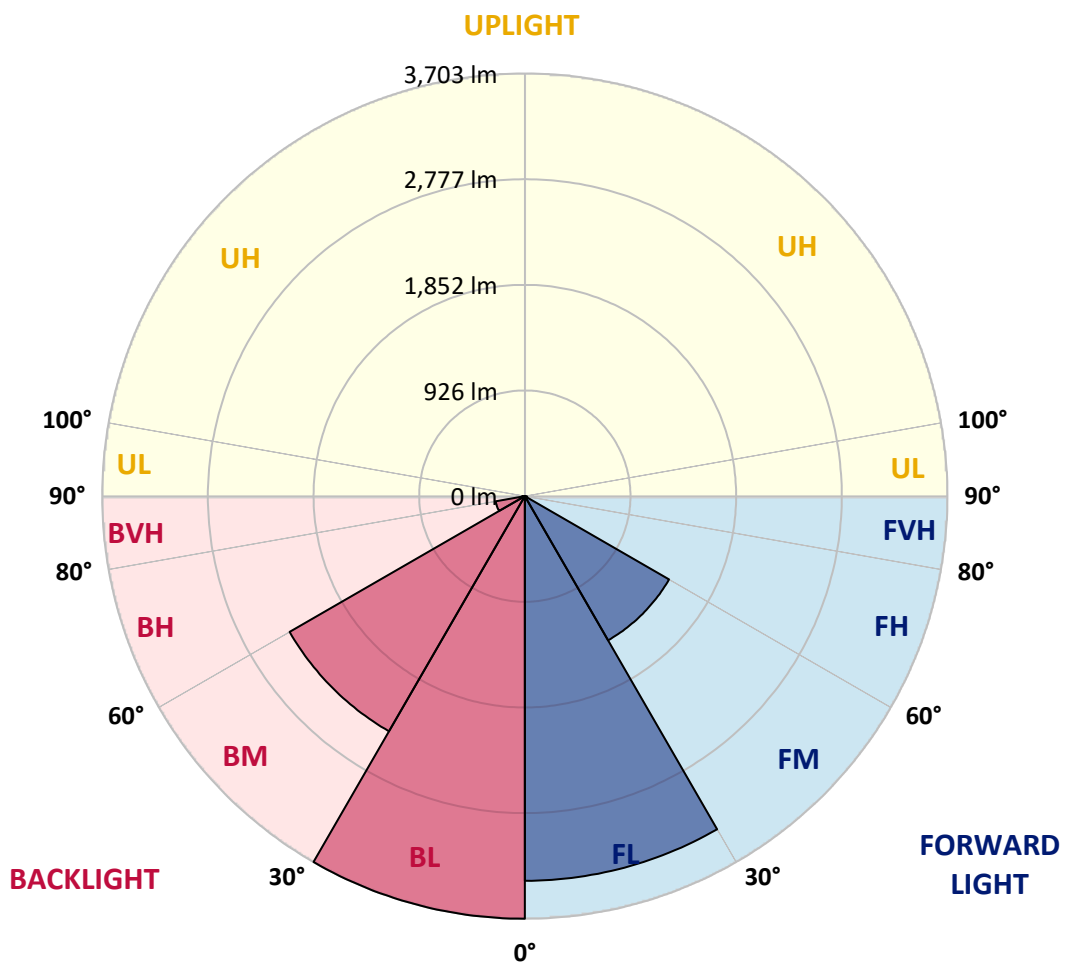
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3370.3	30.0			
FM (30°-60°)	1459.1	13.0			
FH (60°-80°)	21.1	0.2			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	3703.1	33.0	B4/5000		
BM (30°-60°)	2379.8	21.2	B2/2500		
BH (60°-80°)	259.8	2.3	B1/500		G1/500
BVH (80°-90°)	23.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8
2.5°	13405.2	13350.4	13272.6	13265.4	13305.8	13393.7	13337.5	13340.4	13305.8	13364.8
5°	13194.8	13142.9	13089.6	13019.0	13078.1	13115.5	13086.7	13055.0	13010.3	13068.0
7.5°	12797.1	12768.2	12689.0	12657.3	12693.3	12735.1	12673.1	12664.5	12602.5	12677.4
10°	12188.9	12177.4	12099.6	12080.8	12112.5	12175.9	12148.6	12142.8	12103.9	12096.7
12.5°	11557.7	11513.0	11416.5	11410.7	11458.3	11553.4	11479.9	11409.3	11430.9	11449.6
15°	9932.1	9884.6	10123.8	10499.9	10697.4	10690.2	10711.8	10626.7	10600.8	10609.4
17.5°	7895.8	7815.1	7901.6	8483.8	9422.0	9966.7	9816.8	9633.8	9535.8	9471.0
20°	6815.0	6819.3	6803.5	6953.4	7538.4	8780.7	8744.7	8391.6	8263.3	8210.0
22.5°	6157.9	6133.4	6098.8	6146.3	6303.4	7032.6	7521.2	7196.9	7152.2	7093.1
25°	5513.7	5513.7	5471.9	5519.4	5564.1	5574.2	6064.2	6196.8	6110.3	6110.3
27.5°	4956.0	4927.2	4908.4	4930.0	4871.0	4587.1	4649.0	5327.8	5268.7	5232.7
30°	4402.6	4393.9	4362.2	4391.1	4172.0	3852.1	3722.4	4496.3	4558.2	4545.3
32.5°	3634.5	3669.1	3810.3	3855.0	3480.3	3222.3	3098.4	3732.5	3980.3	3970.3
35°	2470.1	2498.9	2660.3	3193.5	2885.1	2700.6	2664.6	2968.7	3376.5	3415.4
37.5°	1967.1	1962.8	2008.9	2104.0	2318.7	2274.1	2264.0	2343.2	2754.0	2771.3
40°	1621.2	1615.5	1614.0	1536.2	1482.9	1890.7	1863.4	1815.8	2171.8	2206.3
42.5°	1307.1	1312.9	1317.2	1147.1	1069.3	1458.4	1442.6	1393.6	1703.4	1743.7
45°	1026.1	1024.6	1033.3	854.6	833.0	932.4	1077.9	1039.0	1285.5	1328.7
47.5°	531.8	550.5	667.2	661.5	671.6	661.5	815.7	805.6	967.0	1036.2
50°	357.4	363.2	373.2	374.7	528.9	487.1	553.4	626.9	677.3	784.0
52.5°	276.7	281.0	255.1	239.2	324.2	360.3	363.2	433.8	472.7	580.8
55°	154.2	172.9	185.9	187.3	178.7	266.6	265.2	321.4	351.6	423.7
57.5°	20.2	24.5	37.5	121.1	119.6	148.4	185.9	233.5	250.8	309.8
60°	1.4	2.9	4.3	18.7	79.3	86.5	126.8	145.6	174.4	217.6
62.5°	0.0	0.0	1.4	4.3	15.9	50.4	66.3	76.4	102.3	142.7
65°	0.0	0.0	1.4	2.9	5.8	18.7	25.9	41.8	60.5	87.9
67.5°	0.0	0.0	1.4	2.9	4.3	7.2	11.5	18.7	31.7	53.3
70°	0.0	0.0	1.4	2.9	4.3	5.8	8.6	11.5	17.3	28.8
72.5°	0.0	0.0	1.4	1.4	2.9	7.2	7.2	8.6	11.5	15.9
75°	0.0	0.0	1.4	2.9	4.3	7.2	7.2	7.2	8.6	10.1
77.5°	0.0	0.0	1.4	2.9	4.3	7.2	5.8	7.2	7.2	7.2
80°	0.0	0.0	1.4	2.9	4.3	7.2	8.6	7.2	5.8	5.8
82.5°	0.0	0.0	1.4	4.3	4.3	10.1	10.1	10.1	4.3	4.3
85°	0.0	0.0	2.9	4.3	7.2	11.5	11.5	8.6	4.3	2.9
87.5°	0.0	0.0	1.4	2.9	2.9	5.8	8.6	7.2	2.9	1.4
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°
13403.8	0°	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8
13278.4	2.5°	13385.0	13349.0	13416.7	13425.4	13396.6	13360.5	13276.9	13269.7	13124.2
12984.4	5°	13131.4	13072.3	13115.5	13144.4	13134.3	13095.4	13060.8	13029.1	12897.9
12507.4	7.5°	12658.7	12637.1	12657.3	12678.9	12720.7	12678.9	12664.5	12631.3	12501.6
12037.6	10°	12134.1	12093.8	12170.2	12160.1	12148.6	12137.0	12076.5	12082.3	11929.5
11397.7	12.5°	11490.0	11422.2	11495.7	11504.4	11495.7	11455.4	11387.6	11416.5	11276.7
10533.1	15°	10623.9	10616.7	10670.0	10704.6	10729.1	10685.8	10662.8	10677.2	10593.6
9420.5	17.5°	9560.3	9654.0	9828.4	9887.5	9888.9	9933.6	9920.6	9903.3	9841.3
8188.4	20°	8309.4	8489.6	8757.6	9032.9	9112.1	9074.7	9057.4	9089.1	8996.8
7031.2	22.5°	7155.1	7309.3	7620.6	8022.7	8254.7	8277.7	8273.4	8246.0	8210.0
6104.5	25°	6175.2	6312.1	6610.4	6977.9	7423.2	7489.4	7492.3	7483.7	7452.0
5264.4	27.5°	5348.0	5513.7	5678.0	6006.5	6480.7	6754.5	6719.9	6709.8	6698.3
4555.3	30°	4598.6	4807.5	4961.7	5166.4	5591.5	5961.9	5997.9	5980.6	5953.2
3968.8	32.5°	4004.8	4128.8	4324.8	4463.1	4768.6	5188.0	5326.3	5313.4	5288.9
3439.9	35°	3488.9	3537.9	3692.1	3846.3	4049.5	4455.9	4660.5	4631.7	4627.4
2803.0	37.5°	2873.6	3037.9	3122.9	3278.5	3421.2	3736.8	4019.3	4006.3	4007.7
2253.9	40°	2320.2	2415.3	2583.9	2715.1	2846.2	3076.8	3390.9	3399.6	3396.7
1745.2	42.5°	1781.2	1873.4	2050.7	2193.4	2310.1	2452.8	2752.5	2762.6	2775.6
1359.0	45°	1390.7	1449.8	1579.5	1727.9	1851.8	1938.3	2166.0	2230.8	2232.3
1053.5	47.5°	1079.4	1147.1	1239.4	1382.0	1503.1	1565.0	1730.8	1818.7	1814.4
808.5	50°	847.4	909.3	984.3	1096.7	1227.8	1276.8	1399.3	1485.8	1481.5
609.6	52.5°	648.5	727.8	794.1	880.5	1008.8	1050.6	1138.5	1237.9	1223.5
446.7	55°	491.4	572.1	634.1	706.1	822.9	876.2	936.7	1016.0	1018.9
345.9	57.5°	370.4	453.9	510.2	583.6	671.6	730.6	776.8	861.8	860.3
236.3	60°	265.2	337.2	405.0	481.3	549.1	616.8	648.5	729.2	732.1
167.2	62.5°	191.7	259.4	324.2	390.5	451.1	517.4	546.2	609.6	618.2
109.5	65°	134.0	181.6	256.5	307.0	374.7	423.7	461.2	515.9	526.0
64.8	67.5°	86.5	131.1	203.2	247.9	309.8	351.6	390.5	433.8	446.7
41.8	70°	51.9	99.4	151.3	198.9	255.1	292.5	330.0	367.5	374.7
20.2	72.5°	33.1	69.2	109.5	161.4	204.6	245.0	278.1	305.5	283.9
13.0	75°	18.7	47.6	86.5	126.8	165.7	204.6	232.0	246.4	197.4
8.6	77.5°	11.5	34.6	70.6	102.3	128.3	164.3	181.6	190.2	141.2
5.8	80°	7.2	25.9	59.1	83.6	83.6	121.1	141.2	148.4	102.3
4.3	82.5°	5.8	18.7	46.1	63.4	56.2	90.8	111.0	112.4	72.1
2.9	85°	4.3	14.4	28.8	41.8	38.9	63.4	64.8	72.1	47.6
2.9	87.5°	2.9	8.6	17.3	24.5	21.6	30.3	34.6	38.9	25.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
13403.8
<i>13010.3</i>
12792.7
12474.2
11877.6
11236.3
10492.7
9749.1
8930.6
8140.8
7345.3
6630.5
5918.6
5224.0
4579.8
3961.6
3346.3
2732.3
2194.8
1798.5
1481.5
1224.9
1018.9
857.5
724.9
615.4
523.1
445.3
368.9
263.7
187.3
132.6
95.1
66.3
43.2
23.1
0.0

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