

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: P637846

Luminaire Tested: **IFLD-S-SA3C-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16264.1 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

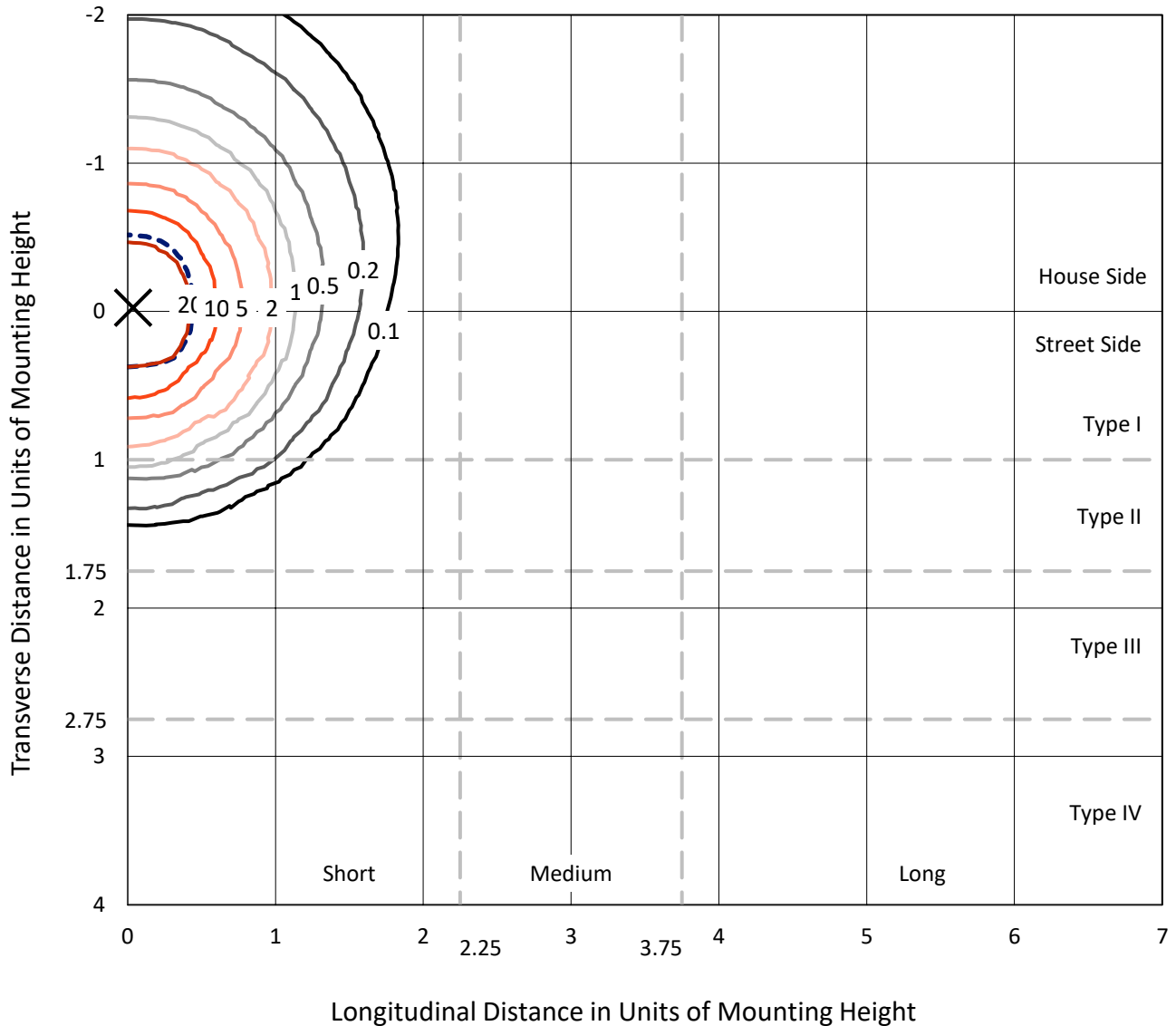
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

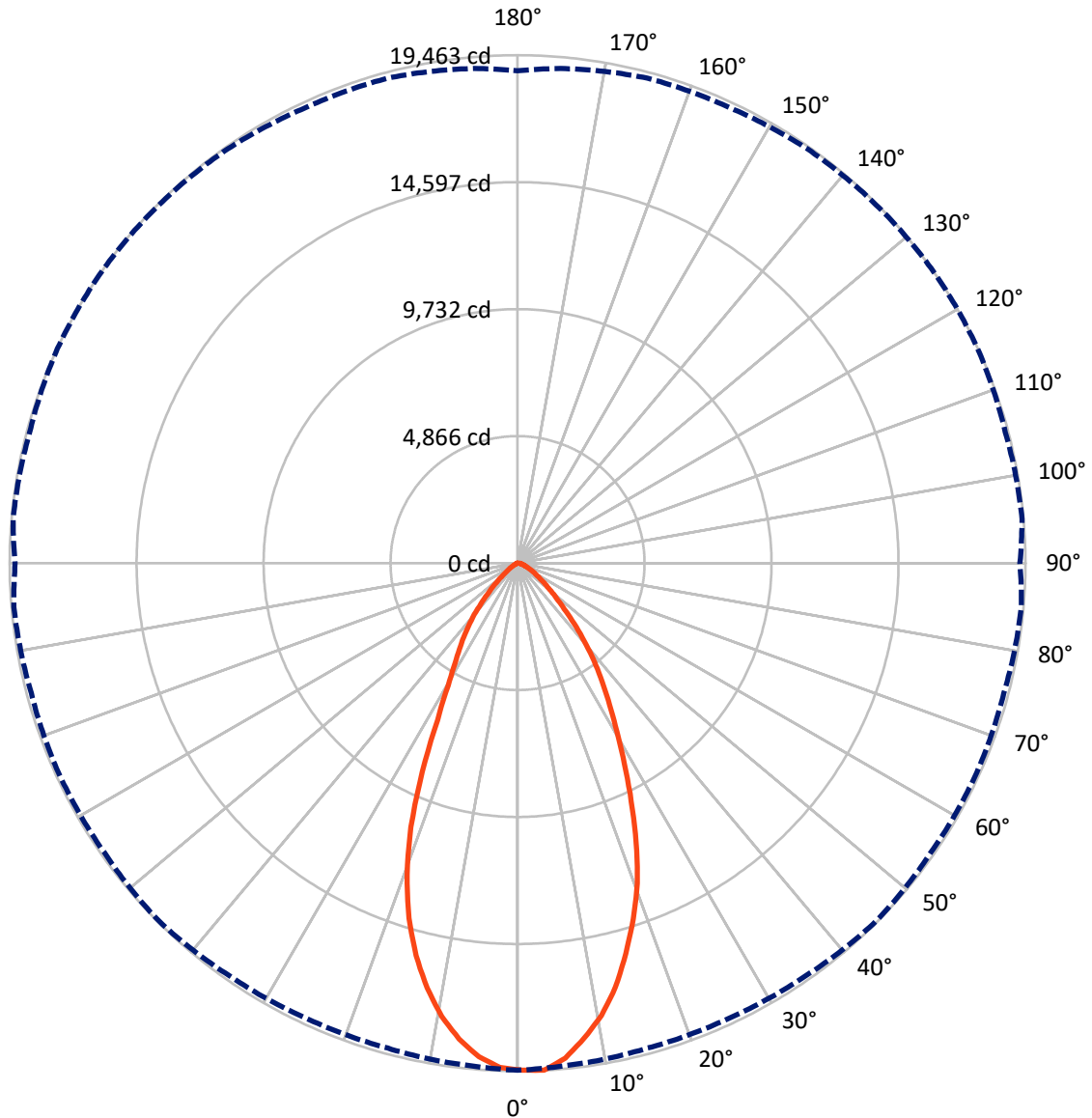
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.6 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	9228.9	0.0	9228.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7035.2	0.0	7035.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	16264.1	0.0	16264.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1764.5	10.8
10°-20°	4206.1	25.9
20°-30°	4283.8	26.3
30°-40°	3194.4	19.6
40°-50°	1668.9	10.3
50°-60°	701.9	4.3
60°-70°	286.7	1.8
70°-80°	120.6	0.7
80°-90°	37.2	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°	16264.1	100.0
0°-180°	16264.1	100.0



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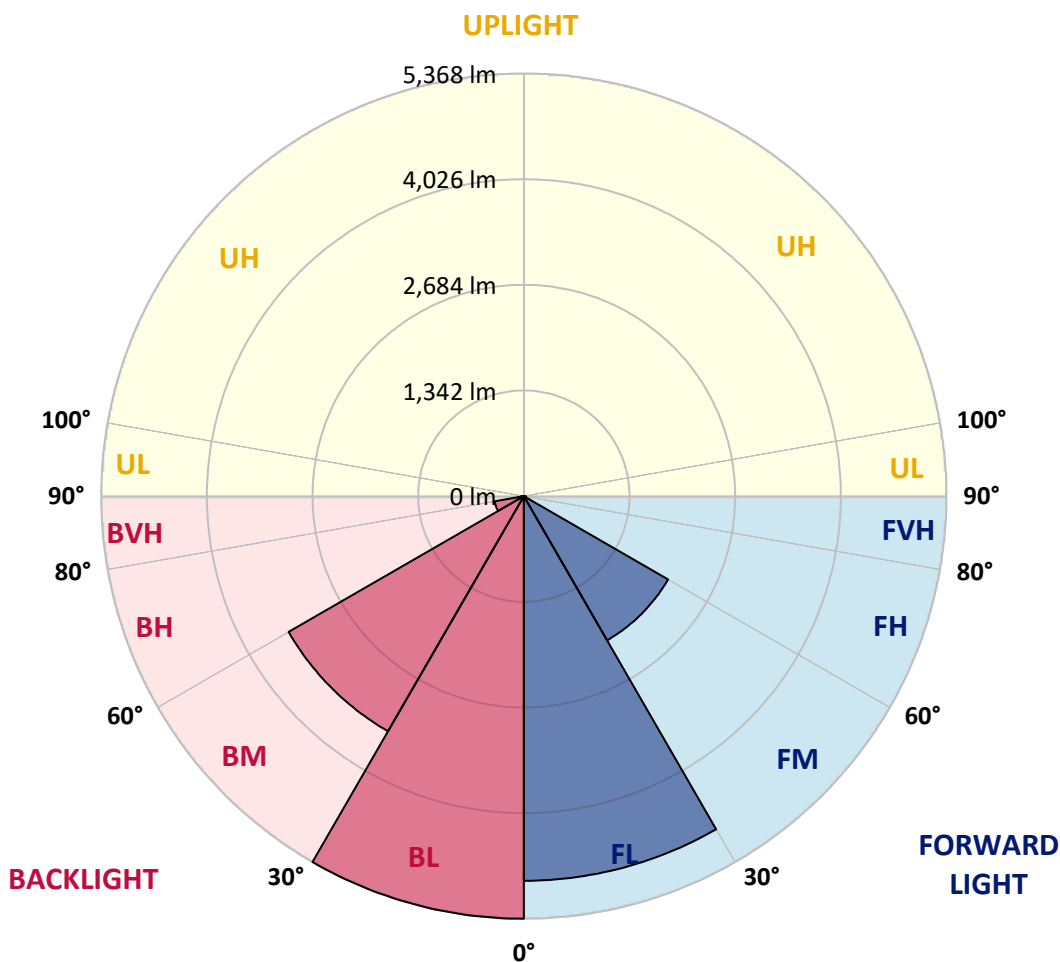
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4885.9	30.0			
FM	(30°-60°)	2115.2	13.0			
FH	(60°-80°)	30.6	0.2			G0/660
FVH	(80°-90°)	3.5	0.0			G0/10
BL	(0°-30°)	5368.5	33.0	B5		
BM	(30°-60°)	3450.0	21.2	B3/5000		
BH	(60°-80°)	376.7	2.3	B1/500		G1/500
BVH	(80°-90°)	33.7	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7
2.5°	19433.8	19354.4	19241.6	19231.1	19289.6	19417.1	19335.6	19339.8	19289.6	19375.3
5°	19128.8	19053.6	18976.3	18873.9	18959.5	19013.9	18972.1	18926.1	18861.4	18944.9
7.5°	18552.2	18510.4	18395.5	18349.5	18401.7	18462.3	18372.5	18359.9	18270.1	18378.7
10°	17670.5	17653.8	17541.0	17513.8	17559.8	17651.7	17612.0	17603.7	17547.2	17536.8
12.5°	16755.4	16690.7	16550.7	16542.3	16611.3	16749.2	16642.6	16540.2	16571.6	16598.7
15°	14398.8	14329.9	14676.7	15222.0	15508.2	15497.7	15529.1	15405.8	15368.2	15380.7
17.5°	11446.8	11329.8	11455.1	12299.2	13659.2	14449.0	14231.7	13966.3	13824.3	13730.3
20°	9879.9	9886.1	9863.1	10080.4	10928.6	12729.5	12677.3	12165.4	11979.5	11902.2
22.5°	8927.2	8891.7	8841.5	8910.5	9138.2	10195.3	10903.6	10433.5	10368.7	10283.1
25°	7993.3	7993.3	7932.7	8001.7	8066.4	8081.1	8791.4	8983.6	8858.2	8858.2
27.5°	7184.8	7143.0	7115.8	7147.2	7061.5	6649.9	6739.8	7723.8	7638.1	7585.9
30°	6382.5	6370.0	6324.0	6365.8	6048.3	5584.4	5396.4	6518.3	6608.2	6589.4
32.5°	5269.0	5319.1	5523.9	5588.6	5045.4	4671.5	4491.8	5411.0	5770.4	5755.8
35°	3580.9	3622.7	3856.7	4629.7	4182.6	3915.2	3862.9	4303.8	4895.0	4951.4
37.5°	2851.8	2845.5	2912.4	3050.2	3361.5	3296.8	3282.1	3397.0	3992.5	4017.5
40°	2350.4	2342.0	2339.9	2227.1	2149.8	2741.0	2701.3	2632.4	3148.4	3198.6
42.5°	1894.9	1903.3	1909.5	1663.0	1550.2	2114.3	2091.3	2020.3	2469.4	2527.9
45°	1487.5	1485.4	1498.0	1238.9	1207.6	1351.7	1562.7	1506.3	1863.6	1926.2
47.5°	770.9	798.1	967.3	958.9	973.6	958.9	1182.5	1167.9	1401.9	1502.1
50°	518.1	526.5	541.1	543.2	766.7	706.2	802.3	908.8	981.9	1136.5
52.5°	401.1	407.4	369.8	346.8	470.1	522.3	526.5	628.9	685.3	842.0
55°	223.5	250.7	269.5	271.6	259.1	386.5	384.4	465.9	509.8	614.2
57.5°	29.2	35.5	54.3	175.5	173.4	215.2	269.5	338.5	363.5	449.2
60°	2.1	4.2	6.3	27.2	114.9	125.4	183.9	211.0	252.8	315.5
62.5°	0.0	0.0	2.1	6.3	23.0	73.1	96.1	110.7	148.3	206.8
65°	0.0	0.0	2.1	4.2	8.4	27.2	37.6	60.6	87.7	127.4
67.5°	0.0	0.0	2.1	4.2	6.3	10.4	16.7	27.2	46.0	77.3
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.5	16.7	25.1	41.8
72.5°	0.0	0.0	2.1	2.1	4.2	10.4	10.4	12.5	16.7	23.0
75°	0.0	0.0	2.1	4.2	6.3	10.4	10.4	10.4	12.5	14.6
77.5°	0.0	0.0	2.1	4.2	6.3	10.4	8.4	10.4	10.4	10.4
80°	0.0	0.0	2.1	4.2	6.3	10.4	12.5	10.4	8.4	8.4
82.5°	0.0	0.0	2.1	6.3	6.3	14.6	14.6	14.6	6.3	6.3
85°	0.0	0.0	4.2	6.3	10.4	16.7	16.7	12.5	6.3	4.2
87.5°	0.0	0.0	2.1	4.2	4.2	8.4	12.5	10.4	4.2	2.1
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°
19431.7	0°	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7	19431.7
19249.9	2.5°	19404.5	19352.3	19450.5	19463.0	19421.3	19369.0	19247.9	19237.4	19026.4
18823.8	5°	19036.8	18951.2	19013.9	19055.7	19041.0	18984.6	18934.5	18888.5	18698.4
18132.2	7.5°	18351.6	18320.3	18349.5	18380.8	18441.4	18380.8	18359.9	18311.9	18123.9
17451.1	10°	17591.1	17532.6	17643.3	17628.7	17612.0	17595.3	17507.6	17515.9	17294.5
16523.5	12.5°	16657.2	16559.1	16665.6	16678.1	16665.6	16607.1	16508.9	16550.7	16348.0
15270.0	15°	15401.6	15391.2	15468.5	15518.6	15554.1	15491.5	15458.0	15478.9	15357.8
13657.1	17.5°	13859.8	13995.6	14248.4	14334.0	14336.1	14400.9	14382.1	14357.0	14267.2
11870.9	20°	12046.4	12307.5	12696.1	13095.1	13210.1	13155.7	13130.7	13176.6	13042.9
10193.2	22.5°	10372.9	10596.5	11047.7	11630.6	11967.0	12000.4	11994.1	11954.4	11902.2
8849.9	25°	8952.2	9150.7	9583.2	10115.9	10761.5	10857.6	10861.8	10849.2	10803.3
7631.9	27.5°	7753.0	7993.3	8231.5	8707.8	9395.2	9792.1	9742.0	9727.3	9710.6
6604.0	30°	6666.7	6969.6	7193.1	7489.8	8106.1	8643.0	8695.3	8670.2	8630.5
5753.7	32.5°	5805.9	5985.6	6269.7	6470.3	6913.2	7521.1	7721.7	7702.9	7667.4
4986.9	35°	5058.0	5129.0	5352.5	5576.1	5870.7	6459.8	6756.5	6714.7	6708.4
4063.5	37.5°	4165.9	4404.0	4527.3	4752.9	4959.8	5417.3	5826.8	5808.0	5810.1
3267.5	40°	3363.6	3501.5	3745.9	3936.1	4126.2	4460.5	4915.9	4928.4	4924.3
2530.0	42.5°	2582.3	2716.0	2972.9	3179.8	3349.0	3555.8	3990.4	4005.0	4023.8
1970.1	45°	2016.1	2101.7	2289.8	2505.0	2684.6	2810.0	3140.1	3234.1	3236.2
1527.2	47.5°	1564.8	1663.0	1796.7	2003.5	2179.0	2268.9	2509.1	2636.6	2630.3
1172.0	50°	1228.5	1318.3	1426.9	1589.9	1780.0	1851.0	2028.6	2154.0	2147.7
883.7	52.5°	940.1	1055.0	1151.2	1276.5	1462.4	1523.0	1650.5	1794.6	1773.7
647.7	55°	712.4	829.4	919.3	1023.7	1192.9	1270.2	1358.0	1472.9	1477.1
501.4	57.5°	536.9	658.1	739.6	846.1	973.6	1059.2	1126.1	1249.3	1247.3
342.6	60°	384.4	488.9	587.1	697.8	796.0	894.2	940.1	1057.1	1061.3
242.3	62.5°	277.9	376.1	470.1	566.2	653.9	750.0	791.8	883.7	896.3
158.8	65°	194.3	263.2	371.9	445.0	543.2	614.2	668.5	747.9	762.6
94.0	67.5°	125.4	190.1	294.6	359.3	449.2	509.8	566.2	628.9	647.7
60.6	70°	75.2	144.2	219.4	288.3	369.8	424.1	478.4	532.7	543.2
29.2	72.5°	48.1	100.3	158.8	234.0	296.7	355.2	403.2	442.9	411.6
18.8	75°	27.2	68.9	125.4	183.9	240.3	296.7	336.4	357.3	286.2
12.5	77.5°	16.7	50.1	102.4	148.3	185.9	238.2	263.2	275.8	204.7
8.4	80°	10.4	37.6	85.7	121.2	121.2	175.5	204.7	215.2	148.3
6.3	82.5°	8.4	27.2	66.9	91.9	81.5	131.6	160.9	163.0	104.5
4.2	85°	6.3	20.9	41.8	60.6	56.4	91.9	94.0	104.5	68.9
4.2	87.5°	4.2	12.5	25.1	35.5	31.3	43.9	50.1	56.4	37.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19431.7
<i>18861.4</i>
18545.9
18084.2
17219.2
16289.5
15211.5
14133.5
12946.8
11801.9
10648.7
9612.4
8580.4
7573.4
6639.5
5743.2
4851.1
3961.1
3181.9
2607.3
2147.7
1775.8
1477.1
1243.1
1050.9
892.1
758.4
645.6
534.8
382.3
271.6
192.2
137.9
96.1
62.7
33.4
0.0

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