

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: P638022

Luminaire Tested: **IFLD-S-SA3E-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18072.6 lumens
Efficiency: N/A
Efficacy: 77.9 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

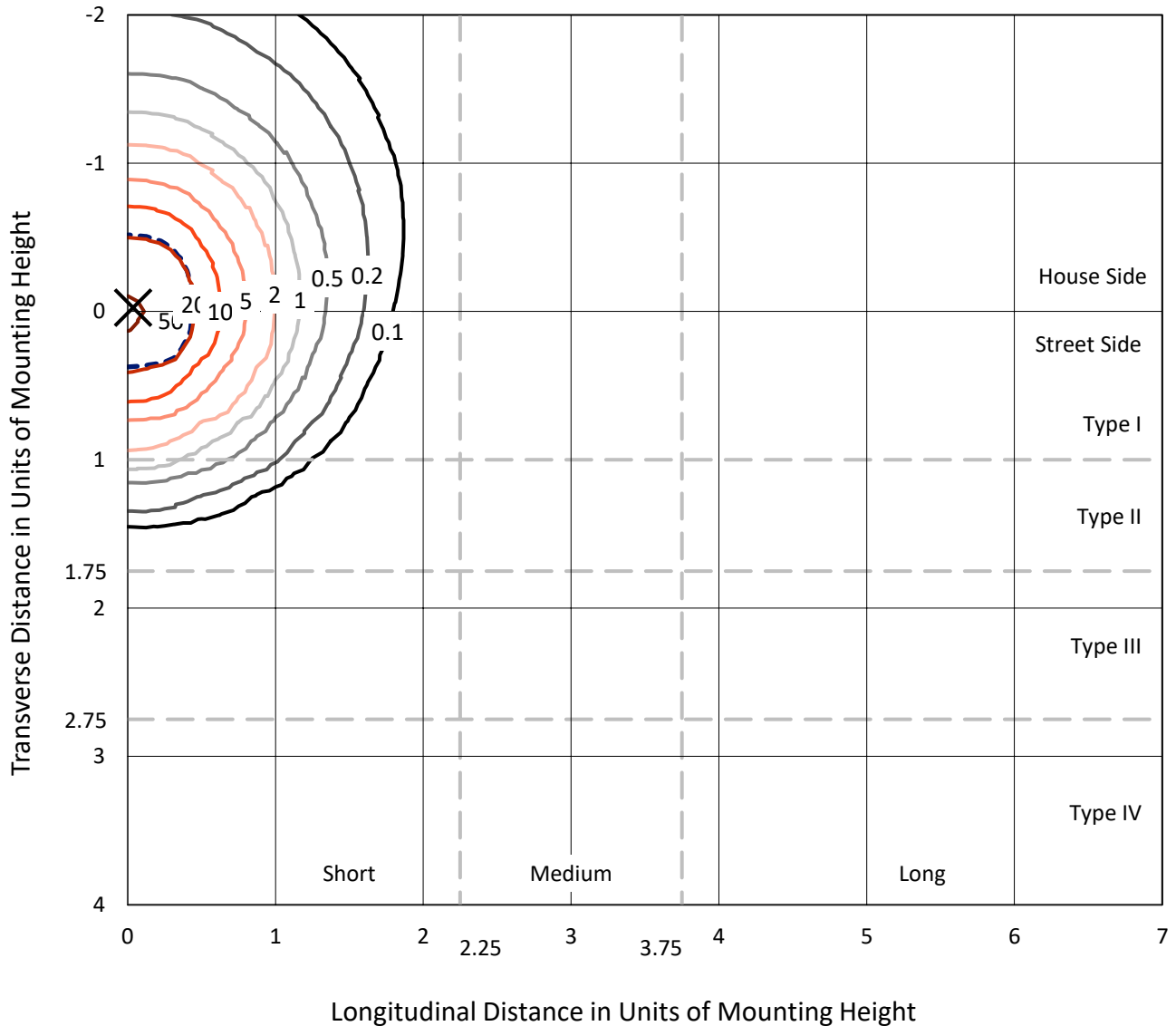
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

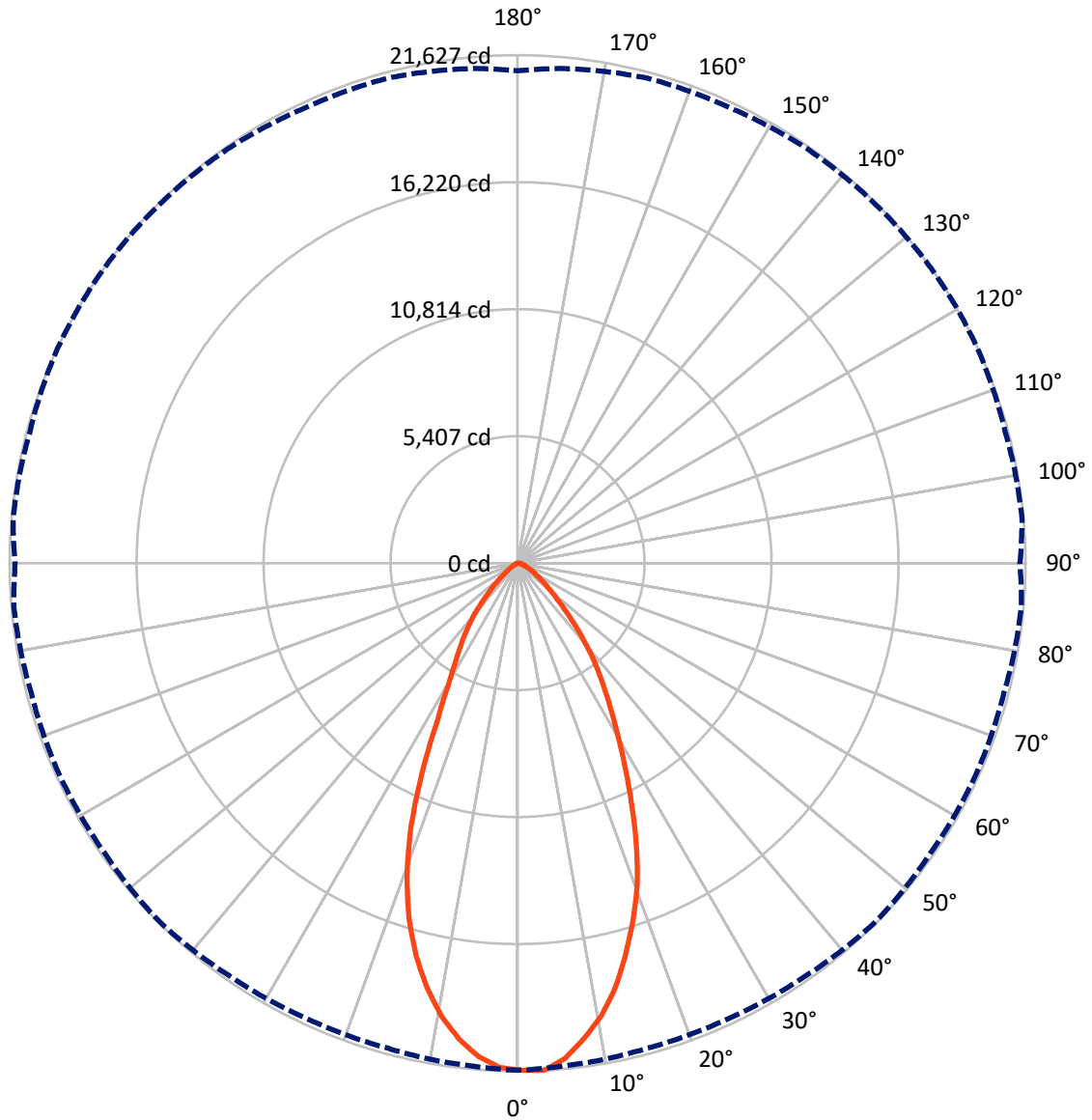
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54 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	10255.1	0.0	10255.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7817.5	0.0	7817.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	18072.6	0.0	18072.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1960.7	10.8
10°-20°	4673.8	25.9
20°-30°	4760.2	26.3
30°-40°	3549.6	19.6
40°-50°	1854.4	10.3
50°-60°	780.0	4.3
60°-70°	318.5	1.8
70°-80°	134.1	0.7
80°-90°	41.3	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°	18072.6	100.0
0°-180°	18072.6	100.0



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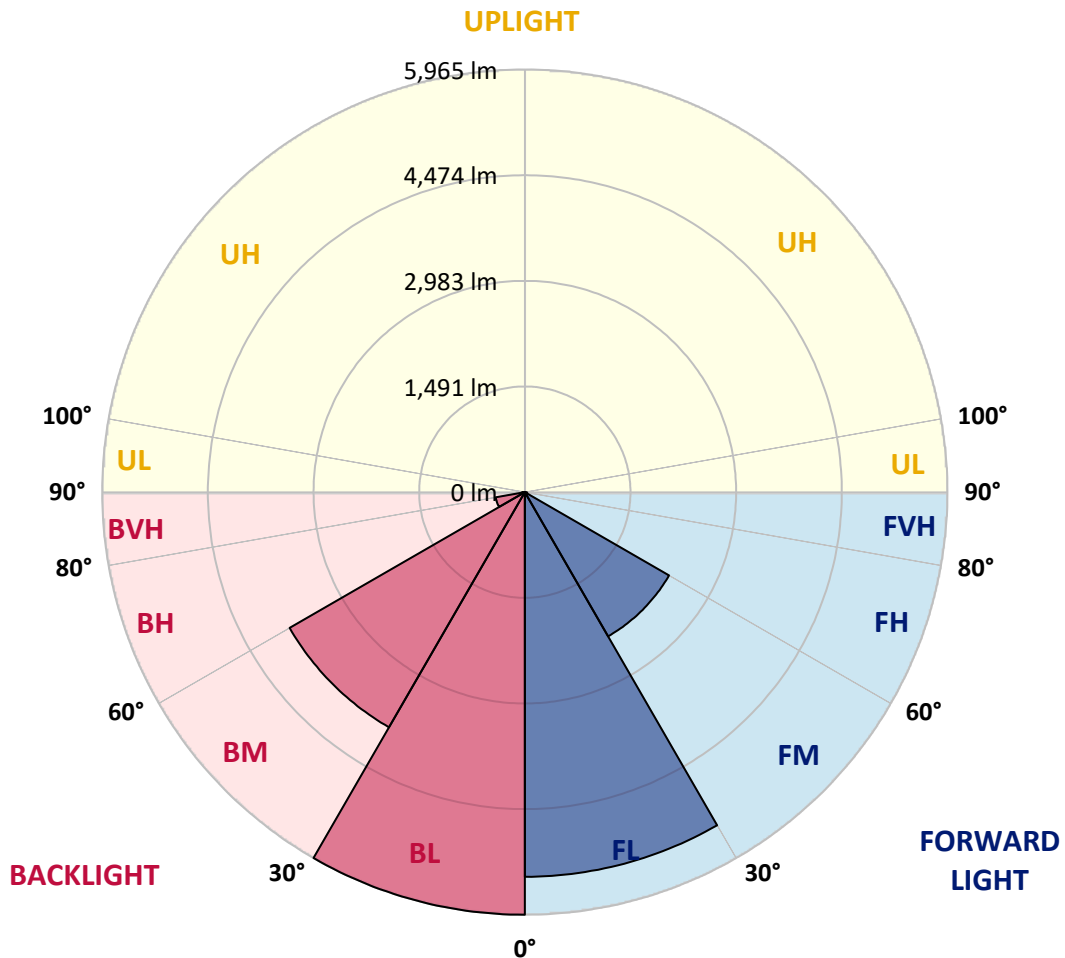
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5429.2	30.0			
FM	(30°-60°)	2350.4	13.0			
FH	(60°-80°)	34.0	0.2			G0/660
FVH	(80°-90°)	3.8	0.0			G0/10
BL	(0°-30°)	5965.4	33.0	B5		
BM	(30°-60°)	3833.6	21.2	B3/5000		
BH	(60°-80°)	418.6	2.3	B1/500		G1/500
BVH	(80°-90°)	37.5	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4
2.5°	21594.7	21506.5	21381.1	21369.5	21434.5	21576.1	21485.6	21490.2	21434.5	21529.7
5°	21255.7	21172.2	21086.3	20972.5	21067.7	21128.1	21081.6	21030.6	20958.6	21051.5
7.5°	20615.0	20568.6	20440.9	20389.8	20447.9	20515.2	20415.4	20401.4	20301.6	20422.3
10°	19635.3	19616.8	19491.4	19461.2	19512.3	19614.4	19570.3	19561.0	19498.4	19486.8
12.5°	18618.5	18546.5	18391.0	18381.7	18458.3	18611.5	18493.1	18379.4	18414.2	18444.4
15°	15999.8	15923.2	16308.6	16914.5	17232.6	17221.0	17255.8	17118.8	17077.0	17091.0
17.5°	12719.6	12589.5	12728.8	13666.7	15178.0	16055.6	15814.1	15519.3	15361.4	15257.0
20°	10978.4	10985.4	10959.8	11201.3	12143.8	14145.0	14086.9	13518.2	13311.5	13225.6
22.5°	9919.8	9880.3	9824.6	9901.2	10154.3	11329.0	12116.0	11593.6	11521.7	11426.5
25°	8882.1	8882.1	8814.8	8891.4	8963.4	8979.6	9768.9	9982.5	9843.2	9843.2
27.5°	7983.7	7937.2	7907.1	7941.9	7846.7	7389.4	7489.2	8582.6	8487.4	8429.4
30°	7092.2	7078.3	7027.2	7073.6	6720.8	6205.4	5996.5	7243.1	7342.9	7322.0
32.5°	5854.8	5910.6	6138.1	6210.0	5606.4	5190.9	4991.2	6012.7	6412.0	6395.8
35°	3979.1	4025.5	4285.5	5144.5	4647.7	4350.5	4292.5	4782.3	5439.3	5502.0
37.5°	3168.9	3161.9	3236.2	3389.4	3735.3	3663.3	3647.1	3774.8	4436.4	4464.3
40°	2611.7	2602.4	2600.1	2474.7	2388.8	3045.8	3001.7	2925.1	3498.5	3554.2
42.5°	2105.6	2114.9	2121.9	1847.9	1722.6	2349.4	2323.8	2244.9	2744.0	2809.0
45°	1652.9	1650.6	1664.5	1376.7	1341.8	1502.0	1736.5	1673.8	2070.8	2140.4
47.5°	856.6	886.8	1074.9	1065.6	1081.8	1065.6	1314.0	1297.7	1557.7	1669.2
50°	575.7	585.0	601.3	603.6	852.0	784.7	891.5	1009.9	1091.1	1262.9
52.5°	445.7	452.7	410.9	385.4	522.3	580.4	585.0	698.8	761.5	935.6
55°	248.4	278.6	299.5	301.8	287.9	429.5	427.2	517.7	566.4	682.5
57.5°	32.5	39.5	60.4	195.0	192.7	239.1	299.5	376.1	403.9	499.1
60°	2.3	4.6	7.0	30.2	127.7	139.3	204.3	234.5	280.9	350.5
62.5°	0.0	0.0	2.3	7.0	25.5	81.3	106.8	123.0	164.8	229.8
65°	0.0	0.0	2.3	4.6	9.3	30.2	41.8	67.3	97.5	141.6
67.5°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	30.2	51.1	85.9
70°	0.0	0.0	2.3	4.6	7.0	9.3	13.9	18.6	27.9	46.4
72.5°	0.0	0.0	2.3	2.3	4.6	11.6	11.6	13.9	18.6	25.5
75°	0.0	0.0	2.3	4.6	7.0	11.6	11.6	11.6	13.9	16.3
77.5°	0.0	0.0	2.3	4.6	7.0	11.6	9.3	11.6	11.6	11.6
80°	0.0	0.0	2.3	4.6	7.0	11.6	13.9	11.6	9.3	9.3
82.5°	0.0	0.0	2.3	7.0	7.0	16.3	16.3	16.3	7.0	7.0
85°	0.0	0.0	4.6	7.0	11.6	18.6	18.6	13.9	7.0	4.6
87.5°	0.0	0.0	2.3	4.6	4.6	9.3	13.9	11.6	4.6	2.3
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°
21592.4	0°	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4	21592.4
21390.4	2.5°	21562.2	21504.1	21613.3	21627.2	21580.8	21522.7	21388.1	21376.5	21142.0
20916.8	5°	21153.6	21058.4	21128.1	21174.5	21158.2	21095.6	21039.8	20988.8	20777.5
20148.4	7.5°	20392.1	20357.3	20389.8	20424.6	20492.0	20424.6	20401.4	20348.0	20139.1
19391.6	10°	19547.1	19482.1	19605.2	19588.9	19570.3	19551.8	19454.3	19463.5	19217.5
18360.8	12.5°	18509.4	18400.3	18518.7	18532.6	18518.7	18453.7	18344.6	18391.0	18165.8
16967.9	15°	17114.2	17102.6	17188.5	17244.2	17283.6	17214.0	17176.9	17200.1	17065.4
15175.7	17.5°	15400.9	15551.8	15832.7	15927.9	15930.2	16002.2	15981.3	15953.4	15853.6
13190.8	20°	13385.8	13676.0	14107.8	14551.2	14678.9	14618.5	14590.7	14641.8	14493.2
11326.6	22.5°	11526.3	11774.7	12276.1	12923.8	13297.6	13334.8	13327.8	13283.7	13225.6
9833.9	25°	9947.7	10168.2	10648.8	11240.8	11958.1	12064.9	12069.5	12055.6	12004.5
8480.5	27.5°	8615.1	8882.1	9146.7	9676.1	10439.8	10880.9	10825.2	10809.0	10790.4
7338.3	30°	7407.9	7744.6	7993.0	8322.6	9007.5	9604.1	9662.1	9634.3	9590.2
6393.4	32.5°	6451.5	6651.1	6966.9	7189.7	7681.9	8357.4	8580.3	8559.4	8519.9
5541.4	35°	5620.4	5699.3	5947.7	6196.1	6523.4	7178.1	7507.8	7461.3	7454.4
4515.3	37.5°	4629.1	4893.7	5030.7	5281.4	5511.3	6019.7	6474.7	6453.8	6456.1
3630.8	40°	3737.6	3890.9	4162.5	4373.7	4585.0	4956.4	5462.5	5476.4	5471.8
2811.3	42.5°	2869.4	3018.0	3303.5	3533.3	3721.4	3951.2	4434.1	4450.3	4471.2
2189.2	45°	2240.3	2335.4	2544.4	2783.5	2983.1	3122.4	3489.2	3593.7	3596.0
1697.0	47.5°	1738.8	1847.9	1996.5	2226.3	2421.3	2521.2	2788.1	2929.7	2922.8
1302.4	50°	1365.0	1464.9	1585.6	1766.7	1977.9	2056.9	2254.2	2393.5	2386.5
982.0	52.5°	1044.7	1172.4	1279.2	1418.4	1625.1	1692.4	1834.0	1994.2	1971.0
719.7	55°	791.6	921.6	1021.5	1137.5	1325.6	1411.5	1509.0	1636.7	1641.3
557.2	57.5°	596.6	731.3	821.8	940.2	1081.8	1177.0	1251.3	1388.3	1385.9
380.7	60°	427.2	543.2	652.3	775.4	884.5	993.6	1044.7	1174.7	1179.3
269.3	62.5°	308.8	417.9	522.3	629.1	726.6	833.4	879.9	982.0	995.9
176.4	65°	215.9	292.5	413.2	494.5	603.6	682.5	742.9	831.1	847.4
104.5	67.5°	139.3	211.3	327.3	399.3	499.1	566.4	629.1	698.8	719.7
67.3	70°	83.6	160.2	243.8	320.4	410.9	471.3	531.6	592.0	603.6
32.5	72.5°	53.4	111.4	176.4	260.0	329.7	394.7	448.1	492.2	457.3
20.9	75°	30.2	76.6	139.3	204.3	267.0	329.7	373.8	397.0	318.0
13.9	77.5°	18.6	55.7	113.8	164.8	206.6	264.7	292.5	306.4	227.5
9.3	80°	11.6	41.8	95.2	134.6	134.6	195.0	227.5	239.1	164.8
7.0	82.5°	9.3	30.2	74.3	102.1	90.5	146.3	178.8	181.1	116.1
4.6	85°	7.0	23.2	46.4	67.3	62.7	102.1	104.5	116.1	76.6
4.6	87.5°	4.6	13.9	27.9	39.5	34.8	48.8	55.7	62.7	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21592.4
20958.6
20608.0
20095.0
19133.9
18100.8
16902.9
15705.0
14386.4
13114.2
11832.7
10681.3
9534.4
8415.5
7377.8
6381.8
5390.5
4401.6
3535.7
2897.2
2386.5
1973.3
1641.3
1381.3
1167.7
991.3
842.7
717.3
594.3
424.8
301.8
213.6
153.2
106.8
69.6
37.1
0.0

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