

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: P637904

Luminaire Tested: **IFLD-S-SA3C-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17860.9 lumens
Efficiency: N/A
Efficacy: 111.1 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

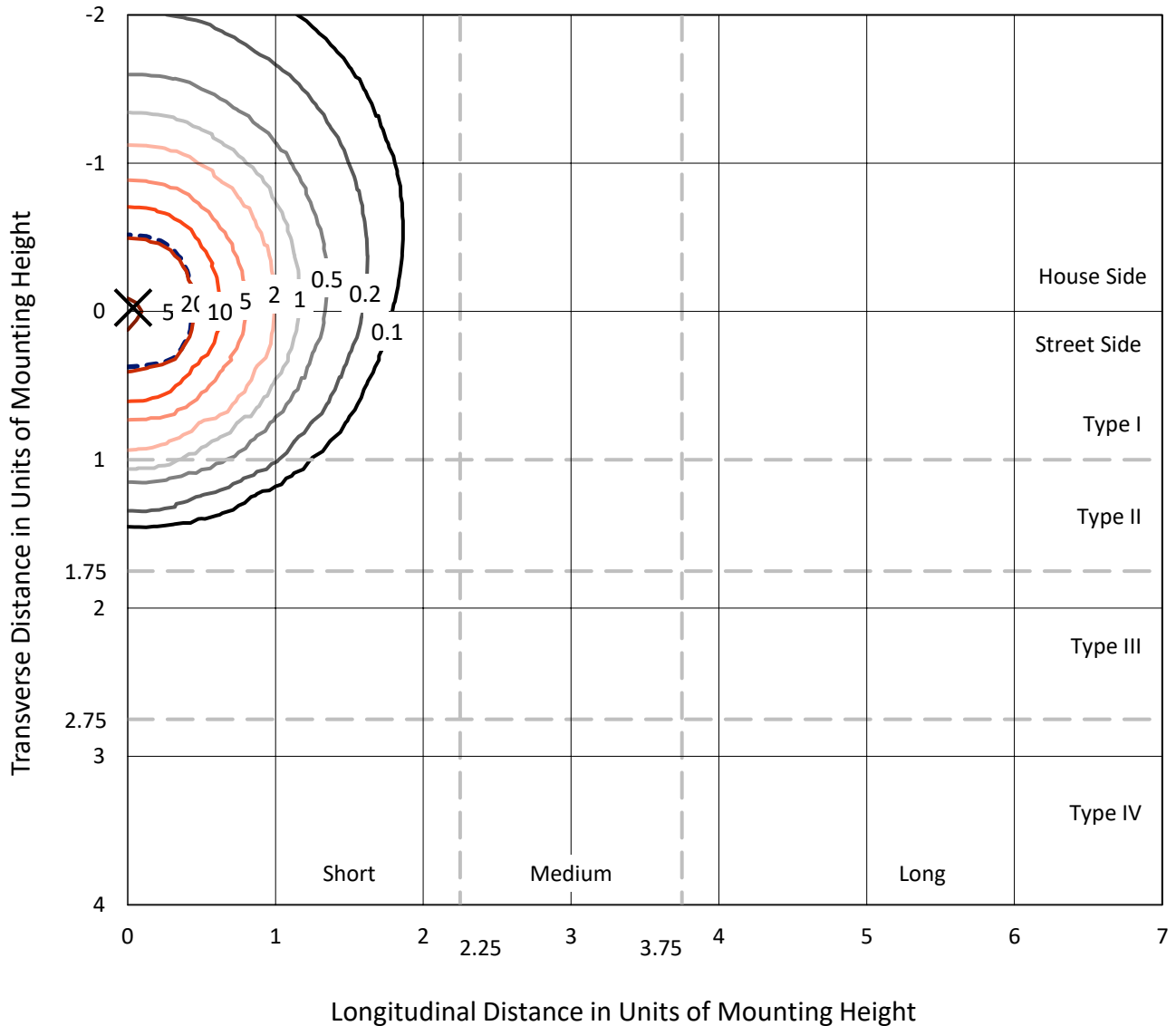
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637904
 CATALOG NUMBER: IFLD-S-SA3C-740-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

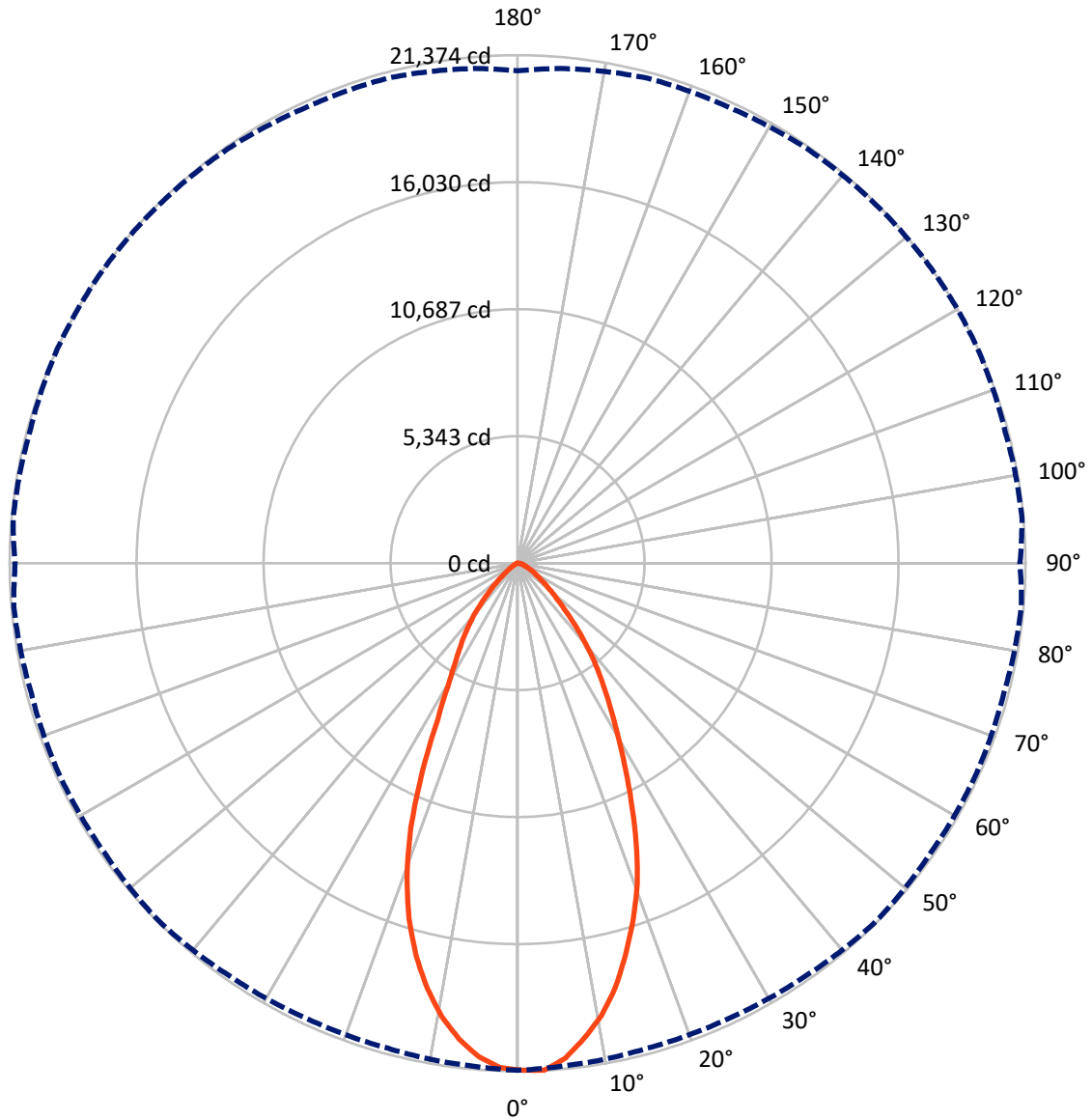
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53.3 fc
 Type I - Short - N/A

REPORT NUMBER: P637904
CATALOG NUMBER: IFLD-S-SA3C-740-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637904

CATALOG NUMBER: IFLD-S-SA3C-740-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10135.0	0.0	10135.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7725.9	0.0	7725.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	17860.9	0.0	17860.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1937.7	10.8
10°-20°	4619.0	25.9
20°-30°	4704.4	26.3
30°-40°	3508.1	19.6
40°-50°	1832.7	10.3
50°-60°	770.8	4.3
60°-70°	314.8	1.8
70°-80°	132.5	0.7
80°-90°	40.8	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°	17860.9	100.0
0°-180°	17860.9	100.0



REPORT NUMBER: P637904

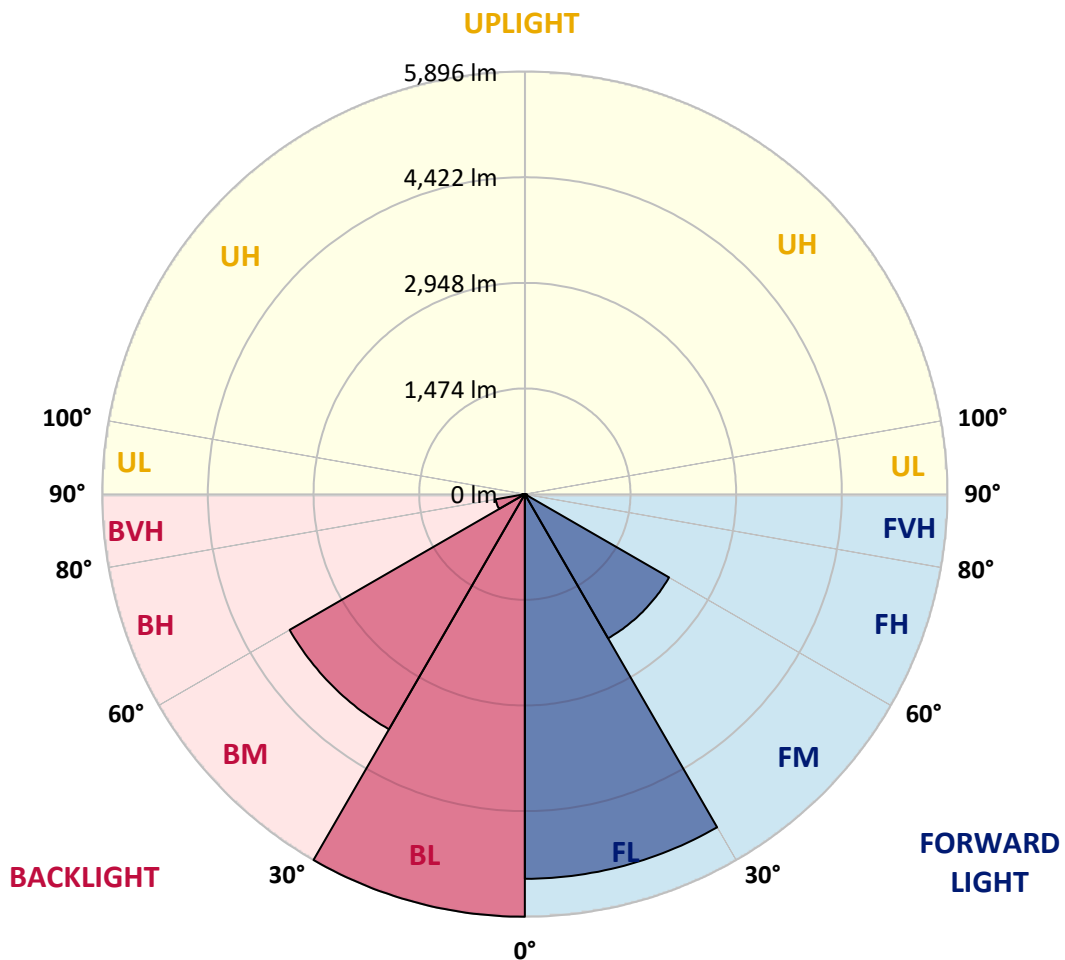
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5365.6	30.0			
FM (30°-60°)	2322.9	13.0			
FH (60°-80°)	33.6	0.2			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	5895.5	33.0	B5		
BM (30°-60°)	3788.7	21.2	B3/5000		
BH (60°-80°)	413.7	2.3	B1/500		G1/500
BVH (80°-90°)	37.0	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





REPORT NUMBER: P637904
 CATALOG NUMBER: IFLD-S-SA3C-740-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5
2.5°	21341.8	21254.6	21130.7	21119.2	21183.4	21323.4	21233.9	21238.5	21183.4	21277.5
5°	21006.8	20924.2	20839.3	20726.9	20820.9	20880.6	20834.7	20784.2	20713.1	20804.9
7.5°	20373.5	20327.7	20201.5	20151.0	20208.4	20274.9	20176.2	20162.5	20063.8	20183.1
10°	19405.3	19387.0	19263.1	19233.3	19283.7	19384.7	19341.1	19331.9	19270.0	19258.5
12.5°	18400.4	18329.3	18175.6	18166.4	18242.1	18393.6	18276.5	18164.1	18198.5	18228.4
15°	15812.4	15736.7	16117.6	16716.4	17030.7	17019.3	17053.7	16918.3	16877.0	16890.8
17.5°	12570.6	12442.1	12579.7	13506.7	15000.3	15867.5	15628.9	15337.5	15181.5	15078.3
20°	10849.8	10856.7	10831.5	11070.1	12001.6	13979.3	13921.9	13359.8	13155.6	13070.7
22.5°	9803.6	9764.6	9709.6	9785.3	10035.3	11196.3	11974.0	11457.8	11386.7	11292.6
25°	8778.1	8778.1	8711.5	8787.2	8858.4	8874.4	9654.5	9865.6	9727.9	9727.9
27.5°	7890.2	7844.3	7814.4	7848.9	7754.8	7302.8	7401.5	8482.1	8388.0	8330.7
30°	7009.1	6995.4	6944.9	6990.8	6642.1	6132.7	5926.2	7158.3	7256.9	7236.3
32.5°	5786.3	5841.3	6066.2	6137.3	5540.8	5130.1	4932.8	5942.3	6336.9	6320.8
35°	3932.5	3978.3	4235.3	5084.2	4593.2	4299.6	4242.2	4726.3	5375.6	5437.5
37.5°	3131.7	3124.9	3198.3	3349.7	3691.6	3620.4	3604.4	3730.6	4384.4	4412.0
40°	2581.1	2571.9	2569.6	2445.7	2360.9	3010.1	2966.6	2890.8	3457.5	3512.6
42.5°	2080.9	2090.1	2097.0	1826.3	1702.4	2321.9	2296.6	2218.6	2711.9	2776.1
45°	1633.6	1631.3	1645.0	1360.5	1326.1	1484.4	1716.2	1654.2	2046.5	2115.4
47.5°	846.6	876.4	1062.3	1053.1	1069.2	1053.1	1298.6	1282.5	1539.5	1649.6
50°	569.0	578.2	594.2	596.5	842.0	775.5	881.0	998.0	1078.3	1248.1
52.5°	440.5	447.4	406.1	380.9	516.2	573.6	578.2	690.6	752.5	924.6
55°	245.5	275.3	296.0	298.3	284.5	424.4	422.2	511.6	559.8	674.5
57.5°	32.1	39.0	59.7	192.7	190.4	236.3	296.0	371.7	399.2	493.3
60°	2.3	4.6	6.9	29.8	126.2	137.7	201.9	231.7	277.6	346.4
62.5°	0.0	0.0	2.3	6.9	25.2	80.3	105.5	121.6	162.9	227.1
65°	0.0	0.0	2.3	4.6	9.2	29.8	41.3	66.5	96.4	140.0
67.5°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	29.8	50.5	84.9
70°	0.0	0.0	2.3	4.6	6.9	9.2	13.8	18.4	27.5	45.9
72.5°	0.0	0.0	2.3	2.3	4.6	11.5	11.5	13.8	18.4	25.2
75°	0.0	0.0	2.3	4.6	6.9	11.5	11.5	11.5	13.8	16.1
77.5°	0.0	0.0	2.3	4.6	6.9	11.5	9.2	11.5	11.5	11.5
80°	0.0	0.0	2.3	4.6	6.9	11.5	13.8	11.5	9.2	9.2
82.5°	0.0	0.0	2.3	6.9	6.9	16.1	16.1	16.1	6.9	6.9
85°	0.0	0.0	4.6	6.9	11.5	18.4	18.4	13.8	6.9	4.6
87.5°	0.0	0.0	2.3	4.6	4.6	9.2	13.8	11.5	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



REPORT NUMBER: P637904
 CATALOG NUMBER: IFLD-S-SA3C-740-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
21339.5	0°	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5	21339.5
21139.9	2.5°	21309.6	21252.3	21360.1	21373.9	21328.0	21270.6	21137.6	21126.1	20894.4
20671.8	5°	20905.8	20811.8	20880.6	20926.5	20910.4	20848.5	20793.4	20742.9	20534.2
19912.4	7.5°	20153.3	20118.9	20151.0	20185.4	20251.9	20185.4	20162.5	20109.7	19903.2
19164.4	10°	19318.2	19253.9	19375.5	19359.5	19341.1	19322.8	19226.4	19235.6	18992.4
18145.8	12.5°	18292.6	18184.8	18301.8	18315.5	18301.8	18237.5	18129.7	18175.6	17953.0
16769.2	15°	16913.7	16902.2	16987.1	17042.2	17081.2	17012.4	16975.7	16998.6	16865.5
14998.0	17.5°	15220.5	15369.6	15647.3	15741.3	15743.6	15814.7	15794.1	15766.6	15667.9
13036.3	20°	13229.0	13515.8	13942.6	14380.8	14507.0	14447.3	14419.8	14470.3	14323.4
11194.0	22.5°	11391.3	11636.8	12132.4	12772.5	13141.9	13178.6	13171.7	13128.1	13070.7
9718.7	25°	9831.2	10049.1	10524.0	11109.1	11818.0	11923.6	11928.2	11914.4	11863.9
8381.1	27.5°	8514.2	8778.1	9039.6	9562.7	10317.6	10753.5	10698.4	10682.3	10664.0
7252.3	30°	7321.2	7653.8	7899.3	8225.1	8902.0	9491.6	9549.0	9521.4	9477.8
6318.6	32.5°	6375.9	6573.2	6885.3	7105.5	7591.9	8259.5	8479.8	8459.2	8420.1
5476.5	35°	5554.5	5632.6	5878.0	6123.5	6447.0	7094.0	7419.8	7373.9	7367.1
4462.4	37.5°	4574.9	4836.4	4971.8	5219.6	5446.7	5949.2	6398.9	6378.2	6380.5
3588.3	40°	3693.9	3845.3	4113.7	4322.5	4531.3	4898.4	5398.5	5412.3	5407.7
2778.4	42.5°	2835.8	2982.6	3264.8	3492.0	3677.8	3904.9	4382.1	4398.2	4418.9
2163.5	45°	2214.0	2308.1	2514.6	2750.9	2948.2	3085.9	3448.4	3551.6	3553.9
1677.1	47.5°	1718.4	1826.3	1973.1	2200.3	2393.0	2491.6	2755.5	2895.4	2888.5
1287.1	50°	1349.1	1447.7	1567.0	1746.0	1954.8	2032.8	2227.8	2365.4	2358.6
970.5	52.5°	1032.4	1158.6	1264.2	1401.8	1606.0	1672.6	1812.5	1970.8	1947.9
711.2	55°	782.4	910.8	1009.5	1124.2	1310.1	1394.9	1491.3	1617.5	1622.1
550.6	57.5°	589.6	722.7	812.2	929.2	1069.2	1163.2	1236.6	1372.0	1369.7
376.3	60°	422.2	536.9	644.7	766.3	874.1	982.0	1032.4	1160.9	1165.5
266.1	62.5°	305.1	413.0	516.2	621.8	718.1	823.7	869.5	970.5	984.3
174.4	65°	213.4	289.1	408.4	488.7	596.5	674.5	734.2	821.4	837.4
103.2	67.5°	137.7	208.8	323.5	394.6	493.3	559.8	621.8	690.6	711.2
66.5	70°	82.6	158.3	240.9	316.6	406.1	465.7	525.4	585.1	596.5
32.1	72.5°	52.8	110.1	174.4	257.0	325.8	390.0	442.8	486.4	452.0
20.6	75°	29.8	75.7	137.7	201.9	263.8	325.8	369.4	392.3	314.3
13.8	77.5°	18.4	55.1	112.4	162.9	204.2	261.6	289.1	302.9	224.8
9.2	80°	11.5	41.3	94.1	133.1	133.1	192.7	224.8	236.3	162.9
6.9	82.5°	9.2	29.8	73.4	101.0	89.5	144.5	176.7	179.0	114.7
4.6	85°	6.9	22.9	45.9	66.5	61.9	101.0	103.2	114.7	75.7
4.6	87.5°	4.6	13.8	27.5	39.0	34.4	48.2	55.1	61.9	41.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21339.5
20713.1
20366.7
19859.6
18909.8
17888.8
16704.9
15521.1
14217.9
12960.6
11694.1
10556.2
9422.8
8316.9
7291.3
6307.1
5327.4
4350.0
3494.2
2863.3
2358.6
1950.2
1622.1
1365.1
1154.0
979.7
832.8
708.9
587.3
419.9
298.3
211.1
151.4
105.5
68.8
36.7
0.0

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