

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: P637833

Luminaire Tested: **IFLD-L-SA7D-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34397.9 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

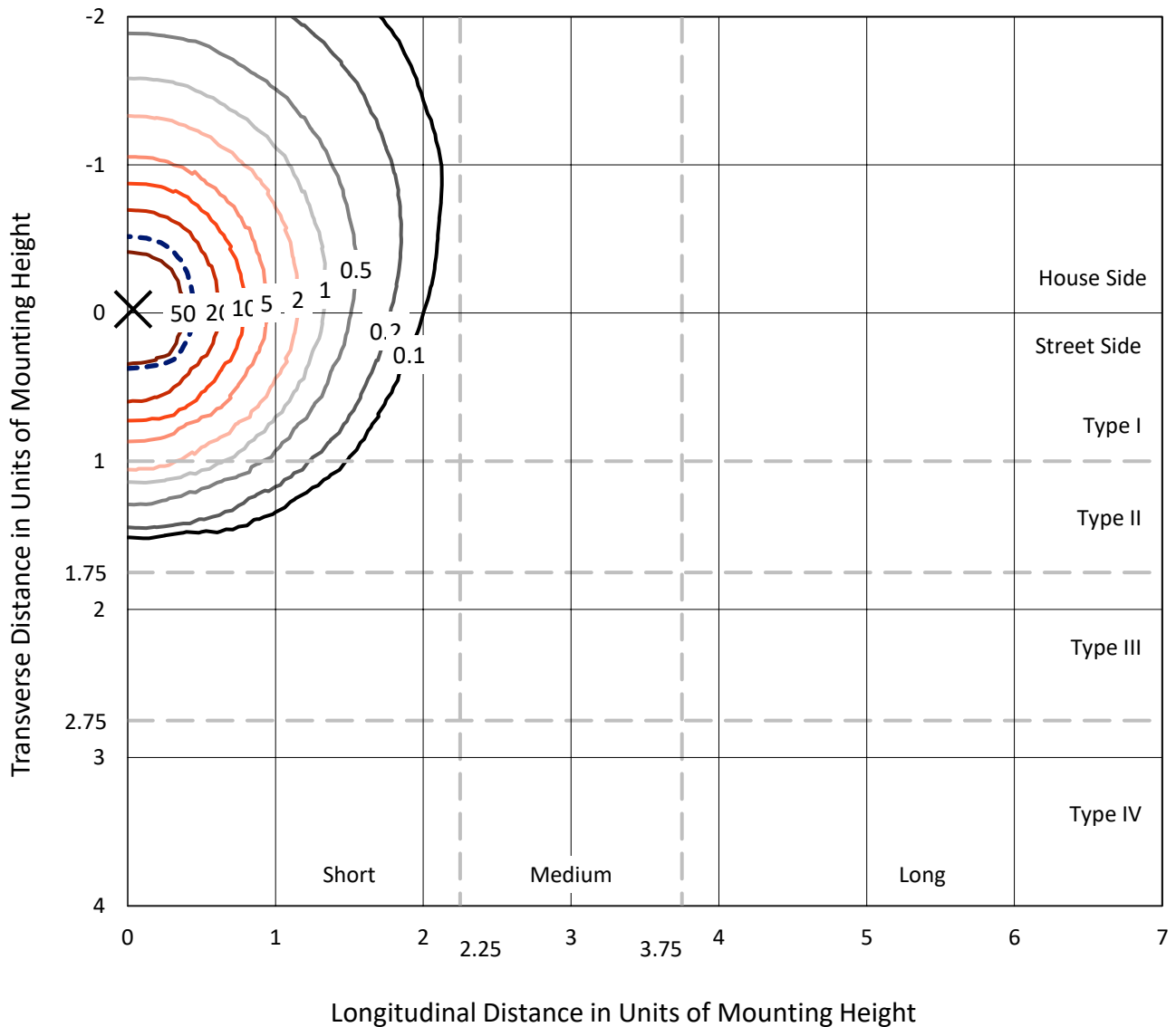
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637833
 CATALOG NUMBER: IFLD-L-SA7D-727-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

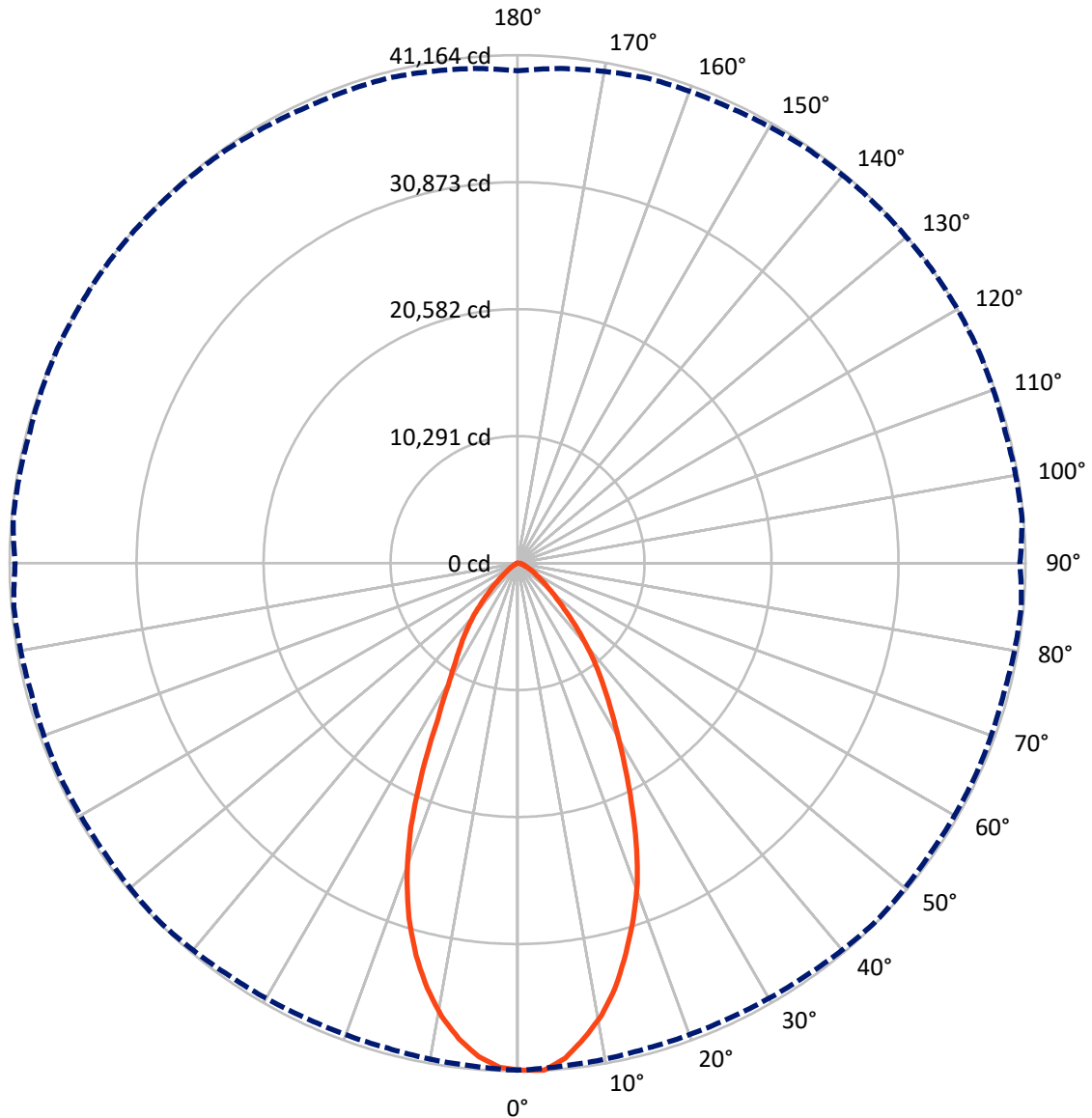
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 102.7 fc
 Type I - Short - N/A

REPORT NUMBER: P637833
CATALOG NUMBER: IFLD-L-SA7D-727-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637833

CATALOG NUMBER: IFLD-L-SA7D-727-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19518.8	0.0	19518.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14879.2	0.0	14879.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	34397.9	0.0	34397.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3731.8	10.8
10°-20°	8895.7	25.9
20°-30°	9060.1	26.3
30°-40°	6756.1	19.6
40°-50°	3529.6	10.3
50°-60°	1484.6	4.3
60°-70°	606.3	1.8
70°-80°	255.1	0.7
80°-90°	78.6	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°	34397.9	100.0
0°-180°	34397.9	100.0



REPORT NUMBER: P637833

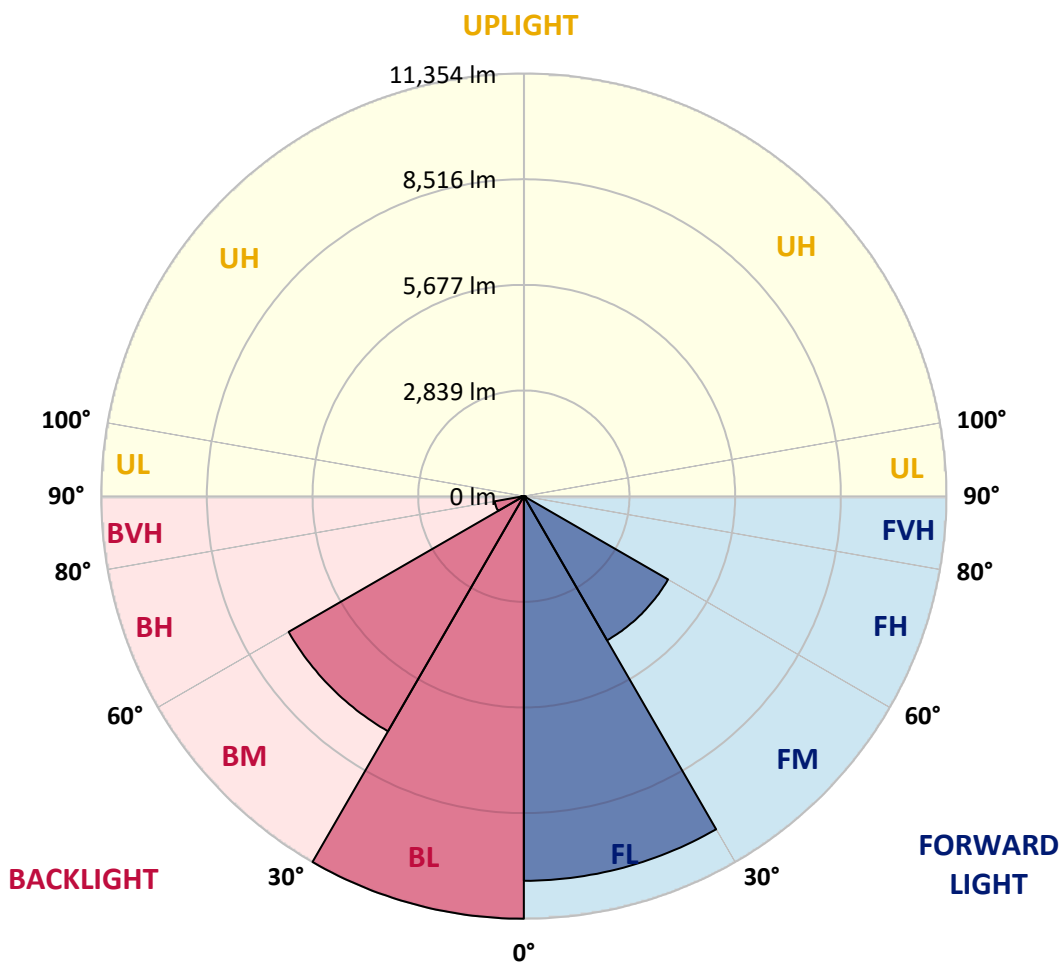
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10333.6	30.0			
FM (30°-60°)	4473.6	13.0			
FH (60°-80°)	64.7	0.2			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	11354.1	33.0	B5		
BM (30°-60°)	7296.7	21.2	B4/8500		
BH (60°-80°)	796.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	71.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





REPORT NUMBER: P637833
 CATALOG NUMBER: IFLD-L-SA7D-727-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2
2.5°	41101.6	40933.7	40695.1	40673.0	40796.8	41066.3	40894.0	40902.8	40796.8	40977.9
5°	40456.5	40297.5	40134.0	39917.5	40098.6	40213.5	40125.1	40027.9	39890.9	40067.7
7.5°	39237.0	39148.6	38905.6	38808.4	38918.9	39047.0	38857.0	38830.5	38640.5	38870.3
10°	37372.4	37337.0	37098.4	37041.0	37138.2	37332.6	37248.6	37231.0	37111.7	37089.6
12.5°	35437.0	35300.0	35004.0	34986.3	35132.1	35423.8	35198.4	34981.9	35048.2	35105.6
15°	30452.9	30307.0	31040.5	32193.8	32799.1	32777.0	32843.3	32582.6	32503.1	32529.6
17.5°	24209.4	23962.0	24227.1	26012.2	28888.7	30558.9	30099.4	29538.2	29237.7	29038.9
20°	20895.5	20908.7	20860.1	21319.7	23113.6	26922.4	26811.9	25729.4	25336.1	25172.7
22.5°	18880.6	18805.5	18699.4	18845.2	19326.9	21562.7	23060.6	22066.4	21929.4	21748.3
25°	16905.5	16905.5	16777.4	16923.2	17060.1	17091.1	18593.4	18999.9	18734.8	18734.8
27.5°	15195.5	15107.1	15049.7	15116.0	14934.8	14064.3	14254.3	16335.5	16154.3	16043.9
30°	13498.8	13472.3	13375.0	13463.4	12791.8	11810.9	11413.2	13786.0	13976.0	13936.2
32.5°	11143.7	11249.7	11682.7	11819.7	10670.9	9879.9	9499.9	11444.1	12204.1	12173.2
35°	7573.4	7661.8	8156.7	9791.6	8846.0	8280.4	8170.0	9102.3	10352.7	10472.0
37.5°	6031.4	6018.1	6159.5	6451.1	7109.5	6972.5	6941.6	7184.6	8443.9	8496.9
40°	4970.9	4953.2	4948.8	4710.2	4546.7	5797.2	5713.2	5567.4	6658.8	6764.8
42.5°	4007.7	4025.3	4038.6	3517.2	3278.6	4471.6	4423.0	4272.8	5222.8	5346.5
45°	3146.0	3141.6	3168.1	2620.2	2553.9	2858.8	3305.1	3185.8	3941.4	4073.9
47.5°	1630.5	1687.9	2045.8	2028.1	2059.1	2028.1	2500.9	2470.0	2964.9	3177.0
50°	1095.8	1113.5	1144.4	1148.8	1621.6	1493.5	1696.7	1922.1	2076.7	2403.7
52.5°	848.4	861.6	782.1	733.5	994.2	1104.6	1113.5	1330.0	1449.3	1780.7
55°	472.8	530.2	570.0	574.4	547.9	817.4	813.0	985.3	1078.1	1299.1
57.5°	61.9	75.1	114.9	371.2	366.7	455.1	570.0	715.8	768.8	950.0
60°	4.4	8.8	13.3	57.4	243.0	265.1	388.8	446.3	534.6	667.2
62.5°	0.0	0.0	4.4	13.3	48.6	154.7	203.3	234.2	313.7	437.4
65°	0.0	0.0	4.4	8.8	17.7	57.4	79.5	128.1	185.6	269.5
67.5°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	57.4	97.2	163.5
70°	0.0	0.0	4.4	8.8	13.3	17.7	26.5	35.3	53.0	88.4
72.5°	0.0	0.0	4.4	4.4	8.8	22.1	22.1	26.5	35.3	48.6
75°	0.0	0.0	4.4	8.8	13.3	22.1	22.1	22.1	26.5	30.9
77.5°	0.0	0.0	4.4	8.8	13.3	22.1	17.7	22.1	22.1	22.1
80°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	22.1	17.7	17.7
82.5°	0.0	0.0	4.4	13.3	13.3	30.9	30.9	30.9	13.3	13.3
85°	0.0	0.0	8.8	13.3	22.1	35.3	35.3	26.5	13.3	8.8
87.5°	0.0	0.0	4.4	8.8	8.8	17.7	26.5	22.1	8.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637833

CATALOG NUMBER: IFLD-L-SA7D-727-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41097.2	0°	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2	41097.2
40712.8	2.5°	41039.8	40929.3	41137.0	41163.5	41075.1	40964.7	40708.4	40686.3	40240.0
39811.4	5°	40262.1	40080.9	40213.5	40301.9	40270.9	40151.6	40045.6	39948.4	39546.3
38348.9	7.5°	38812.8	38746.5	38808.4	38874.7	39002.8	38874.7	38830.5	38728.9	38331.2
36908.4	10°	37204.5	37080.7	37314.9	37284.0	37248.6	37213.3	37027.7	37045.4	36577.0
34946.6	12.5°	35229.3	35021.7	35247.0	35273.5	35247.0	35123.3	34915.6	35004.0	34575.4
32295.4	15°	32573.8	32551.7	32715.2	32821.2	32896.3	32763.8	32693.1	32737.3	32481.0
28884.3	17.5°	29312.9	29600.1	30134.7	30315.9	30320.3	30457.3	30417.5	30364.5	30174.5
25106.4	20°	25477.5	26029.9	26851.7	27695.7	27938.7	27823.8	27770.8	27868.0	27585.2
21558.3	22.5°	21938.3	22411.0	23365.5	24598.2	25309.6	25380.3	25367.1	25283.1	25172.7
18717.1	25°	18933.6	19353.4	20268.0	21394.8	22760.1	22963.4	22972.2	22945.7	22848.5
16141.1	27.5°	16397.4	16905.5	17409.2	18416.6	19870.4	20709.9	20603.8	20572.9	20537.6
13967.1	30°	14099.7	14740.4	15213.2	15840.6	17144.1	18279.7	18390.1	18337.1	18253.2
12168.8	32.5°	12279.2	12659.2	13260.2	13684.3	14621.1	15906.9	16331.1	16291.3	16216.2
10547.2	35°	10697.4	10847.6	11320.4	11793.2	12416.2	13662.3	14289.7	14201.3	14188.1
8594.1	37.5°	8810.7	9314.4	9575.1	10052.3	10489.7	11457.4	12323.4	12283.7	12288.1
6910.7	40°	7113.9	7405.5	7922.5	8324.6	8726.7	9433.7	10396.9	10423.4	10414.6
5350.9	42.5°	5461.4	5744.2	6287.6	6725.1	7083.0	7520.4	8439.5	8470.4	8510.2
4166.7	45°	4263.9	4445.1	4842.8	5297.9	5677.9	5943.0	6641.1	6840.0	6844.4
3230.0	47.5°	3309.5	3517.2	3800.0	4237.4	4608.6	4798.6	5306.7	5576.2	5563.0
2478.8	50°	2598.1	2788.1	3017.9	3362.5	3764.6	3914.9	4290.4	4555.6	4542.3
1869.1	52.5°	1988.4	2231.4	2434.6	2699.8	3093.0	3221.1	3490.7	3795.6	3751.4
1369.8	55°	1506.7	1754.2	1944.2	2165.1	2523.0	2686.5	2872.1	3115.1	3123.9
1060.5	57.5°	1135.6	1391.9	1564.2	1789.5	2059.1	2240.2	2381.6	2642.3	2637.9
724.6	60°	813.0	1033.9	1241.6	1475.8	1683.5	1891.2	1988.4	2235.8	2244.6
512.6	62.5°	587.7	795.3	994.2	1197.4	1383.0	1586.3	1674.6	1869.1	1895.6
335.8	65°	410.9	556.7	786.5	941.2	1148.8	1299.1	1413.9	1581.9	1612.8
198.8	67.5°	265.1	402.1	623.0	760.0	950.0	1078.1	1197.4	1330.0	1369.8
128.1	70°	159.1	304.9	464.0	609.8	782.1	897.0	1011.9	1126.7	1148.8
61.9	72.5°	101.6	212.1	335.8	494.9	627.4	751.2	852.8	936.7	870.5
39.8	75°	57.4	145.8	265.1	388.8	508.1	627.4	711.4	755.6	605.3
26.5	77.5°	35.3	106.0	216.5	313.7	393.3	503.7	556.7	583.3	433.0
17.7	80°	22.1	79.5	181.2	256.3	256.3	371.2	433.0	455.1	313.7
13.3	82.5°	17.7	57.4	141.4	194.4	172.3	278.4	340.2	344.6	220.9
8.8	85°	13.3	44.2	88.4	128.1	119.3	194.4	198.8	220.9	145.8
8.8	87.5°	8.8	26.5	53.0	75.1	66.3	92.8	106.0	119.3	79.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41097.2
39890.9
39223.7
38247.2
36417.9
34451.7
32171.7
29891.7
27381.9
24960.6
22521.5
20329.9
18147.1
16017.4
14042.3
12146.7
10259.9
8377.6
6729.5
5514.4
4542.3
3755.8
3123.9
2629.1
2222.5
1886.7
1603.9
1365.3
1131.2
808.6
574.4
406.5
291.6
203.3
132.6
70.7
0.0

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