

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: P636722

Luminaire Tested: **IFLD-S-SA6E-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636722
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25767.1 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

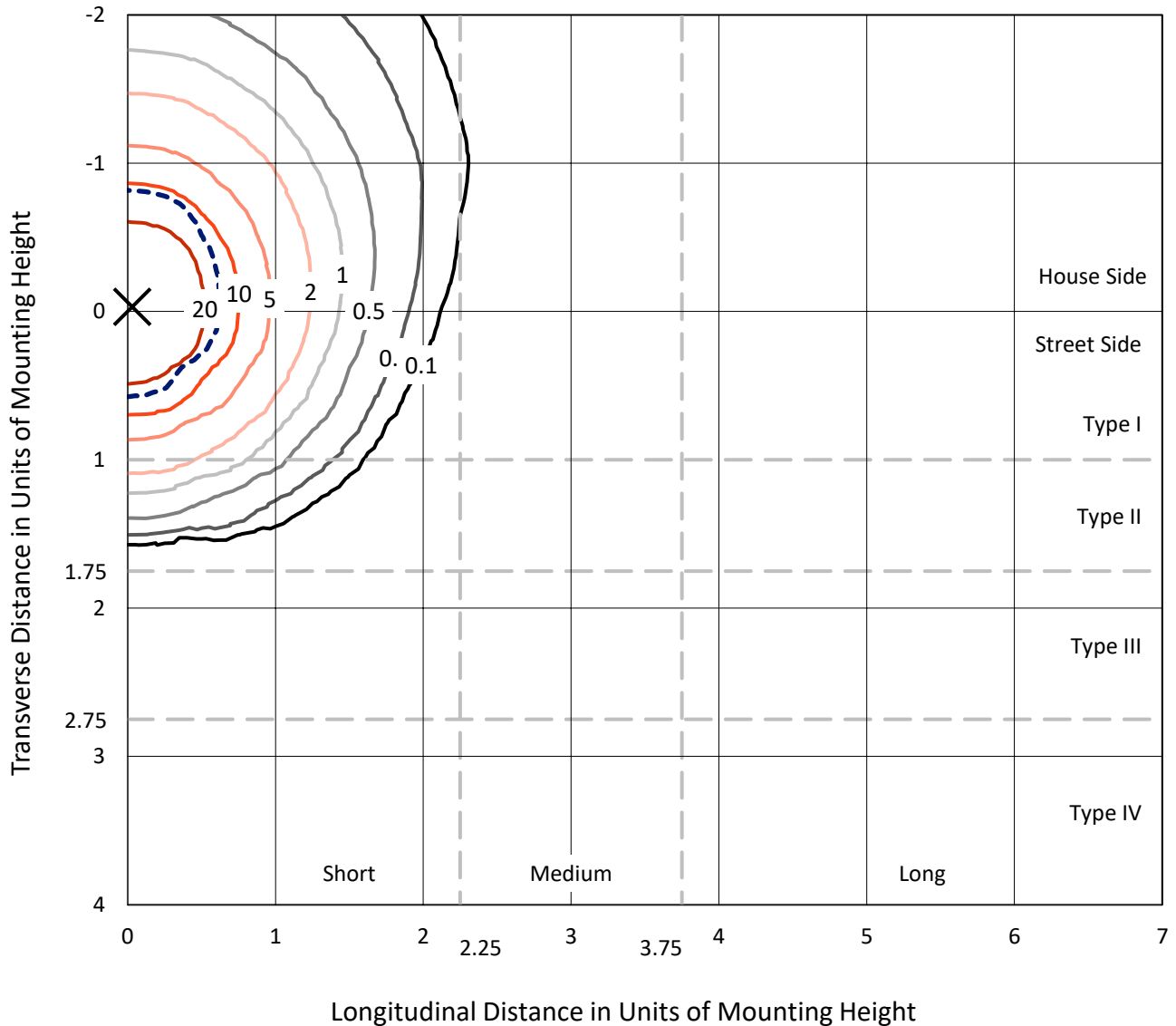
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

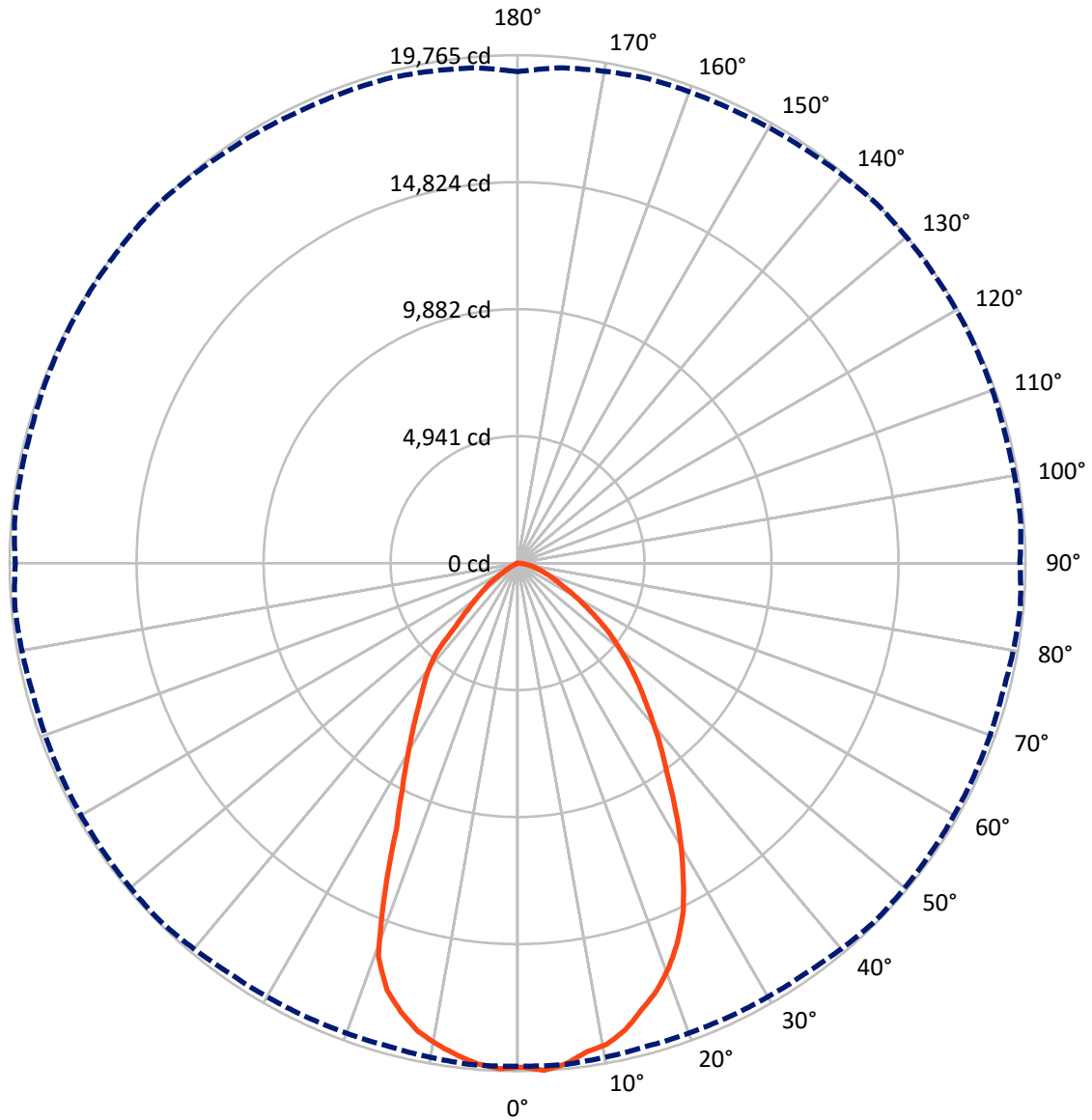
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15260.6	0.0	15260.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10506.5	0.0	10506.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	25767.1	0.0	25767.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1839.0	7.1
10°-20°	4931.3	19.1
20°-30°	6014.0	23.3
30°-40°	5490.8	21.3
40°-50°	3968.0	15.4
50°-60°	2166.6	8.4
60°-70°	895.8	3.5
70°-80°	362.8	1.4
80°-90°	98.7	0.4
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°	25767.1	100.0
0°-180°	25767.1	100.0



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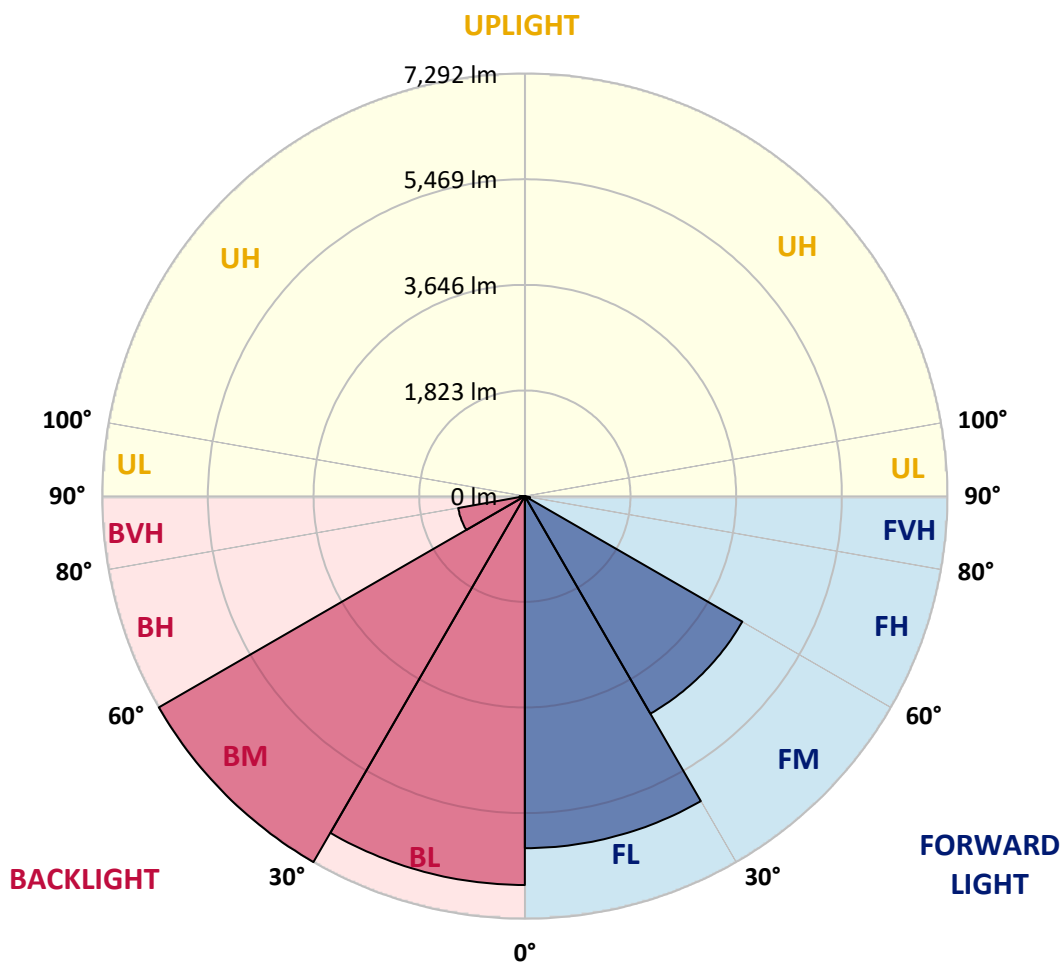
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6074.2	23.6			
FM (30°-60°)	4333.5	16.8			
FH (60°-80°)	90.8	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	6710.1	26.0	B5		
BM (30°-60°)	7291.9	28.3	B4/8500		
BH (60°-80°)	1167.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	90.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7
2.5°	19572.4	19597.8	19459.9	19474.4	19499.8	19684.9	19637.7	19594.1	19532.5	19637.7
5°	19547.0	19561.5	19416.3	19365.5	19387.3	19554.2	19401.8	19401.8	19387.3	19369.2
7.5°	19351.0	19358.3	19245.8	19155.1	19213.1	19289.3	19176.9	19231.3	19151.5	19213.1
10°	19057.1	19009.9	18875.7	18850.3	18915.6	18988.2	18912.0	18962.8	18890.2	18937.4
12.5°	18625.3	18552.7	18443.9	18411.2	18523.7	18621.7	18560.0	18531.0	18436.6	18552.7
15°	16959.8	16905.4	17152.1	17583.9	17972.2	18055.6	17990.3	18019.4	17823.4	17856.1
17.5°	13959.0	13857.4	14122.3	15145.5	16604.2	17373.5	17315.4	17126.7	16836.4	16901.8
20°	12685.4	12656.4	12627.3	12870.4	13890.1	16223.2	16303.0	15824.1	15410.4	15319.7
22.5°	11966.9	11956.1	11927.0	11981.5	12250.0	13748.6	14662.9	14220.3	13944.5	13919.1
25°	11310.2	11292.0	11204.9	11273.9	11273.9	11361.0	12533.0	12801.5	12558.4	12529.4
27.5°	10642.5	10609.9	10595.3	10628.0	10461.1	9873.3	10170.8	11480.7	11353.7	11361.0
30°	9920.4	9909.6	9869.6	9938.6	9423.3	8694.0	8505.3	10283.3	10308.7	10301.4
32.5°	8846.4	8893.6	9075.0	9151.2	8302.1	7699.8	7384.1	8897.2	9416.1	9405.2
35°	6426.2	6426.2	7017.6	8117.1	7275.2	6821.7	6651.1	7543.7	8534.3	8570.6
37.5°	5283.2	5301.3	5417.4	5918.2	6277.4	6117.7	6066.9	6350.0	7402.2	7460.3
40°	4753.4	4753.4	4753.4	4546.6	4535.7	5511.8	5482.7	5392.0	6393.5	6520.5
42.5°	4270.8	4281.7	4288.9	3766.4	3476.1	4764.3	4699.0	4561.1	5490.0	5638.8
45°	3773.7	3791.8	3813.6	3149.6	3022.6	3429.0	3976.9	3824.5	4597.4	4789.7
47.5°	2304.1	2333.2	2826.6	2670.6	2685.1	2645.2	3243.9	3218.5	3770.1	4042.2
50°	1556.6	1567.5	1614.7	1694.5	2304.1	2079.2	2296.9	2663.4	2862.9	3276.6
52.5°	1306.3	1324.4	1208.3	1099.4	1513.1	1625.6	1603.8	1977.6	2057.4	2569.0
55°	918.0	976.1	921.7	910.8	860.0	1262.7	1215.6	1520.4	1571.2	1952.2
57.5°	94.3	108.9	188.7	678.5	562.4	714.8	867.2	1114.0	1164.8	1440.5
60°	7.3	7.3	18.1	94.3	410.0	428.2	598.7	685.8	783.8	1005.1
62.5°	0.0	3.6	7.3	14.5	65.3	228.6	301.2	359.2	471.7	649.5
65°	0.0	0.0	3.6	10.9	14.5	87.1	116.1	188.7	257.6	402.8
67.5°	0.0	0.0	3.6	7.3	10.9	21.8	39.9	68.9	137.9	228.6
70°	0.0	0.0	3.6	7.3	10.9	18.1	29.0	43.5	61.7	123.4
72.5°	0.0	0.0	3.6	3.6	7.3	18.1	21.8	29.0	43.5	61.7
75°	0.0	0.0	3.6	3.6	10.9	21.8	18.1	21.8	29.0	39.9
77.5°	0.0	0.0	3.6	7.3	10.9	21.8	18.1	21.8	21.8	25.4
80°	0.0	0.0	3.6	7.3	14.5	25.4	21.8	21.8	18.1	18.1
82.5°	0.0	0.0	3.6	10.9	14.5	32.7	32.7	29.0	14.5	10.9
85°	0.0	0.0	7.3	14.5	21.8	36.3	36.3	29.0	10.9	7.3
87.5°	0.0	0.0	7.3	10.9	18.1	25.4	36.3	29.0	10.9	3.6
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°
19608.7	0°	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7	19608.7
19547.0	2.5°	19644.9	19623.2	19695.7	19724.8	19764.7	19612.3	19517.9	19521.6	19347.4
19325.6	5°	19441.7	19445.4	19539.7	19532.5	19572.4	19488.9	19452.6	19390.9	19238.5
19046.2	7.5°	19184.1	19151.5	19242.2	19311.1	19209.5	19267.6	19184.1	19213.1	19122.4
18799.5	10°	18984.5	18908.3	18991.8	19039.0	19042.6	18984.5	18904.7	18828.5	18795.9
18414.9	12.5°	18541.9	18443.9	18585.4	18650.7	18639.8	18527.3	18436.6	18454.8	18349.5
17740.0	15°	17932.3	17935.9	18037.5	18099.2	18041.1	18015.7	18023.0	17979.4	17888.7
16807.4	17.5°	16999.7	17054.2	17322.7	17471.4	17504.1	17453.3	17427.9	17377.1	17286.4
15319.7	20°	15446.7	15773.3	16252.3	16713.1	16803.8	16789.3	16698.6	16676.8	16626.0
13846.5	22.5°	14082.4	14325.5	14880.7	15599.1	15969.2	16005.5	15896.7	15864.0	15809.6
12529.4	25°	12670.9	12932.1	13432.9	14213.0	14978.6	15134.7	15116.5	15018.5	14960.5
11361.0	27.5°	11480.7	11742.0	12195.5	12899.5	13719.5	14220.3	14267.4	14111.4	14107.8
10319.6	30°	10406.7	10765.9	11110.6	11683.9	12478.6	13229.7	13309.5	13200.6	13211.5
9365.3	32.5°	9564.8	9862.4	10156.3	10540.9	11201.3	12075.8	12387.9	12286.3	12246.3
8570.6	35°	8704.9	8908.1	9209.2	9561.2	10011.2	10878.4	11419.0	11342.8	11302.9
7496.6	37.5°	7725.2	8073.5	8291.2	8686.7	9038.7	9728.1	10490.1	10479.2	10395.8
6582.2	40°	6720.1	7086.5	7416.7	7815.9	8088.0	8635.9	9481.4	9477.8	9488.6
5635.1	42.5°	5809.3	6146.8	6545.9	6981.3	7242.6	7641.7	8548.9	8599.7	8661.3
4855.0	45°	4985.6	5290.4	5660.5	6190.3	6506.0	6734.6	7540.1	7772.3	7768.7
4158.3	47.5°	4245.4	4532.1	4844.1	5359.4	5762.1	5969.0	6636.6	6966.8	6945.0
3410.8	50°	3563.2	3817.2	4143.8	4517.5	5058.2	5239.6	5736.7	6172.2	6139.5
2717.8	52.5°	2866.6	3218.5	3494.3	3835.4	4405.1	4582.9	4967.5	5392.0	5366.6
2039.2	55°	2235.2	2576.3	2910.1	3204.0	3683.0	3947.9	4223.6	4659.1	4651.8
1596.6	57.5°	1690.9	2064.6	2380.3	2659.7	3040.7	3367.3	3588.6	3984.1	4034.9
1092.2	60°	1251.8	1538.5	1879.6	2191.6	2492.8	2830.3	2979.0	3367.3	3389.1
747.5	62.5°	852.7	1168.4	1502.2	1785.2	2010.2	2358.6	2492.8	2812.1	2852.0
479.0	65°	591.5	794.7	1175.6	1378.8	1654.6	1952.2	2086.4	2340.4	2420.2
275.8	67.5°	391.9	566.1	918.0	1103.1	1375.2	1578.4	1749.0	1955.8	2042.9
174.2	70°	214.1	417.3	656.8	870.9	1106.7	1302.6	1469.6	1636.5	1712.7
79.8	72.5°	145.1	279.4	457.2	689.4	892.6	1084.9	1233.7	1357.1	1360.7
47.2	75°	72.6	188.7	348.3	533.4	696.7	885.4	1019.6	1092.2	1005.1
29.0	77.5°	43.5	137.9	283.0	428.2	566.1	714.8	791.0	830.9	689.4
21.8	80°	25.4	98.0	221.3	341.1	391.9	526.1	598.7	609.6	460.8
14.5	82.5°	18.1	72.6	174.2	250.4	239.5	370.1	449.9	435.4	293.9
10.9	85°	10.9	50.8	108.9	156.0	145.1	243.1	261.3	268.5	170.5
7.3	87.5°	7.3	29.0	58.1	83.5	68.9	105.2	105.2	127.0	83.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19608.7
19122.4
19202.3
18970.0
18650.7
18258.8
17798.0
17246.5
16509.9
15795.1
14898.8
14100.5
13157.1
12250.0
11248.5
10464.7
9488.6
8628.7
7776.0
6952.3
6168.5
5421.0
4669.9
4013.2
3421.7
2859.3
2402.1
2032.0
1683.6
1328.0
939.8
664.0
431.8
272.1
156.0
72.6
0.0

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