

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: P638212

Luminaire Tested: **IFLD-L-SA8A-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26952.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

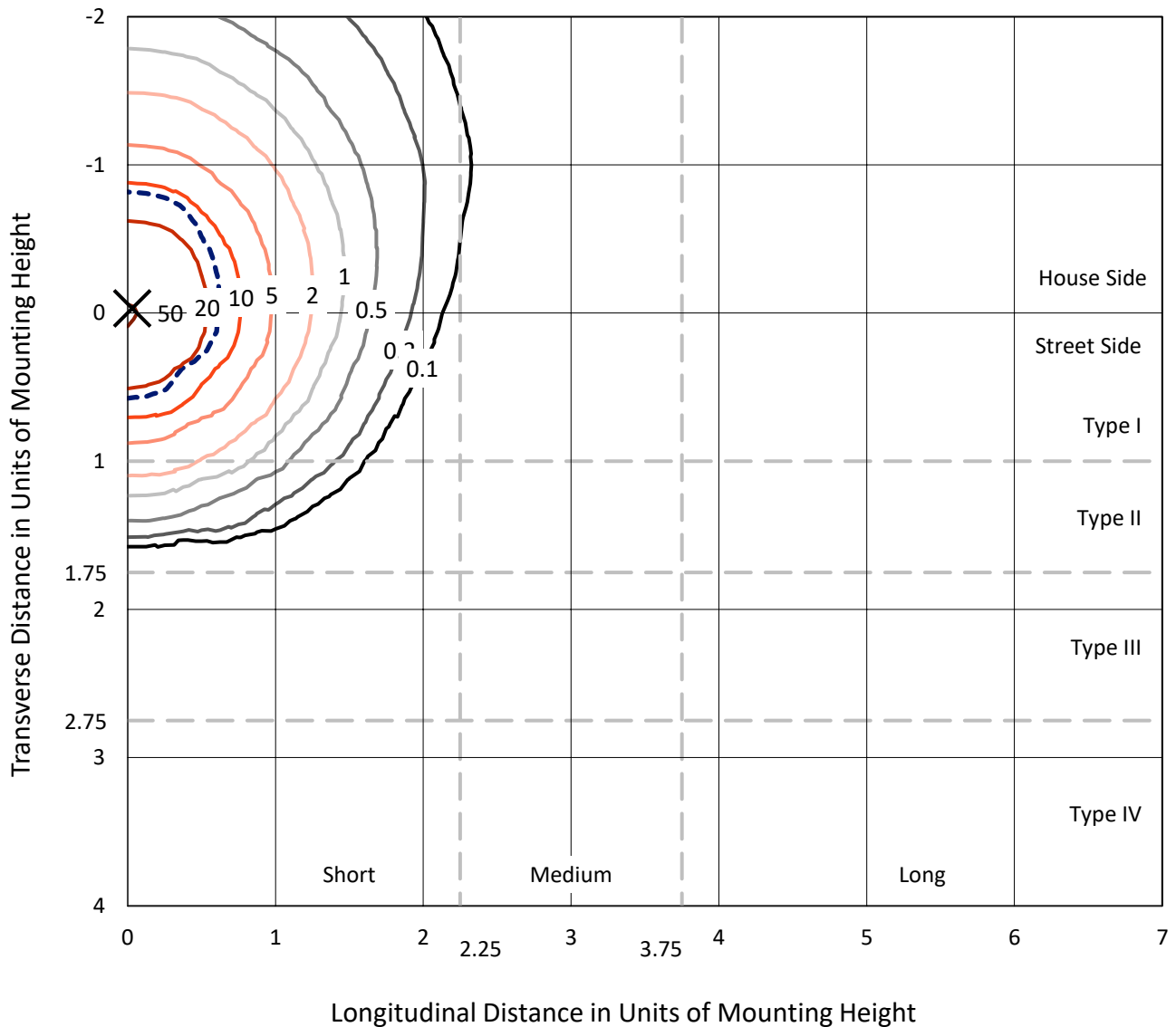
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

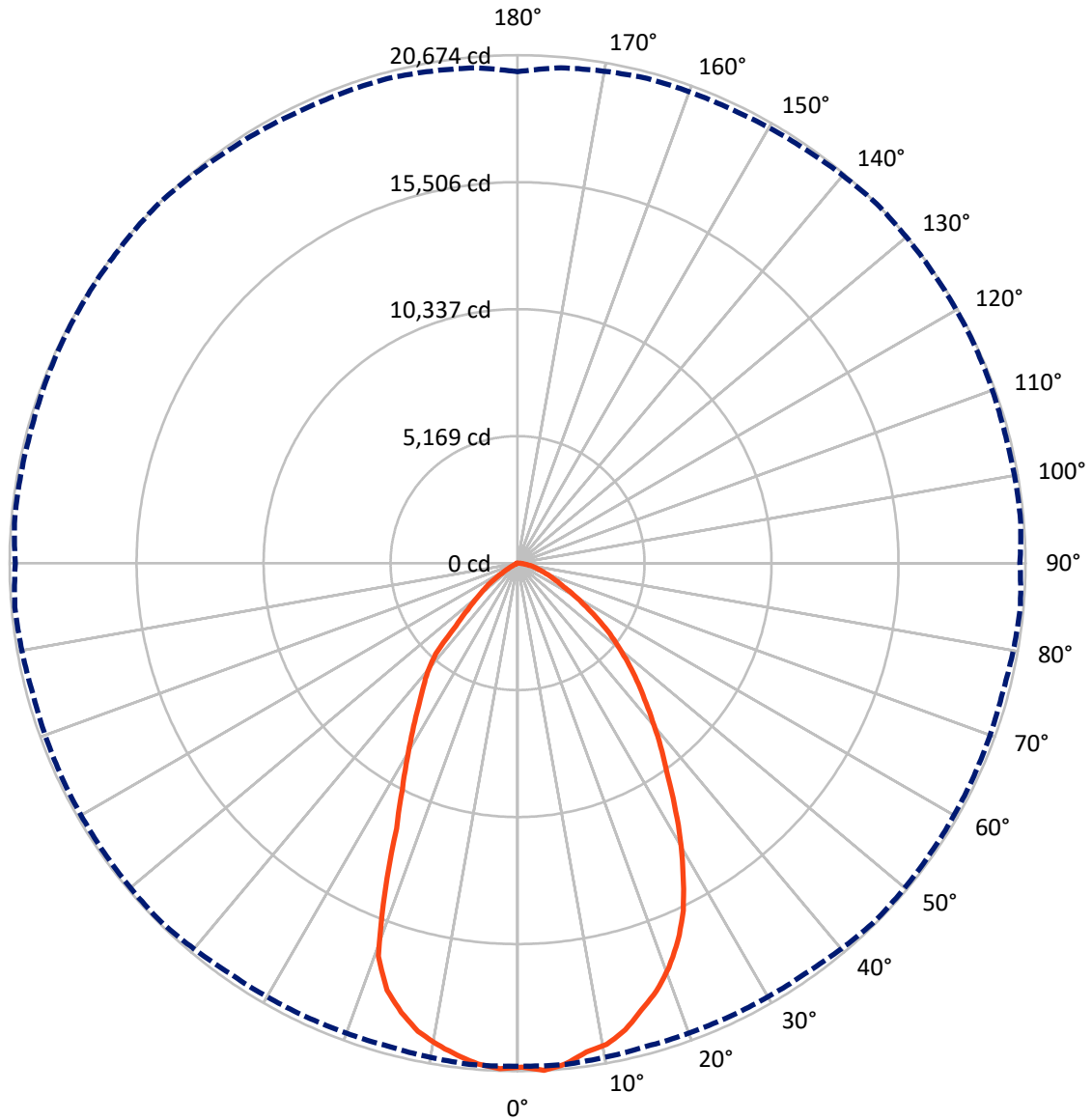
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.3 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	15962.8	0.0	15962.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10990.0	0.0	10990.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	26952.8	0.0	26952.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1923.6	7.1
10°-20°	5158.3	19.1
20°-30°	6290.8	23.3
30°-40°	5743.4	21.3
40°-50°	4150.6	15.4
50°-60°	2266.3	8.4
60°-70°	937.0	3.5
70°-80°	379.5	1.4
80°-90°	103.2	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°	26952.8	100.0
0°-180°	26952.8	100.0



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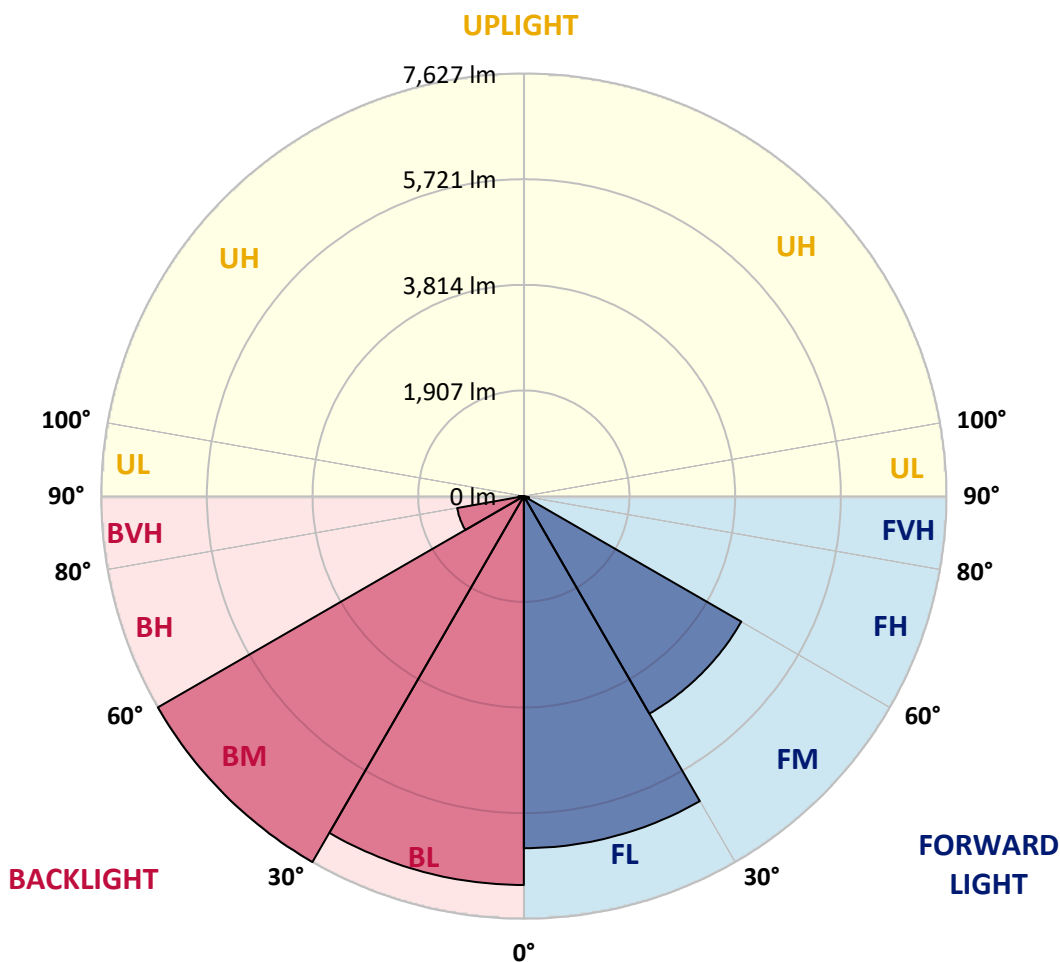
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6353.8	23.6			
FM (30°-60°)	4533.0	16.8			
FH (60°-80°)	95.0	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7018.9	26.0	B5		
BM (30°-60°)	7627.4	28.3	B4/8500		
BH (60°-80°)	1221.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.0	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°	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0
2.5°	20473.0	20499.6	20355.4	20370.5	20397.1	20590.7	20541.3	20495.8	20431.3	20541.3
5°	20446.4	20461.6	20309.8	20256.7	20279.4	20454.0	20294.6	20294.6	20279.4	20260.5
7.5°	20241.5	20249.1	20131.4	20036.5	20097.3	20177.0	20059.3	20116.2	20032.7	20097.3
10°	19934.0	19884.7	19744.3	19717.7	19786.0	19861.9	19782.2	19835.4	19759.5	19808.8
12.5°	19482.4	19406.5	19292.6	19258.4	19376.1	19478.6	19414.1	19383.7	19285.0	19406.5
15°	17740.2	17683.3	17941.4	18393.1	18799.2	18886.5	18818.2	18848.5	18643.6	18677.7
17.5°	14601.3	14495.1	14772.1	15842.5	17368.3	18172.9	18112.2	17914.8	17611.2	17679.5
20°	13269.1	13238.8	13208.4	13462.7	14529.2	16969.8	17053.3	16552.2	16119.6	16024.7
22.5°	12517.6	12506.2	12475.9	12532.8	12813.7	14381.2	15337.7	14874.6	14586.2	14559.6
25°	11830.6	11811.6	11720.6	11792.7	11792.7	11883.8	13109.7	13390.6	13136.3	13105.9
27.5°	11132.2	11098.1	11082.9	11117.1	10942.5	10327.6	10638.8	12009.0	11876.2	11883.8
30°	10376.9	10365.6	10323.8	10395.9	9857.0	9094.1	8896.7	10756.5	10783.1	10775.5
32.5°	9253.5	9302.8	9492.6	9572.3	8684.1	8054.1	7723.9	9306.6	9849.4	9838.0
35°	6721.9	6721.9	7340.5	8490.6	7610.0	7135.6	6957.2	7890.9	8927.1	8965.0
37.5°	5526.3	5545.2	5666.7	6190.5	6566.2	6399.2	6346.1	6642.2	7742.9	7803.6
40°	4972.1	4972.1	4972.1	4755.8	4744.4	5765.4	5735.0	5640.1	6687.7	6820.5
42.5°	4467.3	4478.7	4486.3	3939.7	3636.1	4983.5	4915.2	4771.0	5742.6	5898.2
45°	3947.3	3966.3	3989.1	3294.5	3161.7	3586.8	4159.9	4000.5	4808.9	5010.1
47.5°	2410.2	2440.5	2956.7	2793.5	2808.7	2766.9	3393.2	3366.6	3943.5	4228.2
50°	1628.3	1639.7	1689.0	1772.5	2410.2	2174.8	2402.6	2785.9	2994.7	3427.4
52.5°	1366.4	1385.4	1263.9	1150.0	1582.7	1700.4	1677.6	2068.6	2152.1	2687.2
55°	960.3	1021.0	964.1	952.7	899.5	1320.8	1271.5	1590.3	1643.5	2042.0
57.5°	98.7	113.9	197.4	709.8	588.3	747.7	907.1	1165.2	1218.4	1506.8
60°	7.6	7.6	19.0	98.7	428.9	447.9	626.3	717.4	819.8	1051.4
62.5°	0.0	3.8	7.6	15.2	68.3	239.1	315.0	375.8	493.4	679.4
65°	0.0	0.0	3.8	11.4	15.2	91.1	121.5	197.4	269.5	421.3
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	41.8	72.1	144.2	239.1
70°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	45.5	64.5	129.0
72.5°	0.0	0.0	3.8	3.8	7.6	19.0	22.8	30.4	45.5	64.5
75°	0.0	0.0	3.8	3.8	11.4	22.8	19.0	22.8	30.4	41.8
77.5°	0.0	0.0	3.8	7.6	11.4	22.8	19.0	22.8	22.8	26.6
80°	0.0	0.0	3.8	7.6	15.2	26.6	22.8	22.8	19.0	19.0
82.5°	0.0	0.0	3.8	11.4	15.2	34.2	34.2	30.4	15.2	11.4
85°	0.0	0.0	7.6	15.2	22.8	38.0	38.0	30.4	11.4	7.6
87.5°	0.0	0.0	7.6	11.4	19.0	26.6	38.0	30.4	11.4	3.8
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°
20511.0	0°	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0	20511.0
20446.4	2.5°	20548.9	20526.1	20602.1	20632.4	20674.2	20514.8	20416.1	20419.9	20237.7
20214.9	5°	20336.4	20340.2	20438.9	20431.3	20473.0	20385.7	20347.8	20283.2	20123.8
19922.7	7.5°	20066.9	20032.7	20127.6	20199.7	20093.5	20154.2	20066.9	20097.3	20002.4
19664.6	10°	19858.1	19778.4	19865.7	19915.1	19918.9	19858.1	19774.6	19694.9	19660.8
19262.2	12.5°	19395.1	19292.6	19440.6	19509.0	19497.6	19379.9	19285.0	19304.0	19193.9
18556.3	15°	18757.4	18761.2	18867.5	18932.0	18871.3	18844.7	18852.3	18806.8	18711.9
17580.8	17.5°	17782.0	17838.9	18119.8	18275.4	18309.6	18256.4	18229.9	18176.7	18081.8
16024.7	20°	16157.5	16499.1	17000.1	17482.1	17577.0	17561.9	17467.0	17444.2	17391.1
14483.7	22.5°	14730.4	14984.7	15565.4	16316.9	16704.1	16742.0	16628.2	16594.0	16537.1
13105.9	25°	13253.9	13527.2	14051.0	14867.0	15667.9	15831.1	15812.1	15709.6	15648.9
11883.8	27.5°	12009.0	12282.3	12756.7	13493.1	14350.8	14874.6	14924.0	14760.8	14757.0
10794.4	30°	10885.5	11261.3	11621.9	12221.6	13052.8	13838.5	13922.0	13808.1	13819.5
9796.2	32.5°	10005.0	10316.2	10623.6	11026.0	11716.8	12631.5	12957.9	12851.6	12809.9
8965.0	35°	9105.4	9318.0	9633.0	10001.2	10471.8	11379.0	11944.5	11864.8	11823.0
7841.5	37.5°	8080.7	8445.0	8672.8	9086.5	9454.6	10175.8	10972.8	10961.4	10874.2
6885.1	40°	7029.3	7412.6	7758.0	8175.5	8460.2	9033.3	9917.7	9913.9	9925.3
5894.4	42.5°	6076.6	6429.6	6847.1	7302.6	7575.8	7993.4	8942.2	8995.4	9059.9
5078.4	45°	5215.0	5533.9	5921.0	6475.1	6805.4	7044.5	7887.1	8130.0	8126.2
4349.7	47.5°	4440.8	4740.6	5067.0	5606.0	6027.3	6243.6	6942.0	7287.4	7264.6
3567.8	50°	3727.2	3992.9	4334.5	4725.4	5290.9	5480.7	6000.7	6456.2	6422.0
2842.8	52.5°	2998.5	3366.6	3655.1	4011.9	4607.8	4793.7	5196.1	5640.1	5613.6
2133.1	55°	2338.0	2694.8	3044.0	3351.4	3852.4	4129.5	4418.0	4873.4	4865.9
1670.0	57.5°	1768.7	2159.6	2489.9	2782.1	3180.6	3522.2	3753.8	4167.5	4220.6
1142.5	60°	1309.5	1609.3	1966.1	2292.5	2607.5	2960.5	3116.1	3522.2	3545.0
781.9	62.5°	891.9	1222.2	1571.3	1867.4	2102.7	2467.1	2607.5	2941.5	2983.3
501.0	65°	618.7	831.2	1229.7	1442.3	1730.8	2042.0	2182.4	2448.1	2531.6
288.5	67.5°	409.9	592.1	960.3	1153.8	1438.5	1651.0	1829.4	2045.8	2136.9
182.2	70°	223.9	436.5	687.0	910.9	1157.6	1362.6	1537.2	1711.8	1791.5
83.5	72.5°	151.8	292.3	478.2	721.1	933.7	1134.9	1290.5	1419.5	1423.3
49.3	75°	75.9	197.4	364.4	557.9	728.7	926.1	1066.5	1142.5	1051.4
30.4	77.5°	45.5	144.2	296.1	447.9	592.1	747.7	827.4	869.2	721.1
22.8	80°	26.6	102.5	231.5	356.8	409.9	550.3	626.3	637.6	482.0
15.2	82.5°	19.0	75.9	182.2	261.9	250.5	387.1	470.6	455.5	307.4
11.4	85°	11.4	53.1	113.9	163.2	151.8	254.3	273.3	280.9	178.4
7.6	87.5°	7.6	30.4	60.7	87.3	72.1	110.1	110.1	132.8	87.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20511.0
20002.4
20085.9
19843.0
19509.0
19099.0
18617.0
18040.1
17269.6
16521.9
15584.4
14749.4
13762.5
12813.7
11766.1
10946.3
9925.3
9025.7
8133.8
7272.2
6452.4
5670.5
4884.8
4197.8
3579.2
2990.9
2512.6
2125.5
1761.1
1389.2
983.0
694.6
451.7
284.7
163.2
75.9
0.0

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