

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: P638154

Luminaire Tested: **IFLD-L-SA8A-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638154
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25988.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

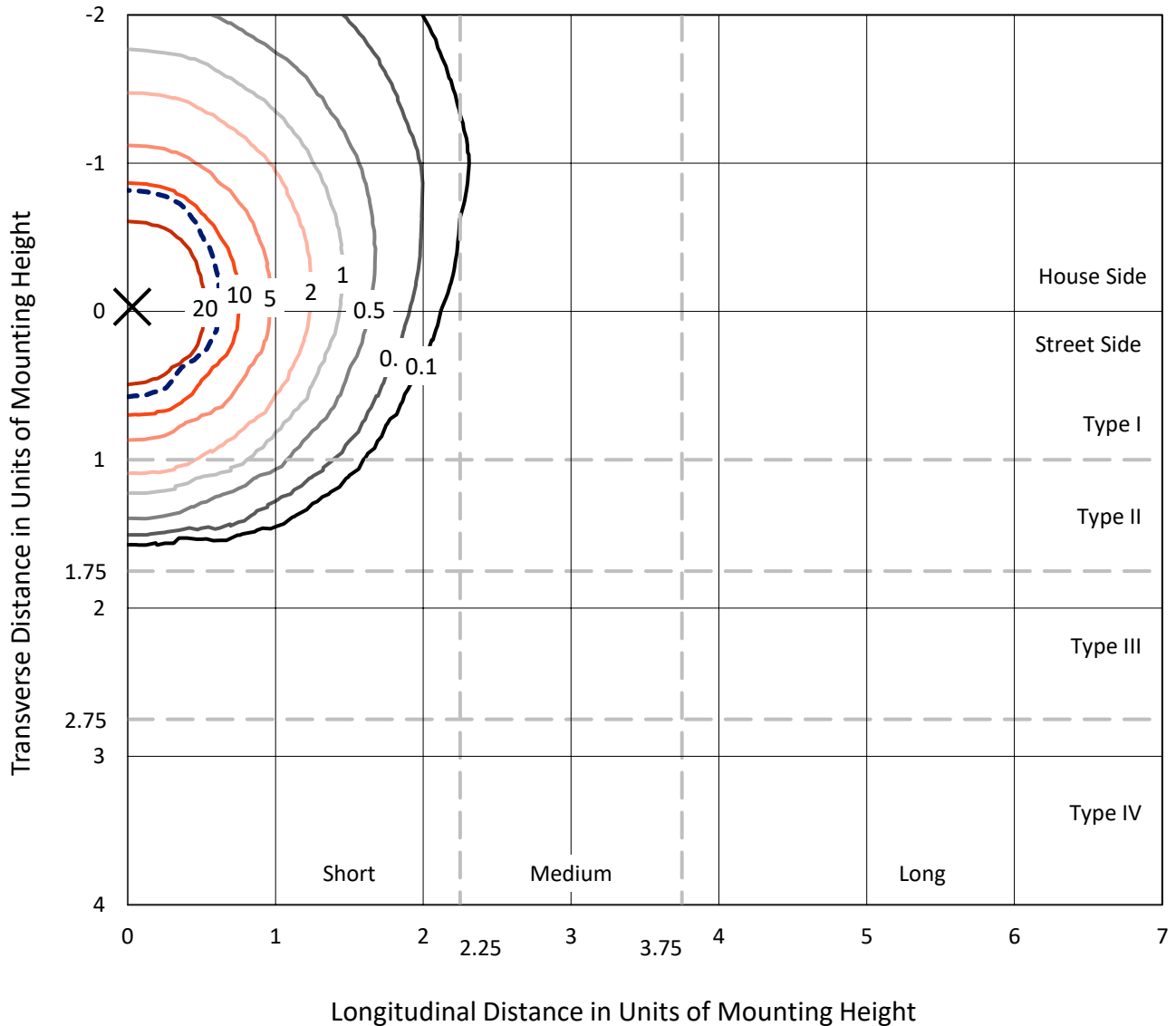
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

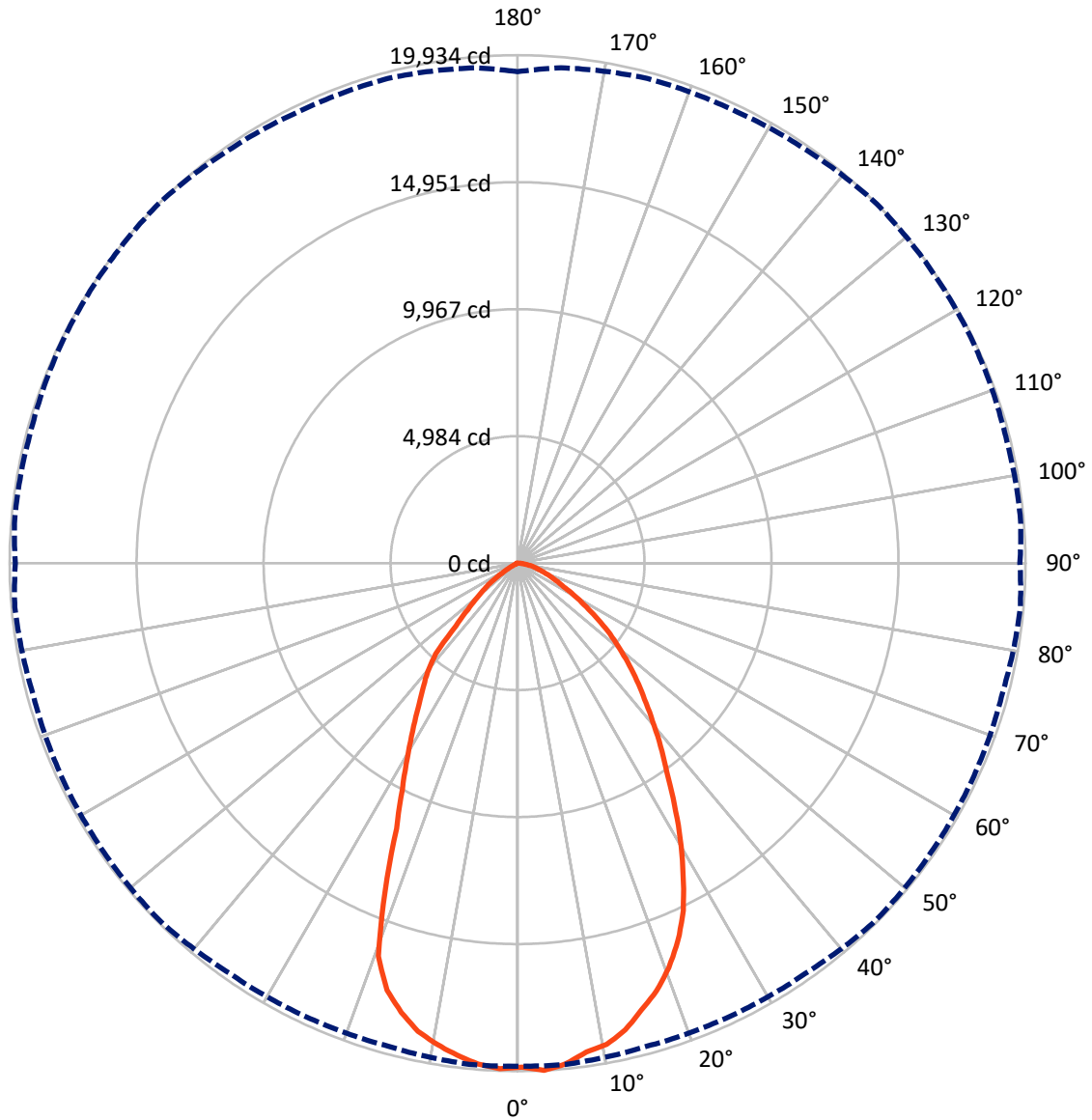
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.4 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	15391.6	0.0	15391.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10596.7	0.0	10596.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	25988.4	0.0	25988.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1854.8	7.1
10°-20°	4973.7	19.1
20°-30°	6065.7	23.3
30°-40°	5537.9	21.3
40°-50°	4002.1	15.4
50°-60°	2185.2	8.4
60°-70°	903.5	3.5
70°-80°	365.9	1.4
80°-90°	99.5	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°	25988.4	100.0
0°-180°	25988.4	100.0



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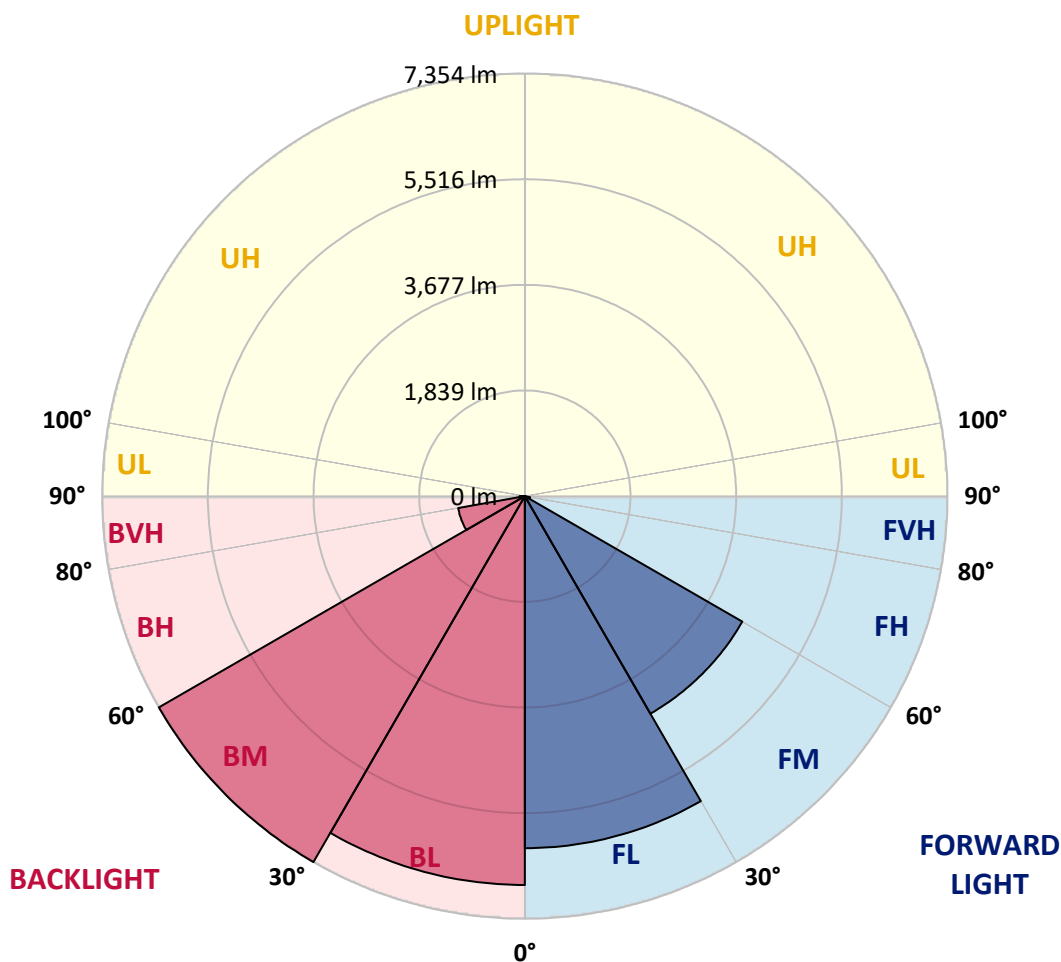
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6126.4	23.6			
FM (30°-60°)	4370.8	16.8			
FH (60°-80°)	91.6	0.4			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	6767.7	26.0	B5		
BM (30°-60°)	7354.5	28.3	B4/8500		
BH (60°-80°)	1177.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	91.6	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°	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1
2.5°	19740.5	19766.1	19627.0	19641.7	19667.3	19853.9	19806.3	19762.4	19700.2	19806.3
5°	19714.9	19729.5	19583.1	19531.9	19553.8	19722.2	19568.5	19568.5	19553.8	19535.5
7.5°	19517.2	19524.6	19411.1	19319.6	19378.2	19455.0	19341.6	19396.5	19315.9	19378.2
10°	19220.8	19173.2	19037.8	19012.2	19078.1	19151.3	19074.4	19125.6	19052.4	19100.0
12.5°	18785.3	18712.1	18602.3	18569.4	18682.8	18781.6	18719.4	18690.1	18595.0	18712.1
15°	17105.5	17050.6	17299.4	17735.0	18126.5	18210.7	18144.8	18174.1	17976.5	18009.4
17.5°	14078.9	13976.4	14243.6	15275.6	16746.8	17522.7	17464.1	17273.8	16981.1	17046.9
20°	12794.3	12765.1	12735.8	12981.0	14009.4	16362.6	16443.1	15960.0	15542.8	15451.3
22.5°	12069.7	12058.7	12029.5	12084.4	12355.2	13866.6	14788.9	14342.4	14064.3	14038.6
25°	11407.3	11389.0	11301.2	11370.7	11370.7	11458.6	12640.6	12911.5	12666.3	12637.0
27.5°	10733.9	10701.0	10686.4	10719.3	10550.9	9958.1	10258.2	11579.3	11451.2	11458.6
30°	10005.6	9994.7	9954.4	10023.9	9504.3	8768.7	8578.4	10371.6	10397.2	10389.9
32.5°	8922.4	8969.9	9152.9	9229.8	8373.4	7765.9	7447.5	8973.6	9496.9	9486.0
35°	6481.3	6481.3	7077.9	8186.8	7337.7	6880.3	6708.2	7608.5	8607.6	8644.2
37.5°	5328.5	5346.8	5463.9	5969.0	6331.3	6170.3	6119.0	6404.5	7465.8	7524.4
40°	4794.2	4794.2	4794.2	4585.6	4574.6	5559.1	5529.8	5438.3	6448.4	6576.5
42.5°	4307.5	4318.5	4325.8	3798.8	3506.0	4805.2	4739.3	4600.3	5537.1	5687.2
45°	3806.1	3824.4	3846.4	3176.6	3048.5	3458.4	4011.0	3857.3	4636.9	4830.8
47.5°	2323.9	2353.2	2850.9	2693.5	2708.2	2667.9	3271.8	3246.2	3802.4	4076.9
50°	1570.0	1581.0	1628.6	1709.1	2323.9	2097.0	2316.6	2686.2	2887.5	3304.7
52.5°	1317.5	1335.8	1218.7	1108.9	1526.1	1639.6	1617.6	1994.5	2075.1	2591.1
55°	925.9	984.5	929.6	918.6	867.4	1273.6	1226.0	1533.4	1584.7	1968.9
57.5°	95.2	109.8	190.3	684.4	567.3	721.0	874.7	1123.5	1174.8	1452.9
60°	7.3	7.3	18.3	95.2	413.5	431.8	603.9	691.7	790.5	1013.7
62.5°	0.0	3.7	7.3	14.6	65.9	230.6	303.8	362.3	475.8	655.1
65°	0.0	0.0	3.7	11.0	14.6	87.8	117.1	190.3	259.8	406.2
67.5°	0.0	0.0	3.7	7.3	11.0	22.0	40.3	69.5	139.1	230.6
70°	0.0	0.0	3.7	7.3	11.0	18.3	29.3	43.9	62.2	124.4
72.5°	0.0	0.0	3.7	3.7	7.3	18.3	22.0	29.3	43.9	62.2
75°	0.0	0.0	3.7	3.7	11.0	22.0	18.3	22.0	29.3	40.3
77.5°	0.0	0.0	3.7	7.3	11.0	22.0	18.3	22.0	22.0	25.6
80°	0.0	0.0	3.7	7.3	14.6	25.6	22.0	22.0	18.3	18.3
82.5°	0.0	0.0	3.7	11.0	14.6	32.9	32.9	29.3	14.6	11.0
85°	0.0	0.0	7.3	14.6	22.0	36.6	36.6	29.3	11.0	7.3
87.5°	0.0	0.0	7.3	11.0	18.3	25.6	36.6	29.3	11.0	3.7
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°
19777.1	0°	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1	19777.1
19714.9	2.5°	19813.7	19791.7	19864.9	19894.2	19934.4	19780.7	19685.6	19689.2	19513.6
19491.6	5°	19608.7	19612.4	19707.5	19700.2	19740.5	19656.3	19619.7	19557.5	19403.8
19209.8	7.5°	19348.9	19315.9	19407.4	19477.0	19374.5	19433.1	19348.9	19378.2	19286.7
18961.0	10°	19147.6	19070.7	19154.9	19202.5	19206.2	19147.6	19067.1	18990.2	18957.3
18573.0	12.5°	18701.1	18602.3	18745.0	18810.9	18799.9	18686.5	18595.0	18613.3	18507.2
17892.3	15°	18086.3	18089.9	18192.4	18254.6	18196.1	18170.5	18177.8	18133.9	18042.4
16951.8	17.5°	17145.7	17200.6	17471.5	17621.5	17654.4	17603.2	17577.6	17526.4	17434.9
15451.3	20°	15579.4	15908.8	16391.8	16856.6	16948.1	16933.5	16842.0	16820.0	16768.8
13965.5	22.5°	14203.3	14448.5	15008.5	15733.1	16106.4	16143.0	16033.2	16000.3	15945.4
12637.0	25°	12779.7	13043.2	13548.2	14335.1	15107.3	15264.6	15246.4	15147.5	15089.0
11458.6	27.5°	11579.3	11842.8	12300.3	13010.3	13837.4	14342.4	14390.0	14232.6	14229.0
10408.2	30°	10496.0	10858.4	11206.0	11784.3	12585.7	13343.3	13423.8	13314.0	13325.0
9445.7	32.5°	9647.0	9947.1	10243.5	10631.5	11297.5	12179.5	12494.2	12391.8	12351.5
8644.2	35°	8779.6	8984.6	9288.3	9643.3	10097.1	10971.8	11517.1	11440.3	11400.0
7561.0	37.5°	7791.5	8142.9	8362.4	8761.3	9116.3	9811.7	10580.2	10569.2	10485.1
6638.7	40°	6777.8	7147.4	7480.4	7883.0	8157.5	8710.1	9562.8	9559.2	9570.1
5683.5	42.5°	5859.2	6199.5	6602.1	7041.3	7304.8	7707.3	8622.3	8673.5	8735.7
4896.7	45°	5028.4	5335.9	5709.1	6243.5	6561.9	6792.4	7604.9	7839.1	7835.4
4194.0	47.5°	4281.9	4571.0	4885.7	5405.4	5811.6	6020.2	6693.6	7026.6	7004.7
3440.1	50°	3593.8	3850.0	4179.4	4556.3	5101.6	5284.6	5786.0	6225.2	6192.2
2741.1	52.5°	2891.2	3246.2	3524.3	3868.3	4442.9	4622.2	5010.1	5438.3	5412.7
2056.8	55°	2254.4	2598.4	2935.1	3231.5	3714.6	3981.8	4259.9	4699.1	4691.7
1610.3	57.5°	1705.4	2082.4	2400.8	2682.6	3066.8	3396.2	3619.5	4018.4	4069.6
1101.6	60°	1262.6	1551.7	1895.7	2210.5	2514.2	2854.6	3004.6	3396.2	3418.2
753.9	62.5°	860.0	1178.4	1515.1	1800.6	2027.5	2378.8	2514.2	2836.3	2876.5
483.1	65°	596.5	801.5	1185.7	1390.7	1668.8	1968.9	2104.3	2360.5	2441.0
278.1	67.5°	395.2	570.9	925.9	1112.6	1387.0	1592.0	1764.0	1972.6	2060.4
175.7	70°	215.9	420.9	662.4	878.3	1116.2	1313.8	1482.2	1650.5	1727.4
80.5	72.5°	146.4	281.8	461.1	695.3	900.3	1094.3	1244.3	1368.7	1372.4
47.6	75°	73.2	190.3	351.3	538.0	702.7	893.0	1028.4	1101.6	1013.7
29.3	77.5°	43.9	139.1	285.5	431.8	570.9	721.0	797.8	838.1	695.3
22.0	80°	25.6	98.8	223.2	344.0	395.2	530.7	603.9	614.8	464.8
14.6	82.5°	18.3	73.2	175.7	252.5	241.5	373.3	453.8	439.2	296.4
11.0	85°	11.0	51.2	109.8	157.4	146.4	245.2	263.5	270.8	172.0
7.3	87.5°	7.3	29.3	58.6	84.2	69.5	106.1	106.1	128.1	84.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19777.1
19286.7
19367.2
19133.0
18810.9
18415.7
17950.9
17394.6
16651.7
15930.7
15026.8
14221.6
13270.1
12355.2
11345.1
10554.6
9570.1
8702.8
7842.8
7012.0
6221.5
5467.6
4710.0
4047.6
3451.1
2883.9
2422.7
2049.4
1698.1
1339.5
947.9
669.7
435.5
274.5
157.4
73.2
0.0

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