

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: P638296

Luminaire Tested: **IFLD-L-SA7C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27094.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

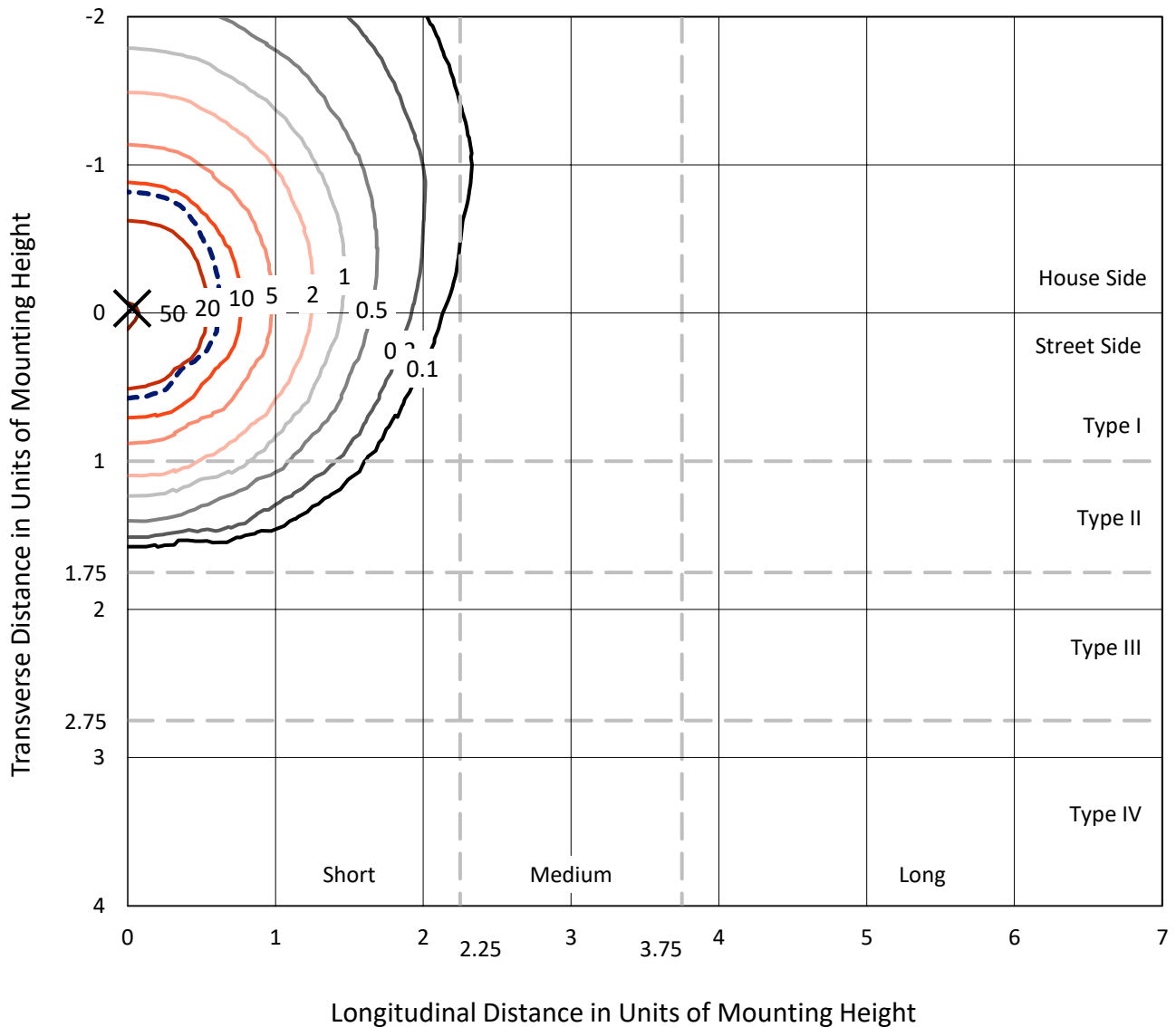
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

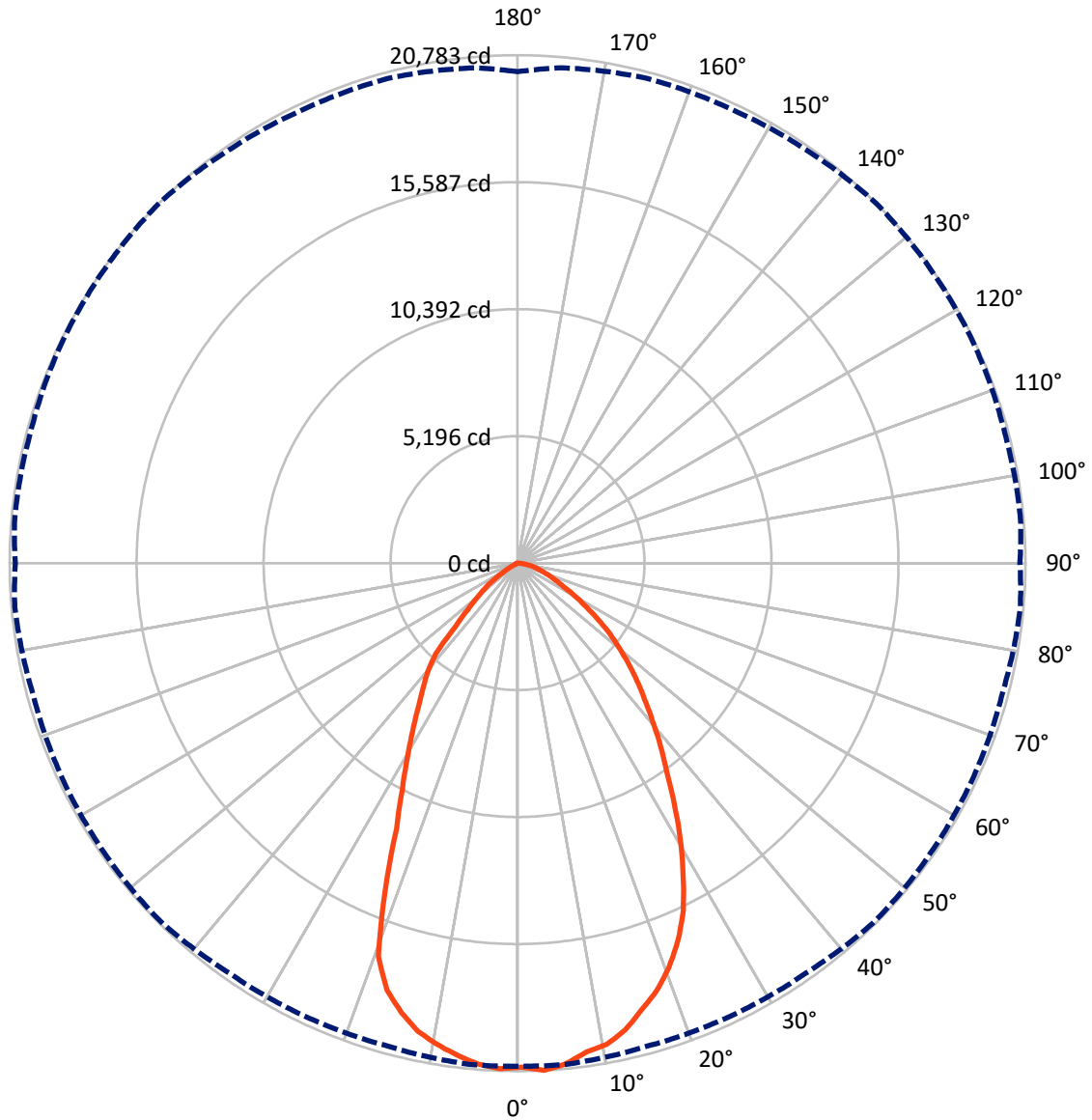
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.5 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	16046.9	0.0	16046.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11047.9	0.0	11047.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	27094.7	0.0	27094.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1933.7	7.1
10°-20°	5185.4	19.1
20°-30°	6323.9	23.3
30°-40°	5773.7	21.3
40°-50°	4172.5	15.4
50°-60°	2278.2	8.4
60°-70°	942.0	3.5
70°-80°	381.5	1.4
80°-90°	103.8	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°	27094.7	100.0
0°-180°	27094.7	100.0



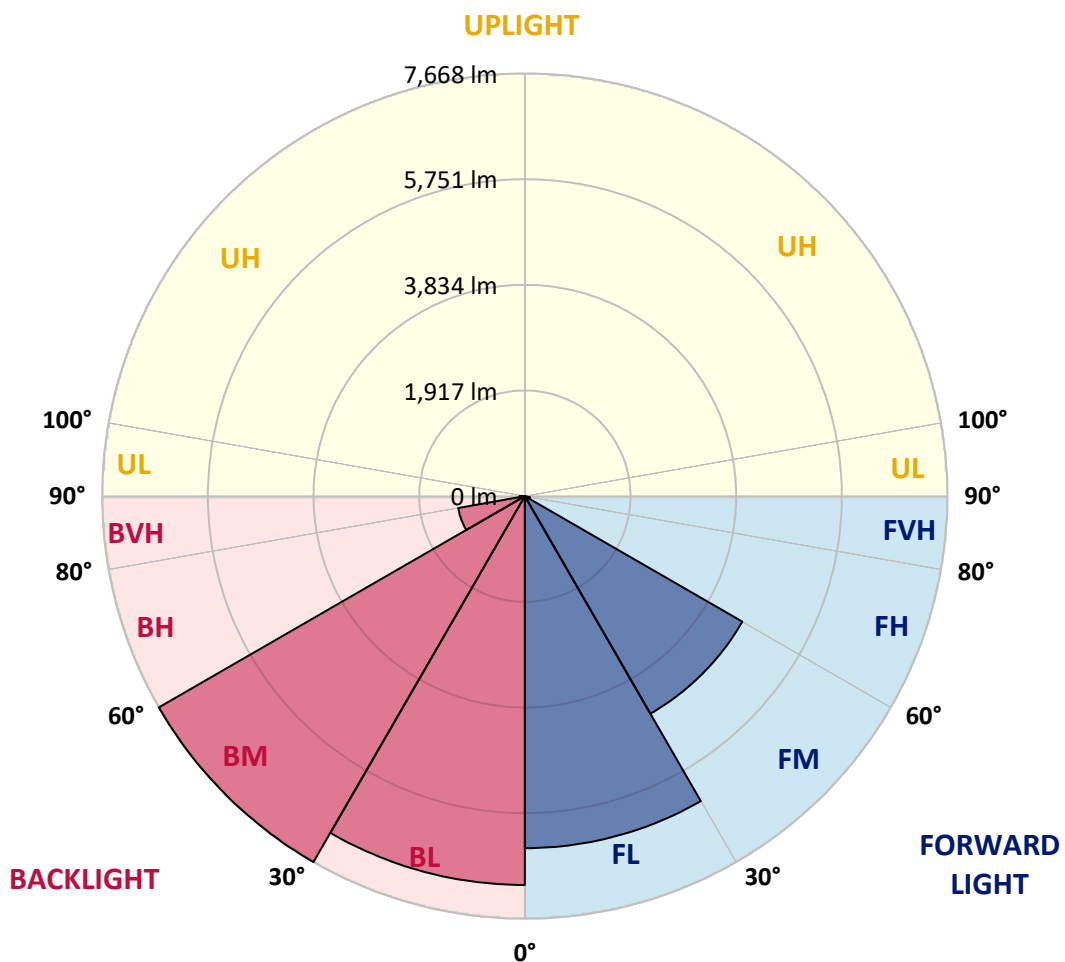
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6387.2	23.6			
FM (30°-60°)	4556.8	16.8			
FH (60°-80°)	95.5	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7055.9	26.0	B5		
BM (30°-60°)	7667.6	28.3	B4/8500		
BH (60°-80°)	1228.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.5	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°	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0
2.5°	20580.9	20607.6	20462.6	20477.8	20504.6	20699.1	20649.5	20603.8	20538.9	20649.5
5°	20554.2	20569.4	20416.8	20363.4	20386.3	20561.8	20401.5	20401.5	20386.3	20367.2
7.5°	20348.1	20355.7	20237.5	20142.1	20203.1	20283.3	20165.0	20222.2	20138.3	20203.1
10°	20039.1	19989.5	19848.3	19821.6	19890.3	19966.6	19886.4	19939.9	19863.5	19913.1
12.5°	19585.0	19508.7	19394.2	19359.9	19478.2	19581.2	19516.3	19485.8	19386.6	19508.7
15°	17833.7	17776.5	18035.9	18490.0	18898.2	18986.0	18917.3	18947.8	18741.8	18776.1
17.5°	14678.3	14571.4	14850.0	15925.9	17459.8	18268.7	18207.6	18009.2	17704.0	17772.6
20°	13339.0	13308.5	13278.0	13533.6	14605.8	17059.1	17143.1	16639.4	16204.5	16109.1
22.5°	12583.6	12572.1	12541.6	12598.8	12881.2	14457.0	15418.5	14953.0	14663.0	14636.3
25°	11892.9	11873.9	11782.3	11854.8	11854.8	11946.4	13178.8	13461.1	13205.5	13175.0
27.5°	11190.9	11156.6	11141.3	11175.6	11000.1	10382.0	10694.9	12072.3	11938.7	11946.4
30°	10431.6	10420.2	10378.2	10450.7	9908.9	9142.0	8943.6	10813.2	10839.9	10832.2
32.5°	9302.2	9351.8	9542.6	9622.7	8729.9	8096.5	7764.6	9355.6	9901.2	9889.8
35°	6757.3	6757.3	7379.2	8535.3	7650.1	7173.2	6993.8	7932.4	8974.1	9012.2
37.5°	5555.4	5574.5	5696.6	6223.1	6600.8	6433.0	6379.5	6677.1	7783.6	7844.7
40°	4998.3	4998.3	4998.3	4780.8	4769.4	5795.8	5765.2	5669.8	6722.9	6856.5
42.5°	4490.9	4502.3	4509.9	3960.5	3655.3	5009.8	4941.1	4796.1	5772.9	5929.3
45°	3968.1	3987.2	4010.1	3311.9	3178.3	3605.7	4181.8	4021.5	4834.3	5036.5
47.5°	2422.8	2453.4	2972.3	2808.2	2823.5	2781.5	3411.1	3384.4	3964.3	4250.5
50°	1636.9	1648.3	1697.9	1781.8	2422.8	2186.3	2415.2	2800.6	3010.4	3445.4
52.5°	1373.6	1392.7	1270.6	1156.1	1591.1	1709.3	1686.5	2079.5	2163.4	2701.4
55°	965.3	1026.4	969.1	957.7	904.3	1327.8	1278.2	1598.7	1652.1	2052.7
57.5°	99.2	114.5	198.4	713.5	591.4	751.7	911.9	1171.4	1224.8	1514.8
60°	7.6	7.6	19.1	99.2	431.2	450.2	629.6	721.1	824.2	1056.9
62.5°	0.0	3.8	7.6	15.3	68.7	240.4	316.7	377.7	496.0	683.0
65°	0.0	0.0	3.8	11.4	15.3	91.6	122.1	198.4	270.9	423.5
67.5°	0.0	0.0	3.8	7.6	11.4	22.9	42.0	72.5	145.0	240.4
70°	0.0	0.0	3.8	7.6	11.4	19.1	30.5	45.8	64.9	129.7
72.5°	0.0	0.0	3.8	3.8	7.6	19.1	22.9	30.5	45.8	64.9
75°	0.0	0.0	3.8	3.8	11.4	22.9	19.1	22.9	30.5	42.0
77.5°	0.0	0.0	3.8	7.6	11.4	22.9	19.1	22.9	22.9	26.7
80°	0.0	0.0	3.8	7.6	15.3	26.7	22.9	22.9	19.1	19.1
82.5°	0.0	0.0	3.8	11.4	15.3	34.3	34.3	30.5	15.3	11.4
85°	0.0	0.0	7.6	15.3	22.9	38.2	38.2	30.5	11.4	7.6
87.5°	0.0	0.0	7.6	11.4	19.1	26.7	38.2	30.5	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°
20619.0	0°	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0	20619.0
20554.2	2.5°	20657.2	20634.3	20710.6	20741.1	20783.1	20622.8	20523.6	20527.4	20344.3
20321.4	5°	20443.5	20447.3	20546.5	20538.9	20580.9	20493.1	20455.0	20390.1	20229.8
20027.6	7.5°	20172.6	20138.3	20233.7	20306.1	20199.3	20260.4	20172.6	20203.1	20107.7
19768.2	10°	19962.7	19882.6	19970.4	20020.0	20023.8	19962.7	19878.8	19798.7	19764.3
19363.7	12.5°	19497.3	19394.2	19543.0	19611.7	19600.3	19482.0	19386.6	19405.7	19295.0
18654.0	15°	18856.3	18860.1	18966.9	19031.8	18970.7	18944.0	18951.6	18905.9	18810.5
17673.4	17.5°	17875.7	17932.9	18215.2	18371.7	18406.0	18352.6	18325.9	18272.5	18177.1
16109.1	20°	16242.6	16586.0	17089.7	17574.2	17669.6	17654.4	17559.0	17536.1	17482.7
14560.0	22.5°	14808.0	15063.6	15647.4	16402.9	16792.1	16830.2	16715.8	16681.4	16624.2
13175.0	25°	13323.8	13598.5	14125.0	14945.4	15750.4	15914.5	15895.4	15792.4	15731.3
11946.4	27.5°	12072.3	12347.0	12823.9	13564.1	14426.4	14953.0	15002.6	14838.5	14834.7
10851.3	30°	10942.9	11320.6	11683.1	12285.9	13121.5	13911.4	13995.3	13880.8	13892.3
9847.8	32.5°	10057.7	10370.6	10679.6	11084.1	11778.5	12698.0	13026.2	12919.3	12877.3
9012.2	35°	9153.4	9367.1	9683.8	10053.9	10527.0	11438.9	12007.4	11927.3	11885.3
7882.8	37.5°	8123.2	8489.5	8718.4	9134.3	9504.4	10229.4	11030.6	11019.2	10931.4
6921.3	40°	7066.3	7451.7	7798.9	8218.6	8504.8	9080.9	9969.9	9966.1	9977.6
5925.5	42.5°	6108.6	6463.5	6883.2	7341.0	7615.8	8035.5	8989.3	9042.8	9107.6
5105.2	45°	5242.5	5563.0	5952.2	6509.3	6841.2	7081.6	7928.6	8172.8	8169.0
4372.6	47.5°	4464.1	4765.6	5093.7	5635.5	6059.0	6276.5	6978.6	7325.8	7302.9
3586.6	50°	3746.8	4013.9	4357.3	4750.3	5318.8	5509.6	6032.3	6490.2	6455.8
2857.8	52.5°	3014.3	3384.4	3674.3	4033.0	4632.0	4819.0	5223.4	5669.8	5643.1
2144.3	55°	2350.4	2709.0	3060.0	3369.1	3872.7	4151.3	4441.3	4899.1	4891.5
1678.8	57.5°	1778.0	2171.0	2503.0	2796.8	3197.4	3540.8	3773.5	4189.4	4242.8
1148.5	60°	1316.4	1617.8	1976.4	2304.6	2621.3	2976.1	3132.5	3540.8	3563.7
786.0	62.5°	896.6	1228.6	1579.6	1877.2	2113.8	2480.1	2621.3	2957.0	2999.0
503.6	65°	621.9	835.6	1236.2	1449.9	1739.9	2052.7	2193.9	2461.0	2544.9
290.0	67.5°	412.1	595.2	965.3	1159.9	1446.1	1659.7	1839.1	2056.6	2148.1
183.1	70°	225.1	438.8	690.6	915.7	1163.7	1369.8	1545.3	1720.8	1800.9
83.9	72.5°	152.6	293.8	480.8	724.9	938.6	1140.8	1297.3	1427.0	1430.8
49.6	75°	76.3	198.4	366.3	560.9	732.6	931.0	1072.2	1148.5	1056.9
30.5	77.5°	45.8	145.0	297.6	450.2	595.2	751.7	831.8	873.8	724.9
22.9	80°	26.7	103.0	232.7	358.7	412.1	553.2	629.6	641.0	484.6
15.3	82.5°	19.1	76.3	183.1	263.3	251.8	389.2	473.1	457.9	309.1
11.4	85°	11.4	53.4	114.5	164.1	152.6	255.6	274.7	282.3	179.3
7.6	87.5°	7.6	30.5	61.0	87.8	72.5	110.6	110.6	133.5	87.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20619.0
20107.7
20191.7
19947.5
19611.7
19199.6
18715.1
18135.1
17360.6
16608.9
15666.5
14827.1
13835.0
12881.2
11828.1
11003.9
9977.6
9073.3
8176.6
7310.5
6486.4
5700.4
4910.6
4220.0
3598.0
3006.6
2525.9
2136.7
1770.4
1396.5
988.2
698.2
454.0
286.2
164.1
76.3
0.0

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