

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: P636876

Luminaire Tested: **IFLD-L-SA7D-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22761.2 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

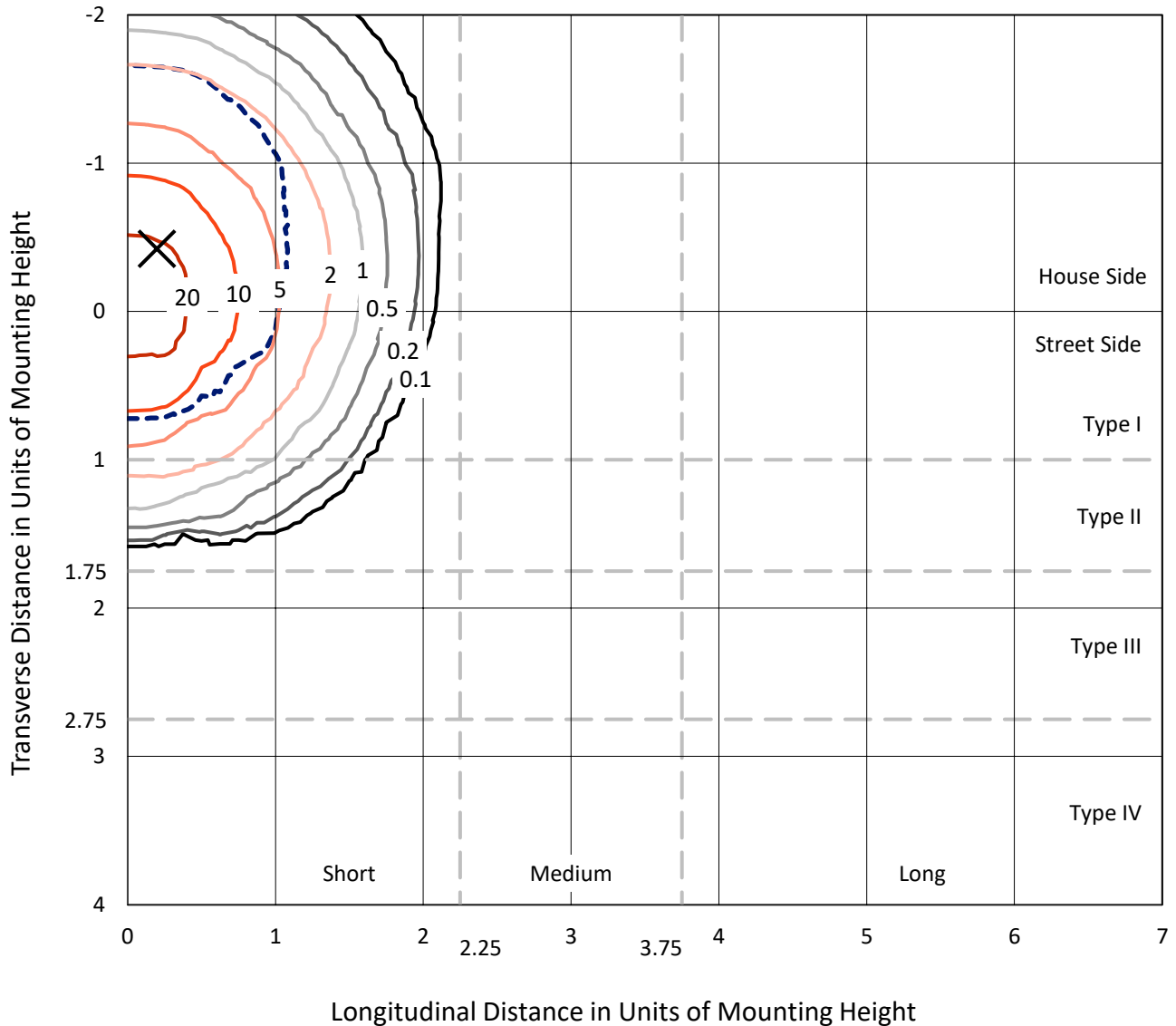
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

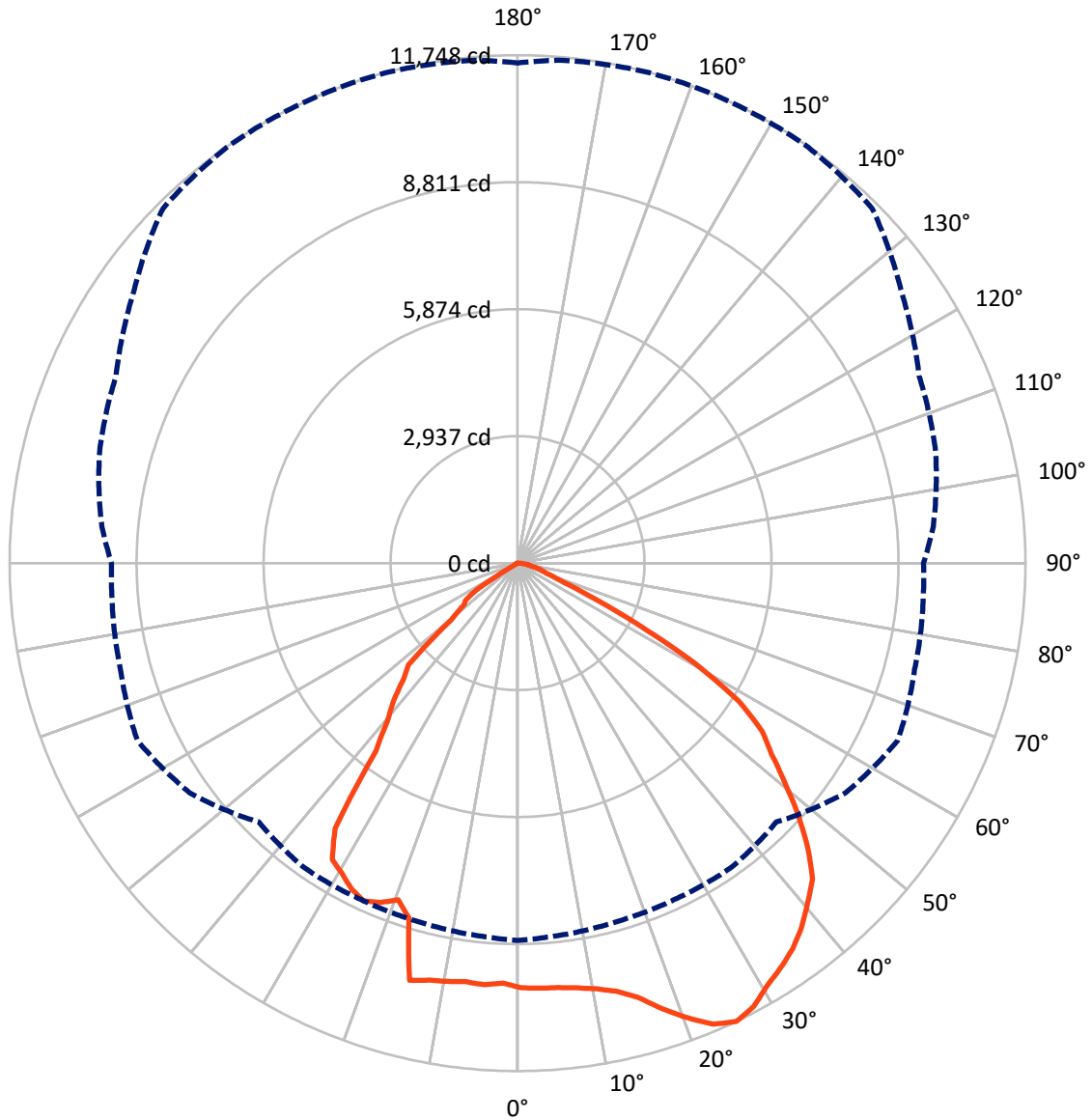
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14091.5	0.0	14091.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8669.7	0.0	8669.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	22761.2	0.0	22761.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.2	4.1
10°-20°	2877.0	12.6
20°-30°	4548.3	20.0
30°-40°	5137.7	22.6
40°-50°	4811.6	21.1
50°-60°	3317.2	14.6
60°-70°	891.2	3.9
70°-80°	185.7	0.8
80°-90°	50.2	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°	22761.2	100.0
0°-180°	22761.2	100.0



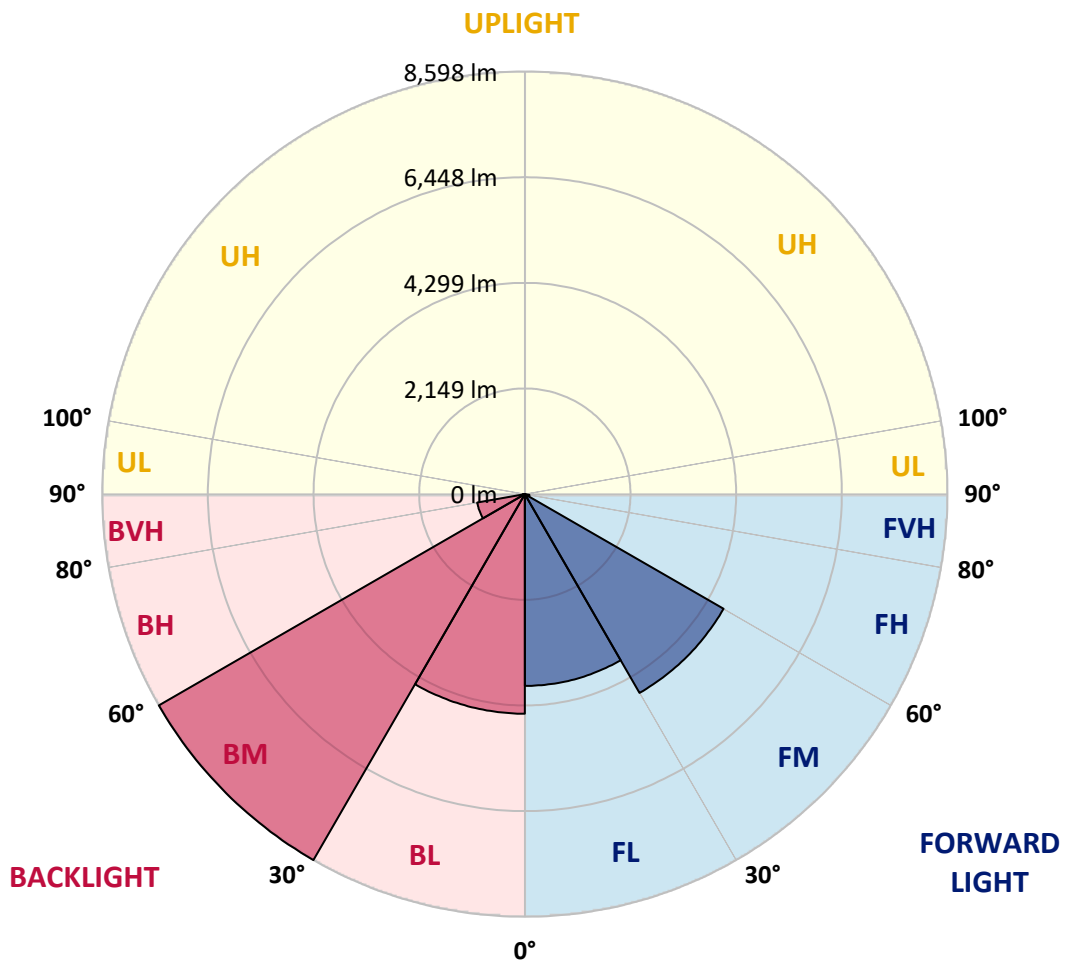
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3900.5	17.1			
FM (30°-60°)	4668.8	20.5			
FH (60°-80°)	93.6	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	4466.9	19.6	B4/5000		
BM (30°-60°)	8597.7	37.8	B5		
BH (60°-80°)	983.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	43.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0
2.5°	9864.5	9801.0	9740.8	9720.7	9804.3	9894.6	9837.8	9841.1	9821.0	9857.8
5°	9938.1	9851.2	9811.0	9780.9	9794.3	9887.9	9807.7	9837.8	9804.3	9847.8
7.5°	9911.4	9851.2	9811.0	9754.1	9797.6	9908.0	9831.1	9834.4	9817.7	9857.8
10°	9894.6	9851.2	9801.0	9807.7	9857.8	9951.5	9891.3	9924.7	9901.3	9924.7
12.5°	9934.8	9887.9	9861.2	9861.2	9904.7	10011.7	9981.6	10011.7	10001.7	10021.7
15°	9556.8	9600.3	9854.5	9968.2	10055.2	10162.2	10148.9	10179.0	10185.7	10215.8
17.5°	8061.6	8018.1	7998.0	8583.4	10138.8	10470.0	10459.9	10456.6	10423.2	10399.7
20°	8258.9	8242.2	8218.8	8262.3	8436.2	10630.5	10697.4	10286.0	10165.6	10155.6
22.5°	8573.3	8546.6	8459.6	8463.0	8516.5	9242.4	10366.3	9991.6	9951.5	9928.1
25°	8727.2	8673.7	8603.5	8583.4	8600.1	8466.3	9259.1	9704.0	9506.6	9416.3
27.5°	8456.3	8459.6	8402.7	8456.3	8392.7	7790.6	7452.8	9142.0	9135.3	9095.2
30°	8252.2	8242.2	8175.3	8242.2	7804.0	7131.6	6987.8	8526.5	8456.3	8402.7
32.5°	7626.7	7633.4	7827.4	8088.3	7369.1	6837.3	6402.4	7616.7	8282.3	8252.2
35°	5455.8	5469.1	6158.2	7446.1	6710.2	6251.9	6218.4	6583.0	8008.0	8021.4
37.5°	5251.7	5251.7	5235.0	5445.7	6191.7	6014.4	6081.3	6044.5	7335.7	7369.1
40°	5104.5	5074.4	5051.0	4719.9	4305.1	5847.1	5894.0	5726.7	6934.3	6941.0
42.5°	4927.2	4893.8	4900.5	4288.3	3853.5	5432.3	5301.9	5077.8	6265.3	6272.0
45°	4602.8	4659.6	4699.8	3753.1	3719.7	3880.2	4890.5	4750.0	5813.7	5937.5
47.5°	2341.5	2391.7	3669.5	3452.1	3529.0	3448.7	4131.1	4134.5	4836.9	5248.4
50°	2124.1	2110.7	2114.1	2013.7	3258.1	2789.8	2987.1	3789.9	3873.6	4462.3
52.5°	1980.3	1976.9	1772.9	1575.5	2047.2	2455.3	2167.6	2742.9	2880.1	3779.9
55°	1465.1	1572.2	1398.2	1481.9	1281.2	1966.9	1956.9	2475.3	2522.2	3030.6
57.5°	13.4	16.7	40.1	1127.3	886.4	983.4	1351.4	1689.2	1772.9	2361.6
60°	3.3	6.7	16.7	33.5	575.3	605.5	903.2	976.8	1100.5	1408.3
62.5°	0.0	0.0	6.7	16.7	30.1	247.5	287.7	314.4	485.0	719.2
65°	0.0	0.0	3.3	10.0	16.7	40.1	70.2	147.2	210.7	260.9
67.5°	0.0	0.0	3.3	6.7	13.4	20.1	40.1	56.9	90.3	153.9
70°	0.0	0.0	3.3	6.7	10.0	16.7	26.8	40.1	53.5	76.9
72.5°	0.0	0.0	3.3	6.7	6.7	20.1	20.1	30.1	40.1	50.2
75°	0.0	0.0	3.3	3.3	6.7	13.4	20.1	23.4	26.8	40.1
77.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	26.8	23.4	23.4
80°	0.0	0.0	3.3	10.0	10.0	16.7	20.1	26.8	16.7	16.7
82.5°	0.0	0.0	3.3	13.4	10.0	33.5	33.5	36.8	13.4	13.4
85°	0.0	0.0	10.0	6.7	20.1	33.5	30.1	20.1	16.7	10.0
87.5°	0.0	0.0	3.3	3.3	6.7	10.0	23.4	20.1	6.7	6.7
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°
9821.0	0°	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0	9821.0
9760.8	2.5°	9894.6	9851.2	9941.5	9931.4	9887.9	9867.9	9844.5	9824.4	9677.2
9767.5	5°	9898.0	9831.1	9941.5	9921.4	9914.7	9881.3	9861.2	9891.3	9757.5
9794.3	7.5°	9898.0	9831.1	9951.5	9958.2	9948.2	9921.4	9918.1	9938.1	9827.7
9841.1	10°	9964.9	9938.1	10038.5	10048.5	10035.1	10028.4	10011.7	9998.3	9881.3
10001.7	12.5°	10105.4	10051.9	10165.6	10195.7	10185.7	10202.4	10162.2	10182.3	10061.9
10165.6	15°	10276.0	10279.3	10366.3	10433.2	10426.5	10480.0	10419.8	10473.3	10386.4
10352.9	17.5°	10536.9	10573.7	10697.4	10797.8	10834.6	10874.7	10834.6	10851.3	10727.6
10145.5	20°	10262.6	10399.7	10995.2	11179.1	11256.1	11292.9	11226.0	11246.0	11122.3
9891.3	22.5°	10015.1	10192.3	10720.9	11296.2	11533.7	11607.3	11583.9	11580.5	11533.7
9389.5	25°	9650.4	10008.4	10245.9	10854.7	11600.6	11734.4	11747.8	11744.4	11674.2
9081.8	27.5°	9202.2	9282.5	9898.0	10269.3	11132.3	11640.7	11620.7	11523.7	11430.0
8442.9	30°	8630.2	8994.8	9272.5	9864.5	10526.9	11353.1	11353.1	11279.5	11182.5
8215.4	32.5°	8339.2	8810.8	9068.4	9282.5	9847.8	11032.0	11165.8	11088.8	11011.9
8038.1	35°	8185.3	8255.6	8857.7	9051.7	9530.0	10413.1	10955.0	10878.1	10821.2
7566.5	37.5°	7847.5	8011.4	8292.4	8810.8	8958.0	9908.0	10674.0	10633.9	10567.0
6954.3	40°	7094.8	7533.0	7964.5	8456.3	8610.1	9259.1	10332.8	10349.6	10259.2
6302.1	42.5°	6649.9	6947.7	7623.4	7954.5	8369.3	8840.9	10001.7	10028.4	9964.9
5970.9	45°	6128.1	6459.3	6934.3	7536.4	8101.7	8265.6	9416.3	9697.3	9643.8
5311.9	47.5°	5649.8	5917.4	6499.4	7108.2	7733.7	7710.3	8743.9	9272.5	9198.9
4806.8	50°	4970.7	5439.0	5713.3	6272.0	7205.2	7268.8	8028.1	8774.0	8713.8
4084.3	52.5°	4191.3	4780.1	5305.2	5817.0	6670.0	6820.5	7362.4	8265.6	8225.5
3120.9	55°	3662.8	4091.0	4683.1	5094.5	6021.1	6422.5	6864.0	7780.6	7760.5
2565.6	57.5°	2605.8	3432.0	3920.4	4495.7	4984.1	5710.0	6037.8	6793.8	6606.5
1421.6	60°	1766.2	2154.2	2749.6	3368.5	3696.3	4422.1	4726.5	5332.0	5281.8
849.6	62.5°	933.3	1291.2	1716.0	2027.1	2264.6	2970.4	3097.5	3749.8	3733.1
341.2	65°	411.4	545.2	929.9	1090.5	1334.7	1662.5	1772.9	2007.0	1950.2
167.3	67.5°	214.1	324.5	525.2	645.6	812.8	936.6	1026.9	1100.5	1147.3
110.4	70°	130.5	237.5	324.5	448.2	558.6	659.0	729.2	829.6	889.8
56.9	72.5°	97.0	150.5	224.1	344.5	404.8	521.8	592.1	665.7	719.2
46.8	75°	53.5	100.4	180.6	270.9	324.5	424.8	488.4	538.6	555.3
26.8	77.5°	33.5	76.9	150.5	210.7	254.2	344.5	327.8	374.6	414.8
20.1	80°	23.4	56.9	117.1	173.9	177.3	220.8	260.9	301.1	327.8
13.4	82.5°	16.7	46.8	87.0	133.8	117.1	170.6	204.0	234.2	170.6
10.0	85°	13.4	33.5	43.5	80.3	66.9	120.4	103.7	100.4	66.9
6.7	87.5°	10.0	16.7	30.1	36.8	26.8	26.8	33.5	40.1	33.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9821.0
9576.9
9643.8
9700.6
9784.3
9954.8
10242.5
10620.5
11035.3
11383.2
<i>11567.2</i>
11356.4
11145.7
10948.3
10740.9
10500.1
10239.2
9958.2
9650.4
9252.4
8723.9
8252.2
7783.9
6586.4
5285.2
3736.4
1926.7
1147.3
893.1
729.2
545.2
421.5
331.2
123.8
66.9
33.5
0.0

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