

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: P638561

Luminaire Tested: **IFLD-L-SA8B-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638561
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23835.1 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

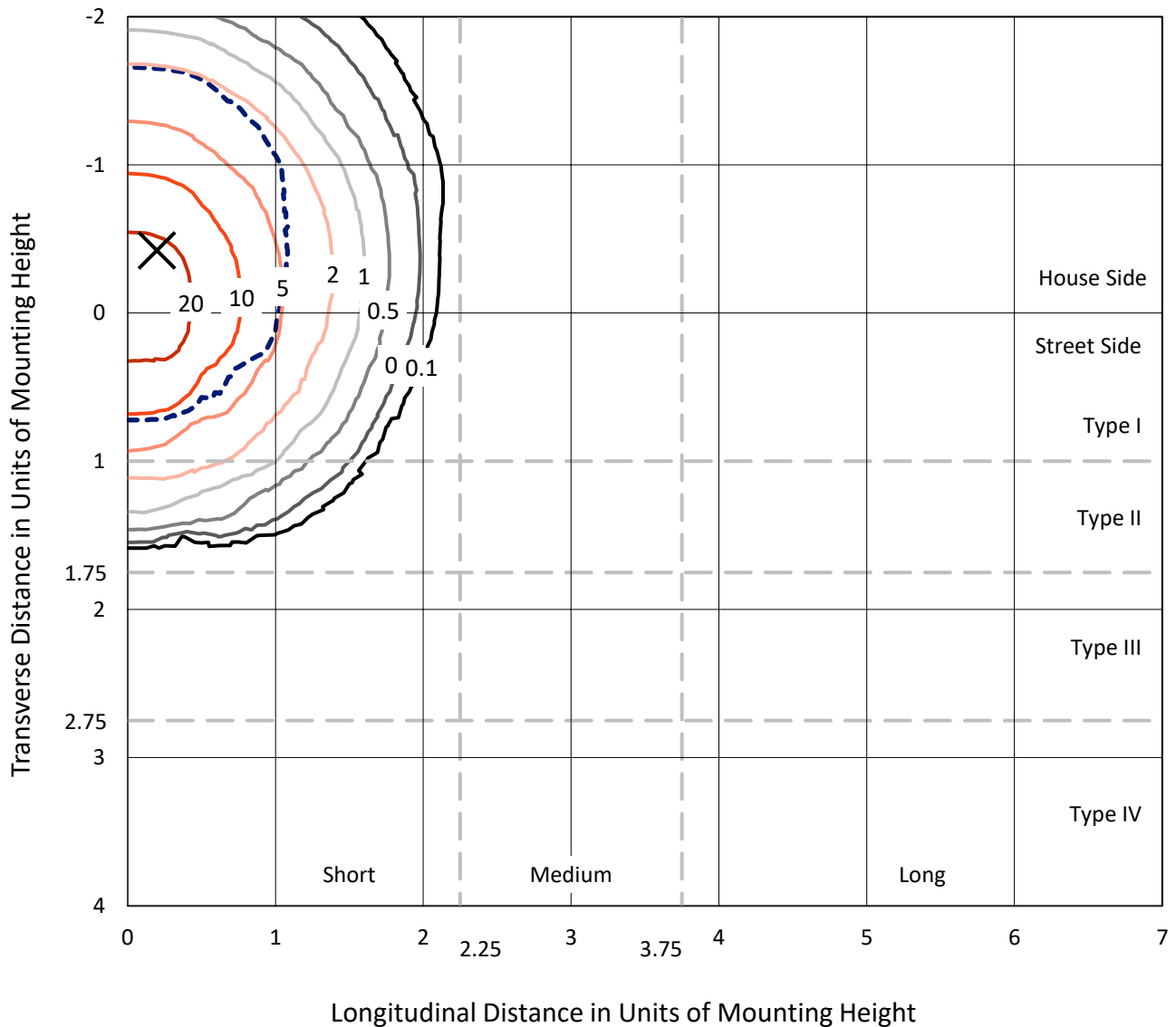
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

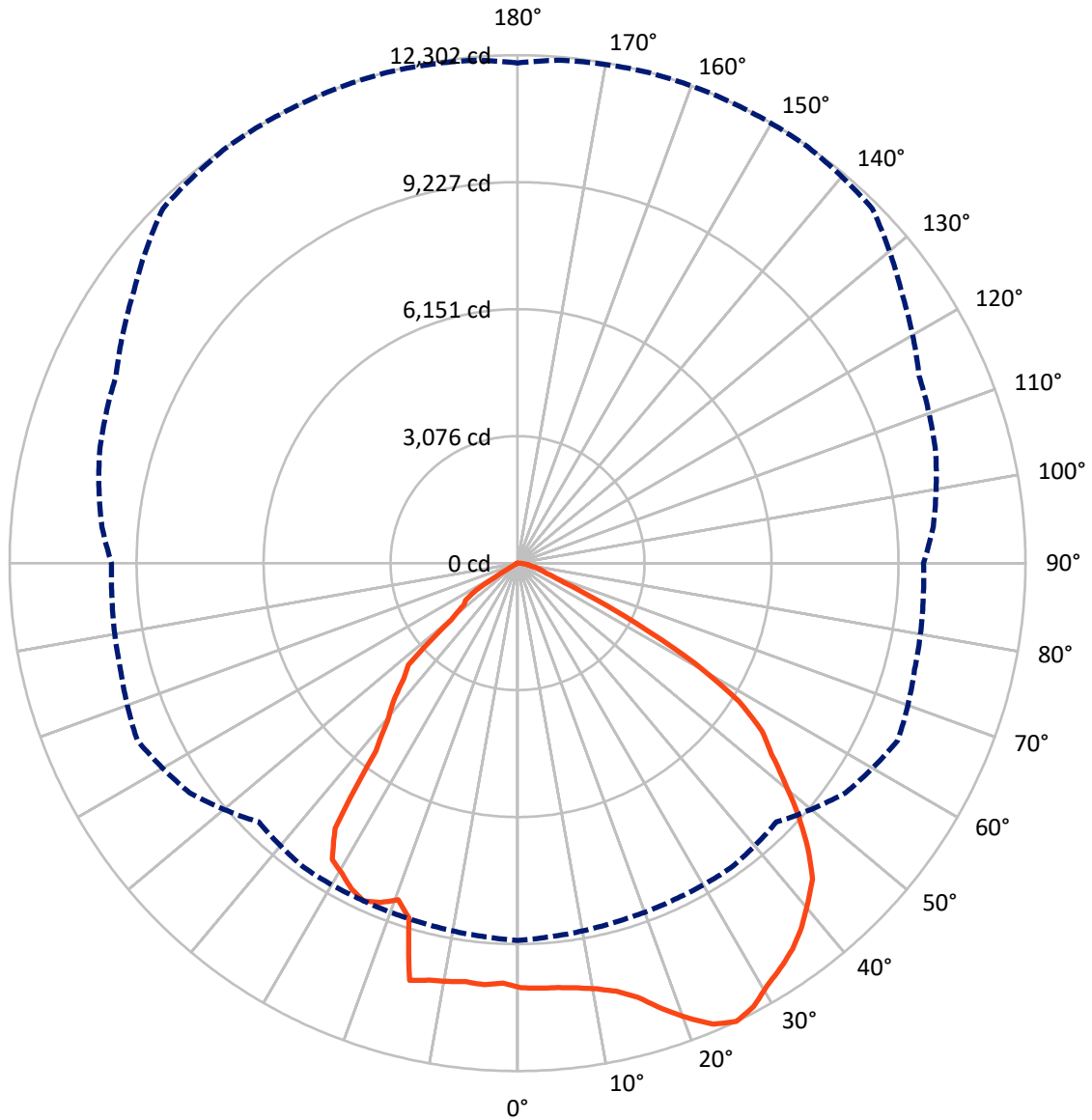
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.7 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	14756.4	0.0	14756.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9078.7	0.0	9078.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	23835.1	0.0	23835.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.7	4.1
10°-20°	3012.7	12.6
20°-30°	4762.9	20.0
30°-40°	5380.1	22.6
40°-50°	5038.6	21.1
50°-60°	3473.8	14.6
60°-70°	933.3	3.9
70°-80°	194.5	0.8
80°-90°	52.6	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°	23835.1	100.0
0°-180°	23835.1	100.0



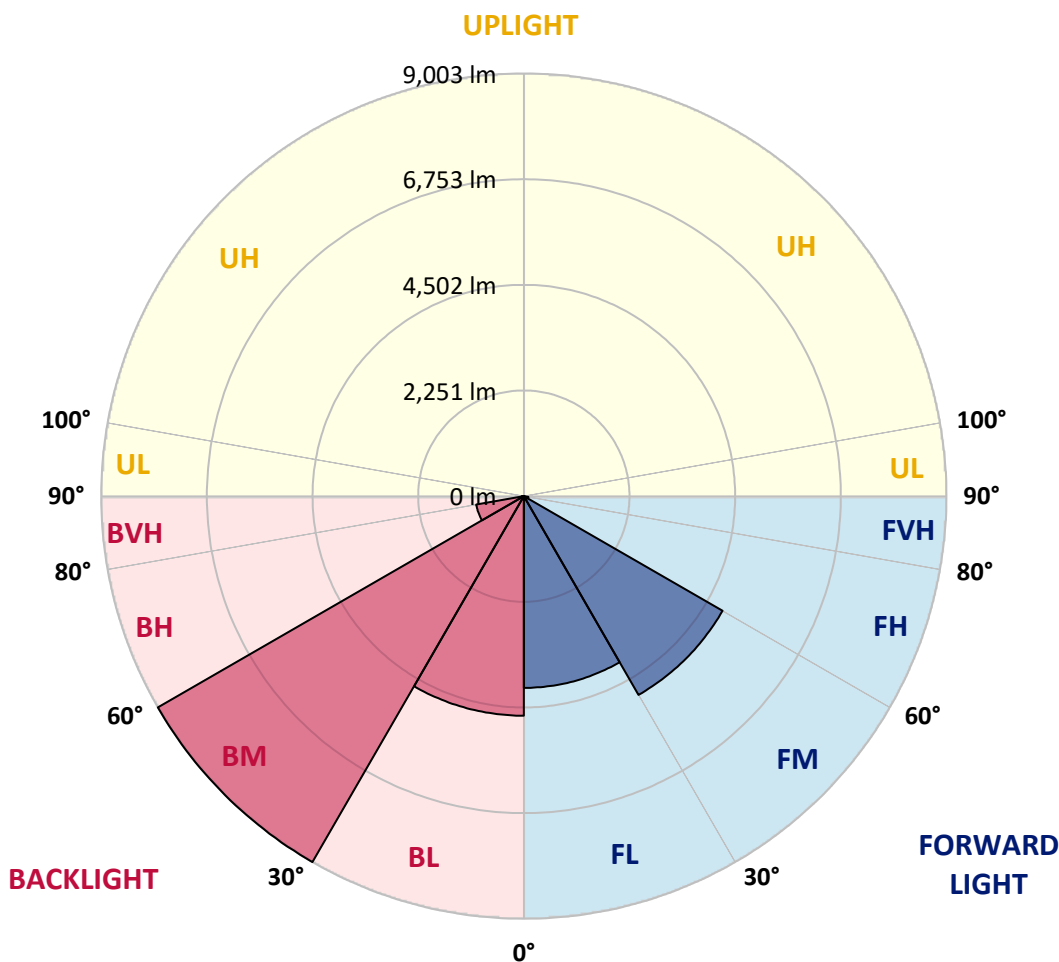
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4084.6	17.1			
FM (30°-60°)	4889.1	20.5			
FH (60°-80°)	98.0	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	4677.7	19.6	B4/5000		
BM (30°-60°)	9003.4	37.8	B5		
BH (60°-80°)	1029.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.6	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4
2.5°	10330.0	10263.4	10200.4	10179.4	10266.9	10361.5	10302.0	10305.5	10284.4	10323.0
5°	10407.0	10316.0	10273.9	10242.4	10256.4	10354.5	10270.4	10302.0	10266.9	10312.5
7.5°	10379.0	10316.0	10273.9	10214.4	10259.9	10375.5	10295.0	10298.5	10280.9	10323.0
10°	10361.5	10316.0	10263.4	10270.4	10323.0	10421.1	10358.0	10393.0	10368.5	10393.0
12.5°	10403.5	10354.5	10326.5	10326.5	10372.0	10484.1	10452.6	10484.1	10473.6	10494.6
15°	10007.7	10053.3	10319.5	10438.6	10529.6	10641.7	10627.7	10659.3	10666.3	10697.8
17.5°	8441.9	8396.4	8375.4	8988.4	10617.2	10964.0	10953.5	10950.0	10915.0	10890.4
20°	8648.6	8631.1	8606.6	8652.1	8834.3	11132.1	11202.2	10771.3	10645.2	10634.7
22.5°	8977.9	8949.8	8858.8	8862.3	8918.3	9678.4	10855.4	10463.1	10421.1	10396.5
25°	9139.0	9083.0	9009.4	8988.4	9005.9	8865.8	9696.0	10161.8	9955.2	9860.6
27.5°	8855.3	8858.8	8799.2	8855.3	8788.7	8158.2	7804.4	9573.4	9566.4	9524.3
30°	8641.6	8631.1	8561.0	8631.1	8172.2	7468.1	7317.5	8928.8	8855.3	8799.2
32.5°	7986.6	7993.6	8196.7	8470.0	7716.8	7159.9	6704.5	7976.0	8673.1	8641.6
35°	5713.2	5727.2	6448.8	7797.4	7026.8	6546.9	6511.8	6893.7	8385.9	8399.9
37.5°	5499.5	5499.5	5482.0	5702.7	6483.8	6298.2	6368.2	6329.7	7681.8	7716.8
40°	5345.4	5313.9	5289.3	4942.6	4508.2	6123.0	6172.1	5996.9	7261.5	7268.5
42.5°	5159.7	5124.7	5131.7	4490.7	4035.3	5688.7	5552.1	5317.4	6560.9	6567.9
45°	4820.0	4879.5	4921.5	3930.2	3895.2	4063.3	5121.2	4974.1	6088.0	6217.6
47.5°	2452.0	2504.6	3842.7	3615.0	3695.5	3611.5	4326.1	4329.6	5065.2	5496.0
50°	2224.3	2210.3	2213.8	2108.7	3411.8	2921.4	3128.1	3968.8	4056.3	4672.8
52.5°	2073.7	2070.2	1856.5	1649.9	2143.8	2571.1	2269.9	2872.4	3016.0	3958.3
55°	1534.3	1646.4	1464.2	1551.8	1341.6	2059.7	2049.2	2592.1	2641.2	3173.6
57.5°	14.0	17.5	42.0	1180.5	928.3	1029.8	1415.2	1769.0	1856.5	2473.0
60°	3.5	7.0	17.5	35.0	602.5	634.0	945.8	1022.8	1152.4	1474.7
62.5°	0.0	0.0	7.0	17.5	31.5	259.2	301.2	329.3	507.9	753.1
65°	0.0	0.0	3.5	10.5	17.5	42.0	73.6	154.1	220.7	273.2
67.5°	0.0	0.0	3.5	7.0	14.0	21.0	42.0	59.5	94.6	161.1
70°	0.0	0.0	3.5	7.0	10.5	17.5	28.0	42.0	56.0	80.6
72.5°	0.0	0.0	3.5	7.0	7.0	21.0	21.0	31.5	42.0	52.5
75°	0.0	0.0	3.5	3.5	7.0	14.0	21.0	24.5	28.0	42.0
77.5°	0.0	0.0	3.5	7.0	10.5	14.0	17.5	28.0	24.5	24.5
80°	0.0	0.0	3.5	10.5	10.5	17.5	21.0	28.0	17.5	17.5
82.5°	0.0	0.0	3.5	14.0	10.5	35.0	35.0	38.5	14.0	14.0
85°	0.0	0.0	10.5	7.0	21.0	35.0	31.5	21.0	17.5	10.5
87.5°	0.0	0.0	3.5	3.5	7.0	10.5	24.5	21.0	7.0	7.0
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°
10284.4	0°	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4	10284.4
10221.4	2.5°	10361.5	10316.0	10410.5	10400.0	10354.5	10333.5	10309.0	10287.9	10133.8
10228.4	5°	10365.0	10295.0	10410.5	10389.5	10382.5	10347.5	10326.5	10358.0	10217.9
10256.4	7.5°	10365.0	10295.0	10421.1	10428.1	10417.6	10389.5	10386.0	10407.0	10291.5
10305.5	10°	10435.1	10407.0	10512.1	10522.6	10508.6	10501.6	10484.1	10470.1	10347.5
10473.6	12.5°	10582.2	10526.1	10645.2	10676.8	10666.3	10683.8	10641.7	10662.8	10536.7
10645.2	15°	10760.8	10764.3	10855.4	10925.5	10918.5	10974.5	10911.5	10967.5	10876.4
10841.4	17.5°	11034.1	11072.6	11202.2	11307.3	11345.8	11387.9	11345.8	11363.3	11233.7
10624.2	20°	10746.8	10890.4	11514.0	11706.6	11787.2	11825.7	11755.7	11776.7	11647.1
10358.0	22.5°	10487.6	10673.3	11226.7	11829.2	12077.9	12155.0	12130.5	12127.0	12077.9
9832.6	25°	10105.8	10480.6	10729.3	11366.8	12148.0	12288.1	12302.1	12298.6	12225.0
9510.3	27.5°	9636.4	9720.5	10365.0	10753.8	11657.6	12190.0	12169.0	12067.4	11969.3
8841.3	30°	9037.4	9419.2	9710.0	10330.0	11023.6	11888.8	11888.8	11811.7	11710.1
8603.1	32.5°	8732.7	9226.6	9496.3	9720.5	10312.5	11552.5	11692.6	11612.0	11531.5
8417.4	35°	8571.5	8645.1	9275.6	9478.8	9979.7	10904.5	11471.9	11391.4	11331.8
7923.5	37.5°	8217.7	8389.4	8683.6	9226.6	9380.7	10375.5	11177.7	11135.6	11065.6
7282.5	40°	7429.6	7888.5	8340.3	8855.3	9016.4	9696.0	10820.4	10837.9	10743.3
6599.4	42.5°	6963.7	7275.5	7983.1	8329.8	8764.2	9258.1	10473.6	10501.6	10435.1
6252.6	45°	6417.3	6764.1	7261.5	7892.0	8484.0	8655.6	9860.6	10154.8	10098.8
5562.6	47.5°	5916.4	6196.6	6806.1	7443.6	8098.6	8074.1	9156.5	9710.0	9632.9
5033.6	50°	5205.3	5695.7	5982.9	6567.9	7545.2	7611.8	8406.9	9188.0	9125.0
4277.0	52.5°	4389.1	5005.6	5555.6	6091.5	6984.7	7142.4	7709.8	8655.6	8613.6
3268.2	55°	3835.6	4284.0	4904.0	5334.9	6305.2	6725.5	7187.9	8147.7	8126.7
2686.7	57.5°	2728.7	3594.0	4105.4	4707.9	5219.3	5979.4	6322.7	7114.3	6918.2
1488.7	60°	1849.5	2255.9	2879.4	3527.4	3870.7	4630.8	4949.6	5583.6	5531.0
889.7	62.5°	977.3	1352.1	1797.0	2122.7	2371.4	3110.6	3243.7	3926.7	3909.2
357.3	65°	430.9	571.0	973.8	1141.9	1397.6	1740.9	1856.5	2101.7	2042.2
175.1	67.5°	224.2	339.8	550.0	676.1	851.2	980.8	1075.4	1152.4	1201.5
115.6	70°	136.6	248.7	339.8	469.4	585.0	690.1	763.6	868.7	931.8
59.5	72.5°	101.6	157.6	234.7	360.8	423.8	546.4	620.0	697.1	753.1
49.0	75°	56.0	105.1	189.2	283.7	339.8	444.9	511.4	564.0	581.5
28.0	77.5°	35.0	80.6	157.6	220.7	266.2	360.8	343.3	392.3	434.4
21.0	80°	24.5	59.5	122.6	182.1	185.7	231.2	273.2	315.3	343.3
14.0	82.5°	17.5	49.0	91.1	140.1	122.6	178.6	213.7	245.2	178.6
10.5	85°	14.0	35.0	45.5	84.1	70.1	126.1	108.6	105.1	70.1
7.0	87.5°	10.5	17.5	31.5	38.5	28.0	28.0	35.0	42.0	35.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



<u>180°</u>
10284.4
10028.7
10098.8
10158.3
10245.9
10424.6
10725.8
11121.6
11556.0
11920.3
<i>12112.9</i>
11892.3
11671.6
11464.9
11247.7
10995.5
10722.3
10428.1
10105.8
9689.0
9135.5
8641.6
8151.2
6897.2
5534.5
3912.7
2017.7
1201.5
935.3
763.6
571.0
441.4
346.8
129.6
70.1
35.0
0.0

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