

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: P638415

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

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638415
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-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24902.2 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

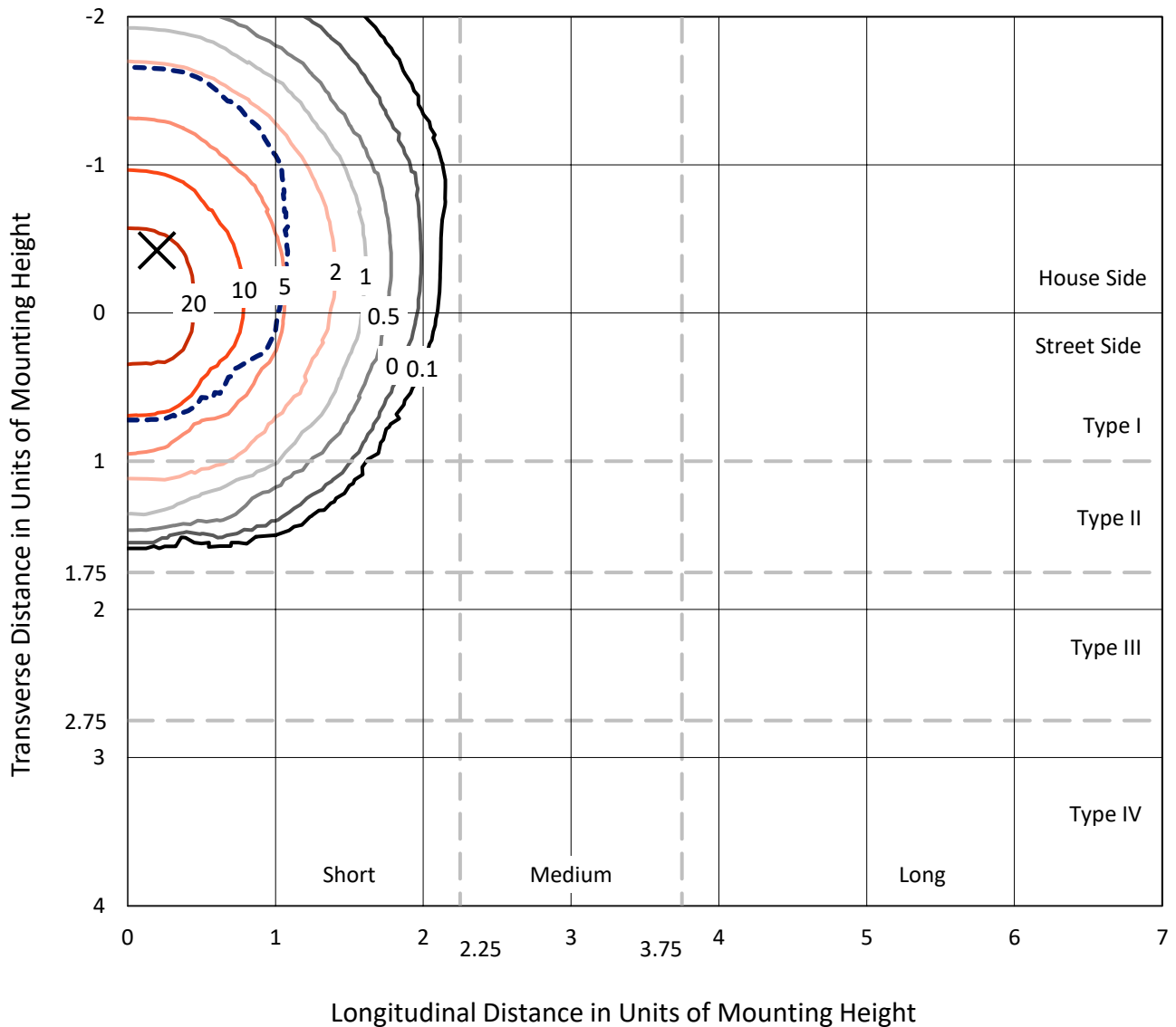
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638415
 CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

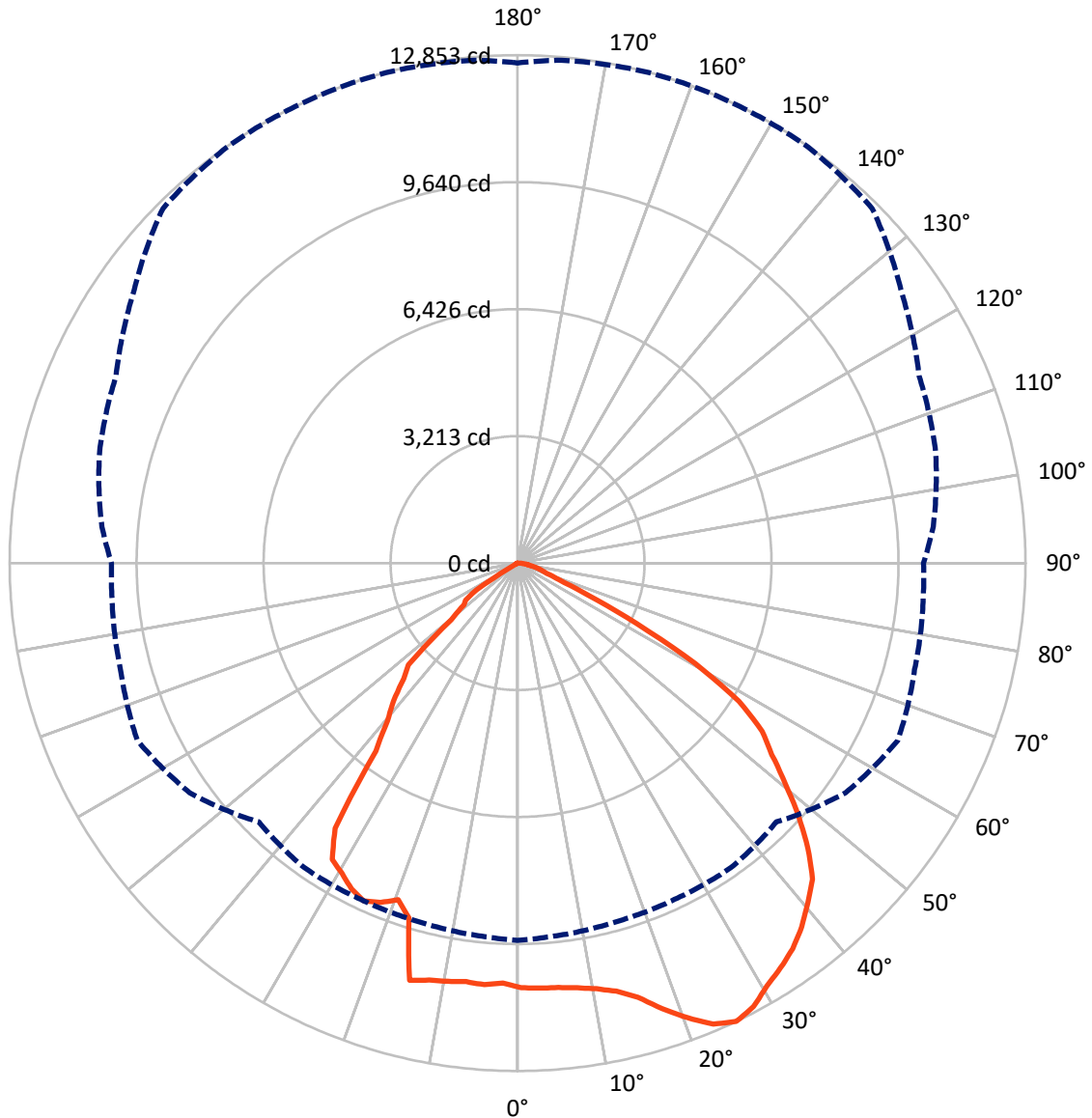
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638415
CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM-VI

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	15417.0	0.0	15417.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9485.2	0.0	9485.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	24902.2	0.0	24902.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.8	4.1
10°-20°	3147.6	12.6
20°-30°	4976.1	20.0
30°-40°	5621.0	22.6
40°-50°	5264.2	21.1
50°-60°	3629.3	14.6
60°-70°	975.1	3.9
70°-80°	203.2	0.8
80°-90°	55.0	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°	24902.2	100.0
0°-180°	24902.2	100.0



REPORT NUMBER: P638415

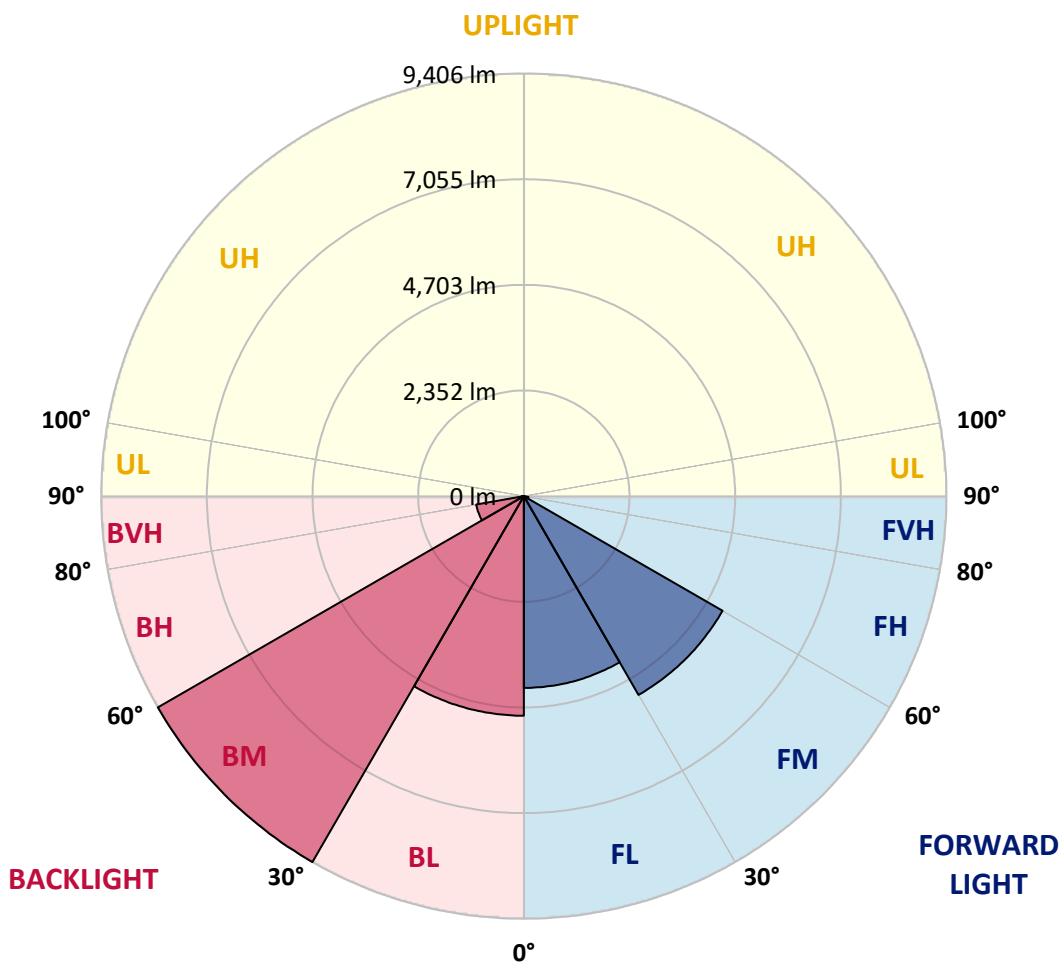
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4267.4	17.1			
FM (30°-60°)	5108.0	20.5			
FH (60°-80°)	102.4	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	4887.1	19.6	B4/5000		
BM (30°-60°)	9406.4	37.8	B5		
BH (60°-80°)	1075.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.6	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





REPORT NUMBER: P638415
 CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9
2.5°	10792.4	10722.9	10657.0	10635.1	10726.6	10825.4	10763.2	10766.8	10744.9	10785.1
5°	10872.9	10777.8	10733.9	10700.9	10715.6	10818.1	10730.2	10763.2	10726.6	10774.1
7.5°	10843.7	10777.8	10733.9	10671.7	10719.2	10840.0	10755.8	10759.5	10741.2	10785.1
10°	10825.4	10777.8	10722.9	10730.2	10785.1	10887.6	10821.7	10858.3	10832.7	10858.3
12.5°	10869.3	10818.1	10788.8	10788.8	10836.3	10953.5	10920.5	10953.5	10942.5	10964.4
15°	10455.7	10503.3	10781.5	10905.9	11001.0	11118.1	11103.5	11136.4	11143.8	11176.7
17.5°	8819.9	8772.3	8750.3	9390.8	11092.5	11454.8	11443.9	11440.2	11403.6	11378.0
20°	9035.8	9017.5	8991.9	9039.4	9229.7	11630.5	11703.7	11253.6	11121.8	11110.8
22.5°	9379.8	9350.5	9255.4	9259.0	9317.6	10111.7	11341.4	10931.5	10887.6	10862.0
25°	9548.1	9489.6	9412.7	9390.8	9409.1	9262.7	10130.0	10616.8	10400.8	10302.0
27.5°	9251.7	9255.4	9193.1	9251.7	9182.2	8523.4	8153.8	10001.9	9994.6	9950.7
30°	9028.5	9017.5	8944.3	9017.5	8538.1	7802.5	7645.1	9328.6	9251.7	9193.1
32.5°	8344.1	8351.4	8563.7	8849.1	8062.3	7480.4	7004.7	8333.1	9061.4	9028.5
35°	5969.0	5983.6	6737.5	8146.5	7341.3	6840.0	6803.4	7202.3	8761.3	8775.9
37.5°	5745.7	5745.7	5727.4	5958.0	6774.1	6580.1	6653.3	6613.1	8025.7	8062.3
40°	5584.7	5551.8	5526.1	5163.8	4710.0	6397.1	6448.4	6265.4	7586.5	7593.9
42.5°	5390.7	5354.1	5361.4	4691.7	4216.0	5943.3	5800.6	5555.4	6854.6	6861.9
45°	5035.7	5098.0	5141.9	4106.2	4069.6	4245.2	5350.5	5196.8	6360.5	6496.0
47.5°	2561.8	2616.7	4014.7	3776.8	3861.0	3773.1	4519.7	4523.4	5291.9	5742.1
50°	2323.9	2309.3	2312.9	2203.1	3564.5	3052.2	3268.1	4146.4	4237.9	4882.0
52.5°	2166.5	2162.9	1939.6	1723.7	2239.7	2686.2	2371.5	3000.9	3151.0	4135.5
55°	1602.9	1720.1	1529.8	1621.2	1401.7	2151.9	2140.9	2708.2	2759.4	3315.7
57.5°	14.6	18.3	43.9	1233.3	969.8	1075.9	1478.5	1848.1	1939.6	2583.7
60°	3.7	7.3	18.3	36.6	629.5	662.4	988.1	1068.6	1204.0	1540.7
62.5°	0.0	0.0	7.3	18.3	32.9	270.8	314.7	344.0	530.7	786.8
65°	0.0	0.0	3.7	11.0	18.3	43.9	76.9	161.0	230.6	285.5
67.5°	0.0	0.0	3.7	7.3	14.6	22.0	43.9	62.2	98.8	168.3
70°	0.0	0.0	3.7	7.3	11.0	18.3	29.3	43.9	58.6	84.2
72.5°	0.0	0.0	3.7	7.3	7.3	22.0	22.0	32.9	43.9	54.9
75°	0.0	0.0	3.7	3.7	7.3	14.6	22.0	25.6	29.3	43.9
77.5°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	29.3	25.6	25.6
80°	0.0	0.0	3.7	11.0	11.0	18.3	22.0	29.3	18.3	18.3
82.5°	0.0	0.0	3.7	14.6	11.0	36.6	36.6	40.3	14.6	14.6
85°	0.0	0.0	11.0	7.3	22.0	36.6	32.9	22.0	18.3	11.0
87.5°	0.0	0.0	3.7	3.7	7.3	11.0	25.6	22.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638415

CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
10744.9	0°	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9	10744.9
10679.0	2.5°	10825.4	10777.8	10876.6	10865.6	10818.1	10796.1	10770.5	10748.5	10587.5
10686.3	5°	10829.0	10755.8	10876.6	10854.6	10847.3	10810.7	10788.8	10821.7	10675.3
10715.6	7.5°	10829.0	10755.8	10887.6	10894.9	10883.9	10854.6	10851.0	10872.9	10752.2
10766.8	10°	10902.2	10872.9	10982.7	10993.7	10979.1	10971.8	10953.5	10938.8	10810.7
10942.5	12.5°	11055.9	10997.4	11121.8	11154.7	11143.8	11162.1	11118.1	11140.1	11008.4
11121.8	15°	11242.6	11246.2	11341.4	11414.6	11407.3	11465.8	11399.9	11458.5	11363.3
11326.7	17.5°	11528.0	11568.3	11703.7	11813.5	11853.7	11897.7	11853.7	11872.0	11736.6
11099.8	20°	11227.9	11378.0	12029.4	12230.7	12314.9	12355.1	12281.9	12303.9	12168.5
10821.7	22.5°	10957.1	11151.1	11729.3	12358.8	12618.6	12699.1	12673.5	12669.9	12618.6
10272.8	25°	10558.2	10949.8	11209.6	11875.7	12691.8	12838.2	12852.8	12849.2	12772.3
9936.1	27.5°	10067.8	10155.6	10829.0	11235.3	12179.5	12735.7	12713.8	12607.6	12505.2
9237.1	30°	9442.0	9840.9	10144.7	10792.4	11517.1	12421.0	12421.0	12340.5	12234.4
8988.2	32.5°	9123.6	9639.6	9921.4	10155.6	10774.1	12069.7	12216.1	12131.9	12047.7
8794.2	35°	8955.3	9032.1	9690.9	9903.1	10426.5	11392.6	11985.5	11901.3	11839.1
8278.2	37.5°	8585.6	8765.0	9072.4	9639.6	9800.7	10840.0	11678.1	11634.2	11561.0
7608.5	40°	7762.2	8241.6	8713.7	9251.7	9420.0	10130.0	11304.8	11323.1	11224.3
6894.9	42.5°	7275.5	7601.2	8340.4	8702.7	9156.6	9672.6	10942.5	10971.8	10902.2
6532.6	45°	6704.6	7066.9	7586.5	8245.3	8863.8	9043.1	10302.0	10609.4	10550.9
5811.6	47.5°	6181.2	6474.0	7110.8	7776.8	8461.2	8435.6	9566.4	10144.7	10064.2
5259.0	50°	5438.3	5950.7	6250.8	6861.9	7883.0	7952.5	8783.3	9599.4	9533.5
4468.5	52.5°	4585.6	5229.7	5804.3	6364.2	7297.4	7462.1	8055.0	9043.1	8999.2
3414.5	55°	4007.4	4475.8	5123.6	5573.7	6587.4	7026.6	7509.7	8512.4	8490.5
2807.0	57.5°	2850.9	3754.8	4289.2	4918.6	5452.9	6247.1	6605.7	7432.8	7227.9
1555.4	60°	1932.3	2356.8	3008.3	3685.3	4044.0	4838.1	5171.1	5833.5	5778.7
929.6	62.5°	1021.1	1412.6	1877.4	2217.8	2477.6	3249.8	3388.9	4102.5	4084.2
373.3	65°	450.1	596.5	1017.4	1193.1	1460.2	1818.9	1939.6	2195.8	2133.6
183.0	67.5°	234.2	355.0	574.6	706.3	889.3	1024.7	1123.5	1204.0	1255.3
120.8	70°	142.7	259.8	355.0	490.4	611.2	721.0	797.8	907.6	973.5
62.2	72.5°	106.1	164.7	245.2	376.9	442.8	570.9	647.8	728.3	786.8
51.2	75°	58.6	109.8	197.6	296.4	355.0	464.8	534.3	589.2	607.5
29.3	77.5°	36.6	84.2	164.7	230.6	278.1	376.9	358.6	409.9	453.8
22.0	80°	25.6	62.2	128.1	190.3	194.0	241.5	285.5	329.4	358.6
14.6	82.5°	18.3	51.2	95.2	146.4	128.1	186.6	223.2	256.2	186.6
11.0	85°	14.6	36.6	47.6	87.8	73.2	131.7	113.5	109.8	73.2
7.3	87.5°	11.0	18.3	32.9	40.3	29.3	29.3	36.6	43.9	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10744.9
10477.7
10550.9
10613.1
10704.6
10891.2
11206.0
11619.5
12073.3
12453.9
12655.2
12424.7
12194.1
11978.2
11751.3
11487.8
11202.3
10894.9
10558.2
10122.7
9544.5
9028.5
8516.1
7205.9
5782.3
4087.9
2108.0
1255.3
977.1
797.8
596.5
461.1
362.3
135.4
73.2
36.6
0.0

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