

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: P638125

Luminaire Tested: **IFLD-L-SA8A-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638125
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23993.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

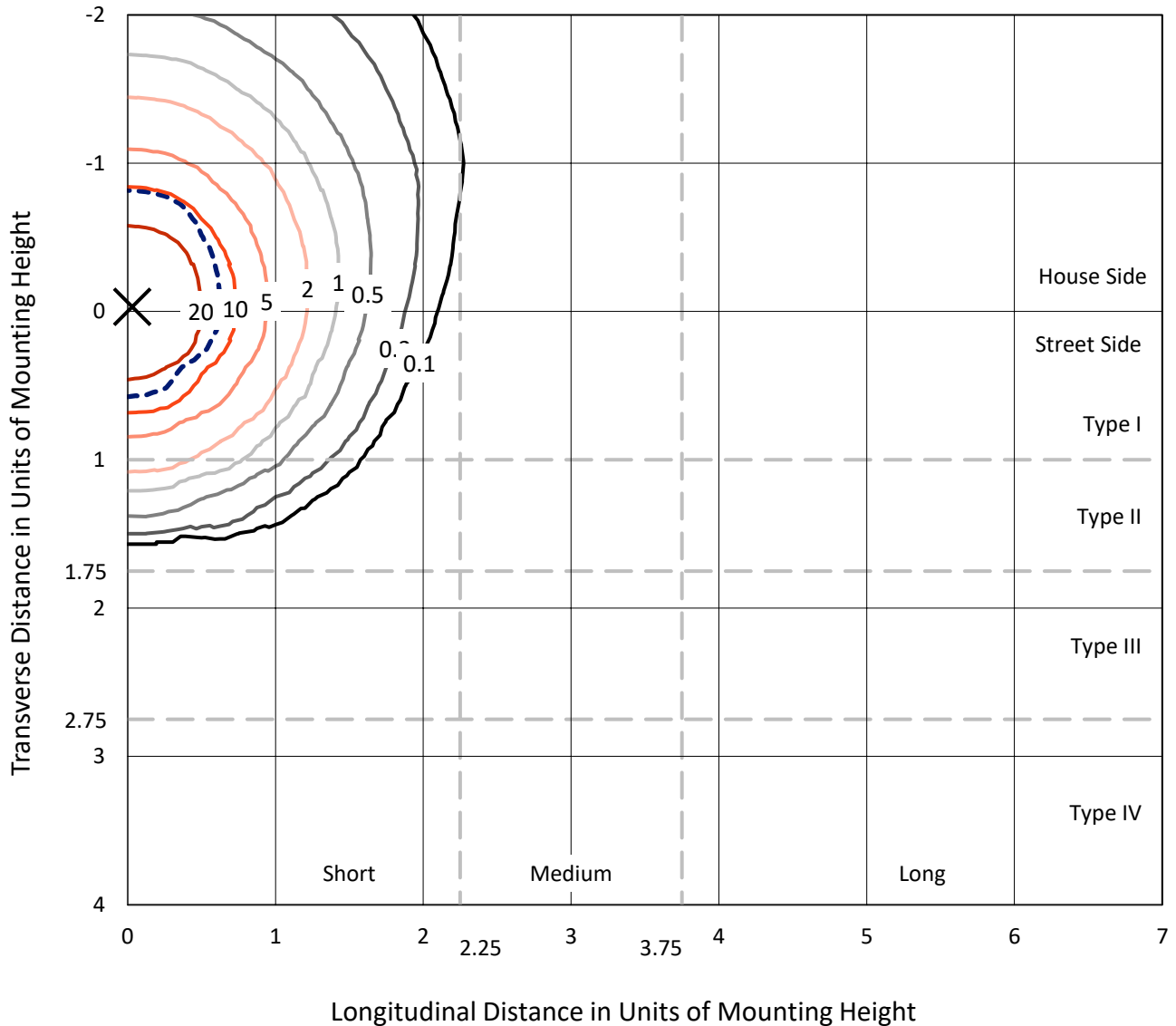
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638125
 CATALOG NUMBER: IFLD-L-SA8A-730-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

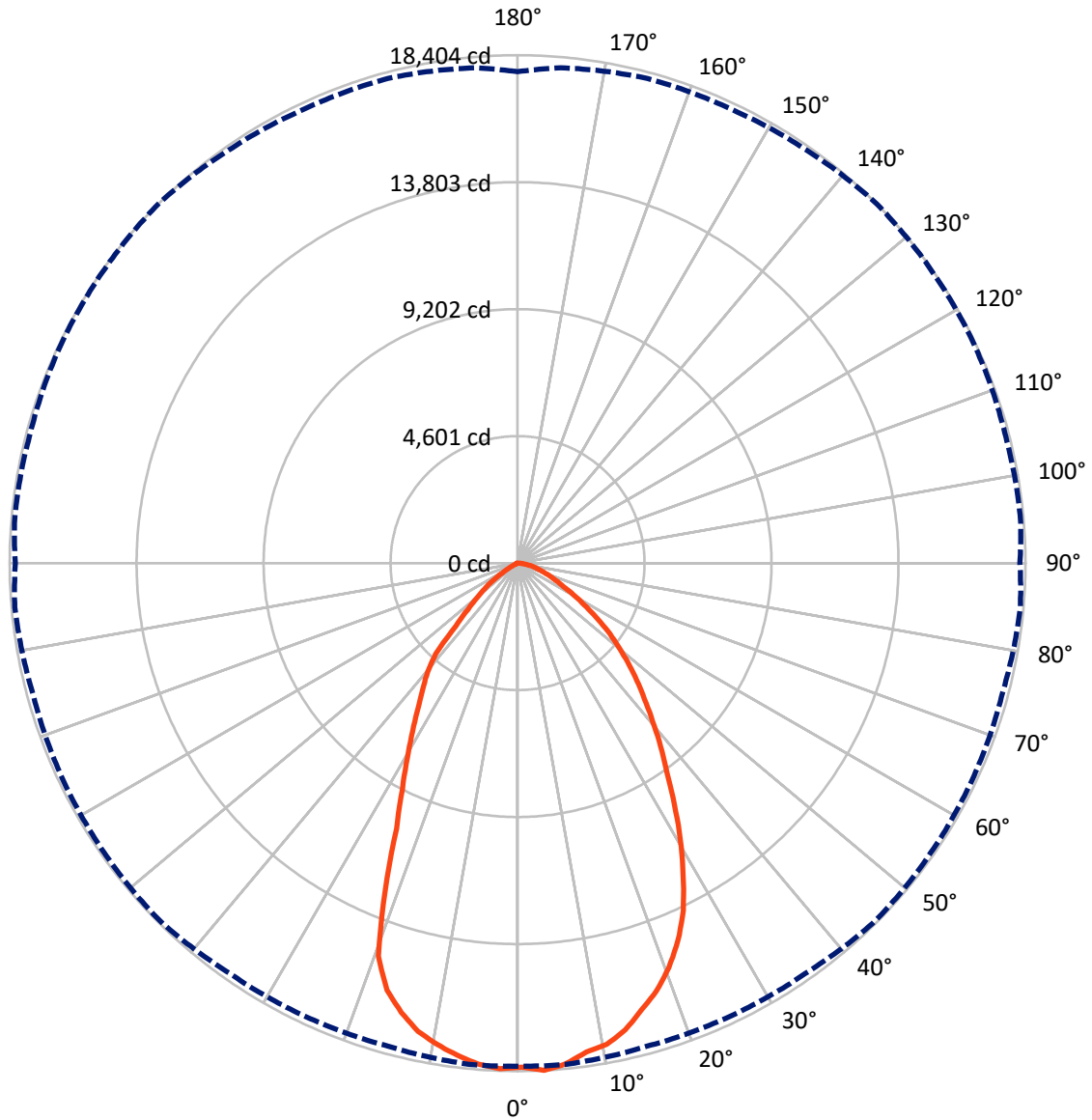
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.6 fc
 Type I - Short - N/A

REPORT NUMBER: P638125
CATALOG NUMBER: IFLD-L-SA8A-730-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638125

CATALOG NUMBER: IFLD-L-SA8A-730-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14210.3	0.0	14210.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9783.4	0.0	9783.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	23993.7	0.0	23993.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1712.4	7.1
10°-20°	4592.0	19.1
20°-30°	5600.1	23.3
30°-40°	5112.9	21.3
40°-50°	3695.0	15.4
50°-60°	2017.5	8.4
60°-70°	834.2	3.5
70°-80°	337.8	1.4
80°-90°	91.9	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°	23993.7	100.0
0°-180°	23993.7	100.0

Coefficient of Utilization



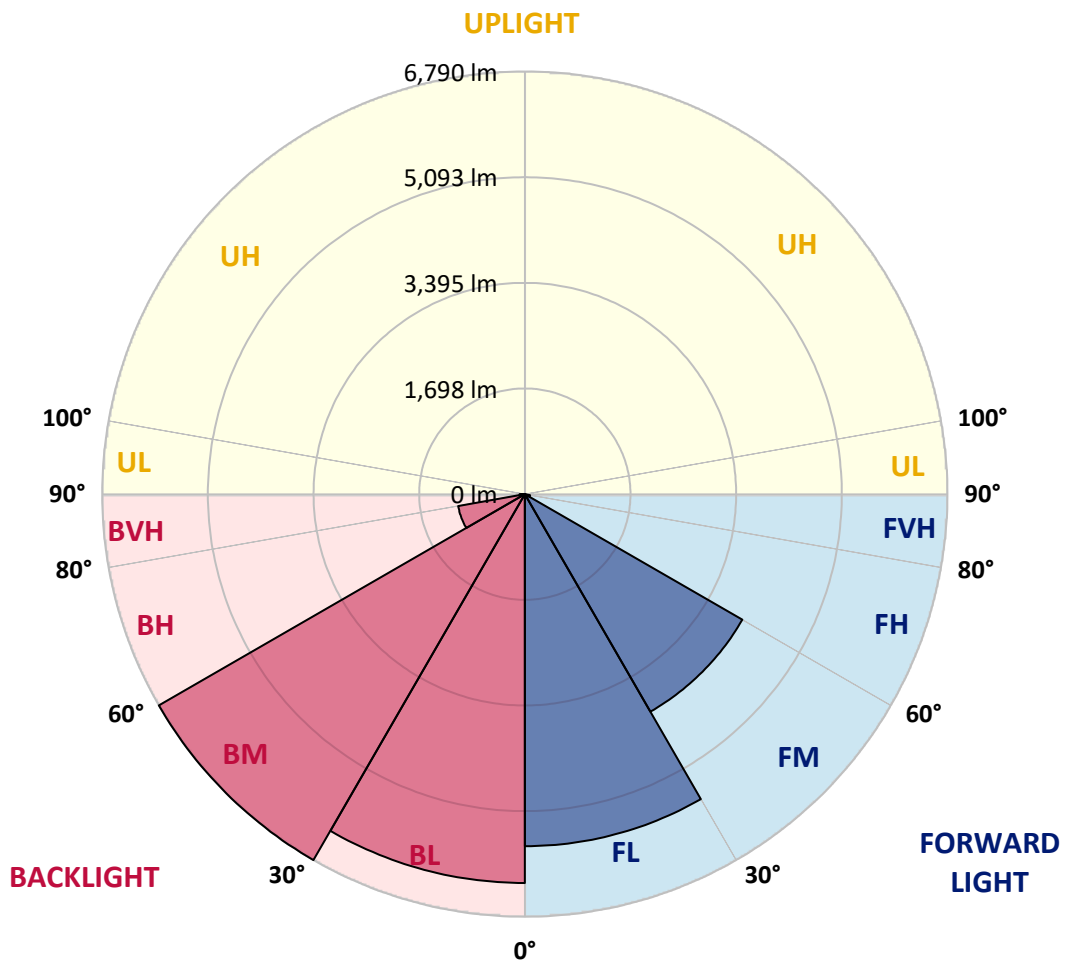
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5656.2	23.6			
FM (30°-60°)	4035.3	16.8			
FH (60°-80°)	84.6	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	6248.3	26.0	B5		
BM (30°-60°)	6790.0	28.3	B4/8500		
BH (60°-80°)	1087.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	84.5	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





REPORT NUMBER: P638125
 CATALOG NUMBER: IFLD-L-SA8A-730-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2
2.5°	18225.4	18249.0	18120.6	18134.1	18157.8	18330.1	18286.2	18245.6	18188.2	18286.2
5°	18201.7	18215.2	18080.1	18032.8	18053.0	18208.5	18066.6	18066.6	18053.0	18036.1
7.5°	18019.3	18026.0	17921.3	17836.8	17890.9	17961.8	17857.1	17907.8	17833.4	17890.9
10°	17745.6	17701.6	17576.6	17553.0	17613.8	17681.4	17610.4	17657.7	17590.1	17634.1
12.5°	17343.5	17275.9	17174.6	17144.1	17248.9	17340.1	17282.7	17255.6	17167.8	17275.9
15°	15792.6	15741.9	15971.7	16373.8	16735.3	16813.0	16752.2	16779.2	16596.8	16627.2
17.5°	12998.3	12903.7	13150.4	14103.2	15461.5	16177.8	16123.7	15948.0	15677.7	15738.6
20°	11812.4	11785.3	11758.3	11984.7	12934.1	15106.7	15181.0	14735.0	14349.9	14265.4
22.5°	11143.4	11133.2	11106.2	11156.9	11406.9	12802.4	13653.8	13241.6	12984.8	12961.2
25°	10531.8	10514.9	10433.8	10498.0	10498.0	10579.1	11670.4	11920.5	11694.1	11667.1
27.5°	9910.1	9879.7	9866.2	9896.6	9741.1	9193.8	9470.8	10690.6	10572.3	10579.1
30°	9237.7	9227.6	9190.4	9254.6	8774.8	8095.7	7920.0	9575.6	9599.2	9592.5
32.5°	8237.6	8281.5	8450.4	8521.4	7730.7	7169.9	6875.9	8284.9	8768.0	8757.9
35°	5983.9	5983.9	6534.6	7558.4	6774.5	6352.2	6193.4	7024.6	7947.0	7980.8
37.5°	4919.6	4936.5	5044.6	5510.9	5845.4	5696.7	5649.4	5912.9	6892.8	6946.9
40°	4426.3	4426.3	4426.3	4233.7	4223.5	5132.4	5105.4	5020.9	5953.5	6071.7
42.5°	3976.9	3987.0	3993.8	3507.2	3236.9	4436.4	4375.6	4247.2	5112.2	5250.7
45°	3514.0	3530.9	3551.1	2932.8	2814.6	3193.0	3703.2	3561.3	4281.0	4460.0
47.5°	2145.6	2172.6	2632.1	2486.8	2500.3	2463.2	3020.7	2997.0	3510.6	3764.0
50°	1449.5	1459.7	1503.6	1577.9	2145.6	1936.1	2138.8	2480.1	2665.9	3051.1
52.5°	1216.4	1233.3	1125.1	1023.8	1409.0	1513.7	1493.4	1841.5	1915.8	2392.2
55°	854.8	908.9	858.2	848.1	800.8	1175.8	1131.9	1415.7	1463.0	1817.8
57.5°	87.8	101.4	175.7	631.8	523.7	665.6	807.5	1037.3	1084.6	1341.4
60°	6.8	6.8	16.9	87.8	381.8	398.7	557.5	638.6	729.8	935.9
62.5°	0.0	3.4	6.8	13.5	60.8	212.9	280.4	334.5	439.2	604.8
65°	0.0	0.0	3.4	10.1	13.5	81.1	108.1	175.7	239.9	375.0
67.5°	0.0	0.0	3.4	6.8	10.1	20.3	37.2	64.2	128.4	212.9
70°	0.0	0.0	3.4	6.8	10.1	16.9	27.0	40.5	57.4	114.9
72.5°	0.0	0.0	3.4	3.4	6.8	16.9	20.3	27.0	40.5	57.4
75°	0.0	0.0	3.4	3.4	10.1	20.3	16.9	20.3	27.0	37.2
77.5°	0.0	0.0	3.4	6.8	10.1	20.3	16.9	20.3	20.3	23.7
80°	0.0	0.0	3.4	6.8	13.5	23.7	20.3	20.3	16.9	16.9
82.5°	0.0	0.0	3.4	10.1	13.5	30.4	30.4	27.0	13.5	10.1
85°	0.0	0.0	6.8	13.5	20.3	33.8	33.8	27.0	10.1	6.8
87.5°	0.0	0.0	6.8	10.1	16.9	23.7	33.8	27.0	10.1	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638125
 CATALOG NUMBER: IFLD-L-SA8A-730-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18259.2	0°	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2	18259.2
18201.7	2.5°	18292.9	18272.7	18340.2	18367.3	18404.4	18262.5	18174.7	18178.1	18015.9
17995.6	5°	18103.7	18107.1	18195.0	18188.2	18225.4	18147.7	18113.9	18056.4	17914.5
17735.4	7.5°	17863.8	17833.4	17917.9	17982.1	17887.5	17941.5	17863.8	17890.9	17806.4
17505.7	10°	17678.0	17607.0	17684.8	17728.7	17732.1	17678.0	17603.7	17532.7	17502.3
17147.5	12.5°	17265.8	17174.6	17306.3	17367.1	17357.0	17252.3	17167.8	17184.7	17086.7
16519.1	15°	16698.1	16701.5	16796.1	16853.6	16799.5	16775.8	16782.6	16742.1	16657.6
15650.7	17.5°	15829.8	15880.5	16130.5	16269.0	16299.4	16252.1	16228.5	16181.2	16096.7
14265.4	20°	14383.6	14687.7	15133.7	15562.9	15647.3	15633.8	15549.3	15529.1	15481.8
12893.6	22.5°	13113.2	13339.6	13856.5	14525.6	14870.2	14904.0	14802.6	14772.2	14721.5
11667.1	25°	11798.8	12042.1	12508.4	13234.8	13947.8	14093.1	14076.2	13984.9	13930.9
10579.1	27.5°	10690.6	10933.9	11356.2	12011.7	12775.3	13241.6	13285.5	13140.2	13136.9
9609.4	30°	9690.5	10025.0	10346.0	10879.8	11619.8	12319.2	12393.5	12292.2	12302.3
8720.7	32.5°	8906.6	9183.6	9457.3	9815.5	10430.4	11244.7	11535.3	11440.7	11403.5
7980.8	35°	8105.8	8295.0	8575.4	8903.2	9322.2	10129.7	10633.2	10562.2	10525.0
6980.6	37.5°	7193.5	7517.9	7720.6	8088.9	8416.6	9058.6	9768.2	9758.0	9680.3
6129.2	40°	6257.6	6598.8	6906.3	7278.0	7531.4	8041.6	8828.9	8825.5	8835.6
5247.3	42.5°	5409.5	5723.7	6095.4	6500.9	6744.1	7115.8	7960.5	8007.8	8065.2
4520.9	45°	4642.5	4926.3	5271.0	5764.3	6058.2	6271.1	7021.2	7237.4	7234.1
3872.1	47.5°	3953.2	4220.1	4510.7	4990.5	5365.6	5558.2	6179.9	6487.3	6467.1
3176.1	50°	3318.0	3554.5	3858.6	4206.6	4710.1	4879.0	5341.9	5747.4	5717.0
2530.7	52.5°	2669.3	2997.0	3253.8	3571.4	4101.9	4267.5	4625.6	5020.9	4997.3
1898.9	55°	2081.4	2399.0	2709.8	2983.5	3429.5	3676.2	3932.9	4338.4	4331.6
1486.7	57.5°	1574.5	1922.5	2216.5	2476.7	2831.5	3135.5	3341.7	3709.9	3757.2
1017.0	60°	1165.7	1432.6	1750.2	2040.8	2321.3	2635.5	2774.0	3135.5	3155.8
696.0	62.5°	794.0	1088.0	1398.8	1662.4	1871.9	2196.2	2321.3	2618.6	2655.8
446.0	65°	550.7	740.0	1094.7	1284.0	1540.7	1817.8	1942.8	2179.3	2253.7
256.8	67.5°	364.9	527.1	854.8	1027.2	1280.6	1469.8	1628.6	1821.2	1902.3
162.2	70°	199.4	388.6	611.6	810.9	1030.5	1213.0	1368.4	1523.8	1594.8
74.3	72.5°	135.2	260.2	425.7	642.0	831.2	1010.3	1148.8	1263.7	1267.1
43.9	75°	67.6	175.7	324.4	496.7	648.7	824.4	949.4	1017.0	935.9
27.0	77.5°	40.5	128.4	263.5	398.7	527.1	665.6	736.6	773.8	642.0
20.3	80°	23.7	91.2	206.1	317.6	364.9	489.9	557.5	567.6	429.1
13.5	82.5°	16.9	67.6	162.2	233.1	223.0	344.6	419.0	405.5	273.7
10.1	85°	10.1	47.3	101.4	145.3	135.2	226.4	243.3	250.0	158.8
6.8	87.5°	6.8	27.0	54.1	77.7	64.2	98.0	98.0	118.3	77.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18259.2
17806.4
17880.7
17664.5
17367.1
17002.2
16573.1
16059.5
15373.6
14708.0
13873.4
13130.1
12251.6
11406.9
10474.3
9744.5
8835.6
8034.8
7240.8
6473.8
5744.0
5048.0
4348.5
3737.0
3186.2
2662.5
2236.8
1892.1
1567.8
1236.6
875.1
618.3
402.1
253.4
145.3
67.6
0.0

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