

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: P638300

Luminaire Tested: **IFLD-L-SA8B-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638300
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-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24874.8 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

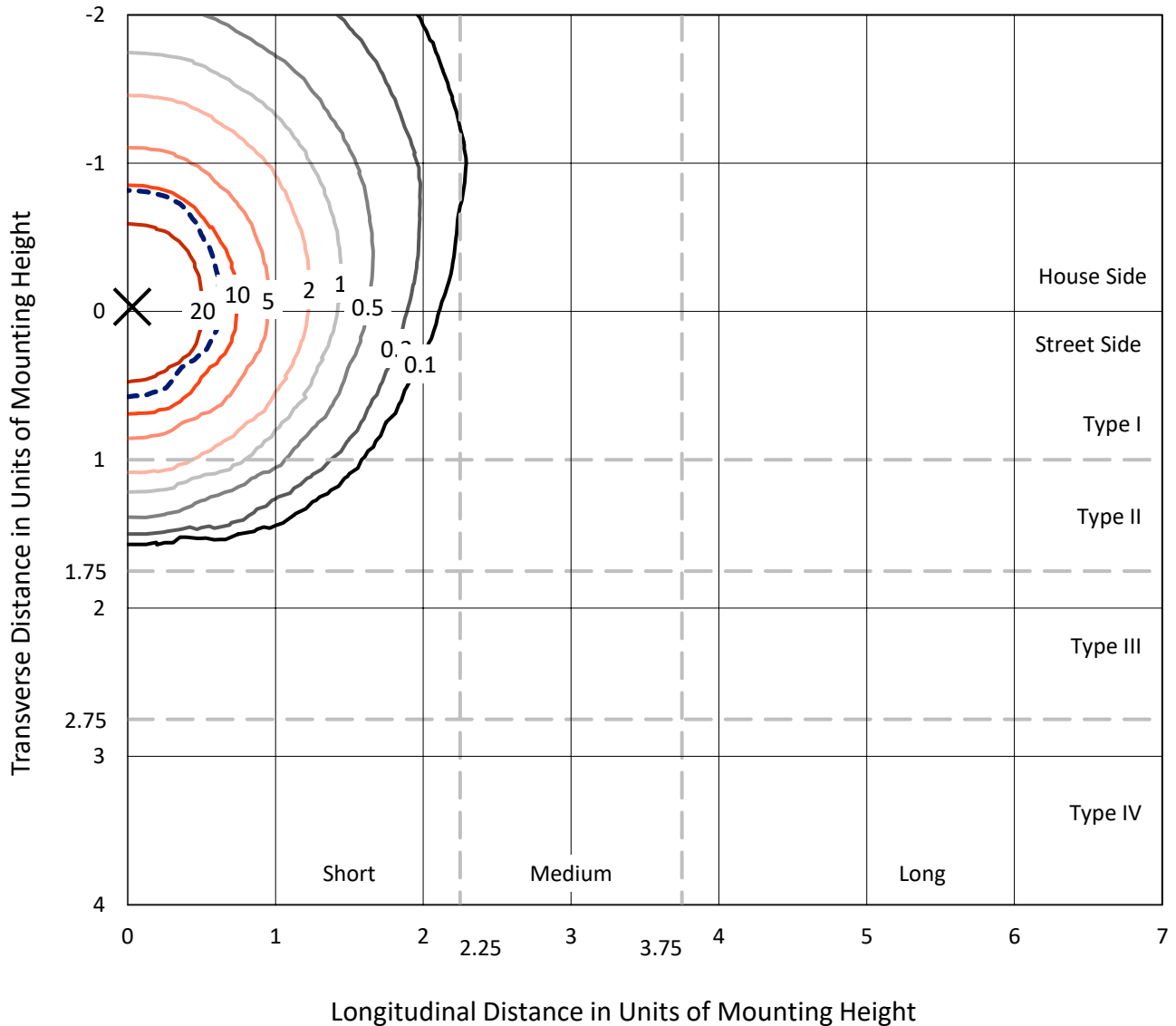
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

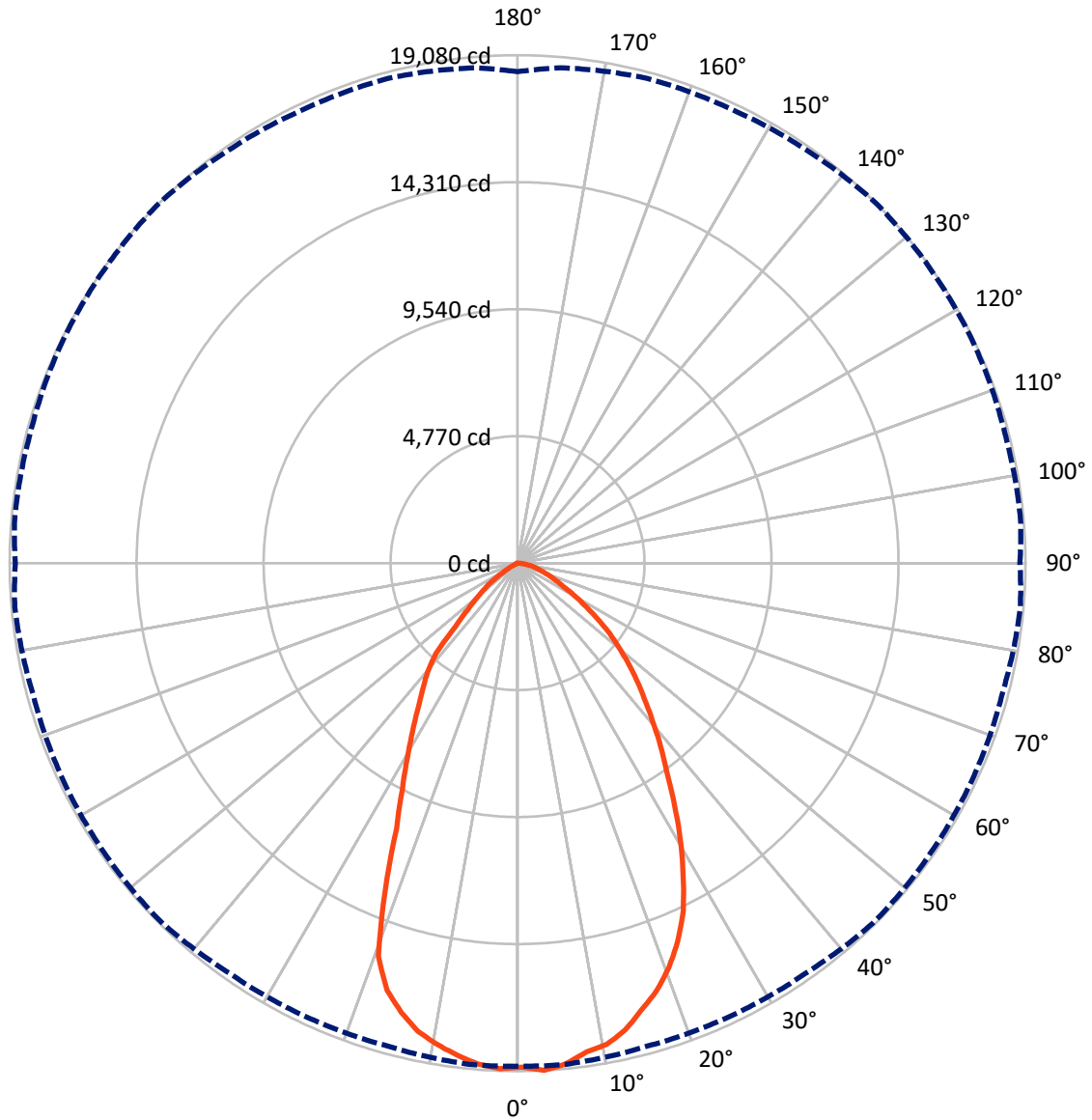
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.3 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	14732.1	0.0	14732.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10142.7	0.0	10142.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	24874.8	0.0	24874.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1775.3	7.1
10°-20°	4760.6	19.1
20°-30°	5805.8	23.3
30°-40°	5300.6	21.3
40°-50°	3830.6	15.4
50°-60°	2091.6	8.4
60°-70°	864.8	3.5
70°-80°	350.2	1.4
80°-90°	95.3	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°	24874.8	100.0
0°-180°	24874.8	100.0



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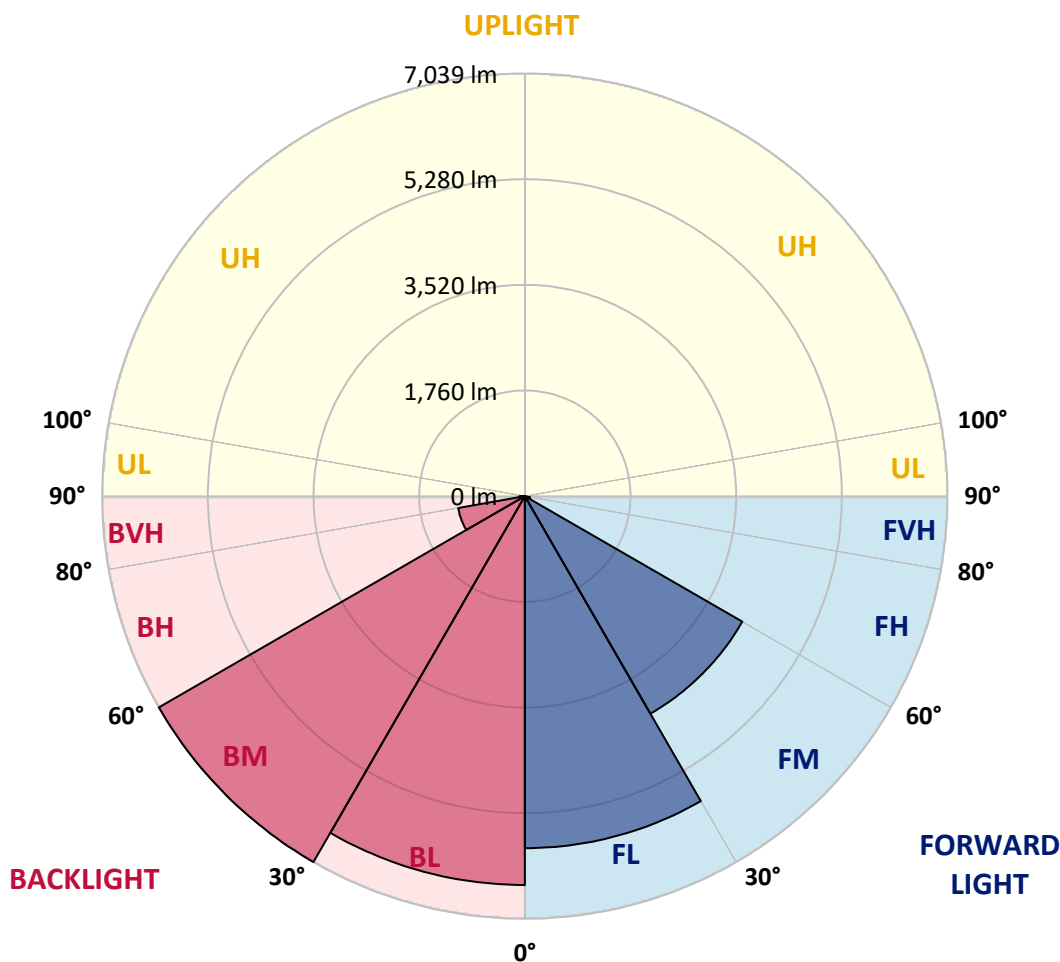
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5863.9	23.6			
FM (30°-60°)	4183.5	16.8			
FH (60°-80°)	87.6	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6477.8	26.0	B5		
BM (30°-60°)	7039.4	28.3	B4/8500		
BH (60°-80°)	1127.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	87.6	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°	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6
2.5°	18894.6	18919.1	18786.0	18800.0	18824.5	19003.2	18957.7	18915.6	18856.1	18957.7
5°	18870.1	18884.1	18744.0	18694.9	18716.0	18877.1	18730.0	18730.0	18716.0	18698.4
7.5°	18680.9	18687.9	18579.3	18491.8	18547.8	18621.4	18512.8	18565.3	18488.3	18547.8
10°	18397.2	18351.7	18222.0	18197.5	18260.6	18330.6	18257.1	18306.1	18236.1	18281.6
12.5°	17980.3	17910.3	17805.2	17773.7	17882.3	17976.8	17917.3	17889.3	17798.2	17910.3
15°	16372.5	16320.0	16558.2	16975.0	17349.8	17430.4	17367.3	17395.4	17206.2	17237.7
17.5°	13475.6	13377.5	13633.3	14621.1	16029.2	16771.9	16715.8	16533.7	16253.4	16316.5
20°	12246.1	12218.1	12190.1	12424.8	13409.1	15661.4	15738.5	15276.1	14876.8	14789.2
22.5°	11552.5	11542.0	11514.0	11566.6	11825.8	13272.5	14155.2	13727.8	13461.6	13437.1
25°	10918.5	10901.0	10816.9	10883.5	10883.5	10967.6	12099.0	12358.2	12123.5	12095.5
27.5°	10274.0	10242.5	10228.4	10260.0	10098.8	9531.4	9818.6	11083.2	10960.6	10967.6
30°	9576.9	9566.4	9527.9	9594.4	9097.0	8392.9	8210.8	9927.2	9951.7	9944.7
32.5°	8540.1	8585.6	8760.7	8834.3	8014.6	7433.1	7128.4	8589.1	9090.0	9079.5
35°	6203.6	6203.6	6774.6	7836.0	7023.3	6585.4	6420.8	7282.5	8238.8	8273.8
37.5°	5100.2	5117.7	5229.8	5713.2	6060.0	5905.9	5856.8	6130.1	7145.9	7201.9
40°	4588.8	4588.8	4588.8	4389.1	4378.6	5320.9	5292.9	5205.3	6172.1	6294.7
42.5°	4122.9	4133.4	4140.4	3636.0	3355.8	4599.3	4536.2	4403.1	5299.9	5443.5
45°	3643.0	3660.5	3681.5	3040.5	2917.9	3310.2	3839.2	3692.0	4438.2	4623.8
47.5°	2224.3	2252.4	2728.8	2578.1	2592.1	2553.6	3131.6	3107.1	3639.5	3902.2
50°	1502.7	1513.2	1558.8	1635.9	2224.3	2007.2	2217.3	2571.1	2763.8	3163.1
52.5°	1261.0	1278.6	1166.5	1061.4	1460.7	1569.3	1548.3	1909.1	1986.1	2480.0
55°	886.2	942.3	889.7	879.2	830.2	1219.0	1173.5	1467.7	1516.8	1884.6
57.5°	91.1	105.1	182.2	655.0	542.9	690.1	837.2	1075.4	1124.4	1390.6
60°	7.0	7.0	17.5	91.1	395.8	413.3	578.0	662.0	756.6	970.3
62.5°	0.0	3.5	7.0	14.0	63.1	220.7	290.7	346.8	455.4	627.0
65°	0.0	0.0	3.5	10.5	14.0	84.1	112.1	182.2	248.7	388.8
67.5°	0.0	0.0	3.5	7.0	10.5	21.0	38.5	66.6	133.1	220.7
70°	0.0	0.0	3.5	7.0	10.5	17.5	28.0	42.0	59.5	119.1
72.5°	0.0	0.0	3.5	3.5	7.0	17.5	21.0	28.0	42.0	59.5
75°	0.0	0.0	3.5	3.5	10.5	21.0	17.5	21.0	28.0	38.5
77.5°	0.0	0.0	3.5	7.0	10.5	21.0	17.5	21.0	21.0	24.5
80°	0.0	0.0	3.5	7.0	14.0	24.5	21.0	21.0	17.5	17.5
82.5°	0.0	0.0	3.5	10.5	14.0	31.5	31.5	28.0	14.0	10.5
85°	0.0	0.0	7.0	14.0	21.0	35.0	35.0	28.0	10.5	7.0
87.5°	0.0	0.0	7.0	10.5	17.5	24.5	35.0	28.0	10.5	3.5
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°
18929.6	0°	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6	18929.6
18870.1	2.5°	18964.7	18943.6	19013.7	19041.7	19080.3	18933.1	18842.1	18845.6	18677.4
18656.4	5°	18768.5	18772.0	18863.1	18856.1	18894.6	18814.0	18779.0	18719.5	18572.3
18386.7	7.5°	18519.8	18488.3	18575.8	18642.4	18544.3	18600.4	18519.8	18547.8	18460.2
18148.5	10°	18327.1	18253.6	18334.1	18379.7	18383.2	18327.1	18250.1	18176.5	18145.0
17777.2	12.5°	17899.8	17805.2	17941.8	18004.9	17994.4	17885.8	17798.2	17815.7	17714.1
17125.6	15°	17311.3	17314.8	17412.9	17472.4	17416.4	17391.9	17398.9	17356.8	17269.3
16225.4	17.5°	16411.1	16463.6	16722.8	16866.4	16898.0	16848.9	16824.4	16775.4	16687.8
14789.2	20°	14911.8	15227.1	15689.5	16134.3	16221.9	16207.9	16120.3	16099.3	16050.3
13367.0	22.5°	13594.7	13829.4	14365.4	15058.9	15416.2	15451.3	15346.2	15314.6	15262.1
12095.5	25°	12232.1	12484.3	12967.7	13720.8	14459.9	14610.6	14593.1	14498.5	14442.4
10967.6	27.5°	11083.2	11335.4	11773.2	12452.8	13244.4	13727.8	13773.4	13622.8	13619.2
9962.2	30°	10046.3	10393.1	10725.9	11279.3	12046.4	12771.5	12848.6	12743.5	12754.0
9041.0	32.5°	9233.6	9520.9	9804.6	10175.9	10813.4	11657.6	11958.9	11860.8	11822.3
8273.8	35°	8403.4	8599.6	8890.3	9230.1	9664.5	10501.7	11023.6	10950.0	10911.5
7237.0	37.5°	7457.7	7793.9	8004.1	8385.9	8725.7	9391.3	10126.9	10116.4	10035.8
6354.2	40°	6487.4	6841.2	7159.9	7545.2	7807.9	8336.9	9153.1	9149.6	9160.1
5440.0	42.5°	5608.1	5933.9	6319.2	6739.6	6991.8	7377.1	8252.8	8301.9	8361.4
4686.9	45°	4813.0	5107.2	5464.5	5975.9	6280.7	6501.4	7279.0	7503.2	7499.7
4014.3	47.5°	4098.4	4375.1	4676.4	5173.8	5562.6	5762.3	6406.8	6725.6	6704.5
3292.7	50°	3439.8	3685.0	4000.3	4361.1	4883.0	5058.2	5538.1	5958.4	5926.9
2623.7	52.5°	2767.3	3107.1	3373.3	3702.6	4252.5	4424.2	4795.5	5205.3	5180.8
1968.6	55°	2157.8	2487.1	2809.3	3093.1	3555.4	3811.1	4077.4	4497.7	4490.7
1541.3	57.5°	1632.3	1993.1	2297.9	2567.6	2935.4	3250.7	3464.4	3846.2	3895.2
1054.4	60°	1208.5	1485.2	1814.5	2115.7	2406.5	2732.3	2875.9	3250.7	3271.7
721.6	62.5°	823.2	1127.9	1450.2	1723.4	1940.6	2276.9	2406.5	2714.7	2753.3
462.4	65°	571.0	767.1	1134.9	1331.1	1597.3	1884.6	2014.2	2259.4	2336.4
266.2	67.5°	378.3	546.5	886.2	1064.9	1327.6	1523.8	1688.4	1888.1	1972.1
168.1	70°	206.7	402.8	634.0	840.7	1068.4	1257.5	1418.7	1579.8	1653.4
77.1	72.5°	140.1	269.7	441.4	665.5	861.7	1047.4	1191.0	1310.1	1313.6
45.5	75°	70.1	182.2	336.3	514.9	672.6	854.7	984.3	1054.4	970.3
28.0	77.5°	42.0	133.1	273.2	413.3	546.5	690.1	763.6	802.2	665.5
21.0	80°	24.5	94.6	213.7	329.3	378.3	507.9	578.0	588.5	444.9
14.0	82.5°	17.5	70.1	168.1	241.7	231.2	357.3	434.4	420.3	283.7
10.5	85°	10.5	49.0	105.1	150.6	140.1	234.7	252.2	259.2	164.6
7.0	87.5°	7.0	28.0	56.0	80.6	66.6	101.6	101.6	122.6	80.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18929.6
18460.2
18537.3
18313.1
18004.9
17626.6
17181.7
16649.3
15938.2
15248.1
14382.9
13612.2
12701.5
11825.8
10859.0
10102.3
9160.1
8329.9
7506.7
6711.5
5954.9
5233.3
4508.2
3874.2
3303.2
2760.3
2318.9
1961.6
1625.3
1282.1
907.2
641.0
416.8
262.7
150.6
70.1
0.0

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