

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: P636640

Luminaire Tested: **IFLD-M-SA4E-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636640
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19140.8 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

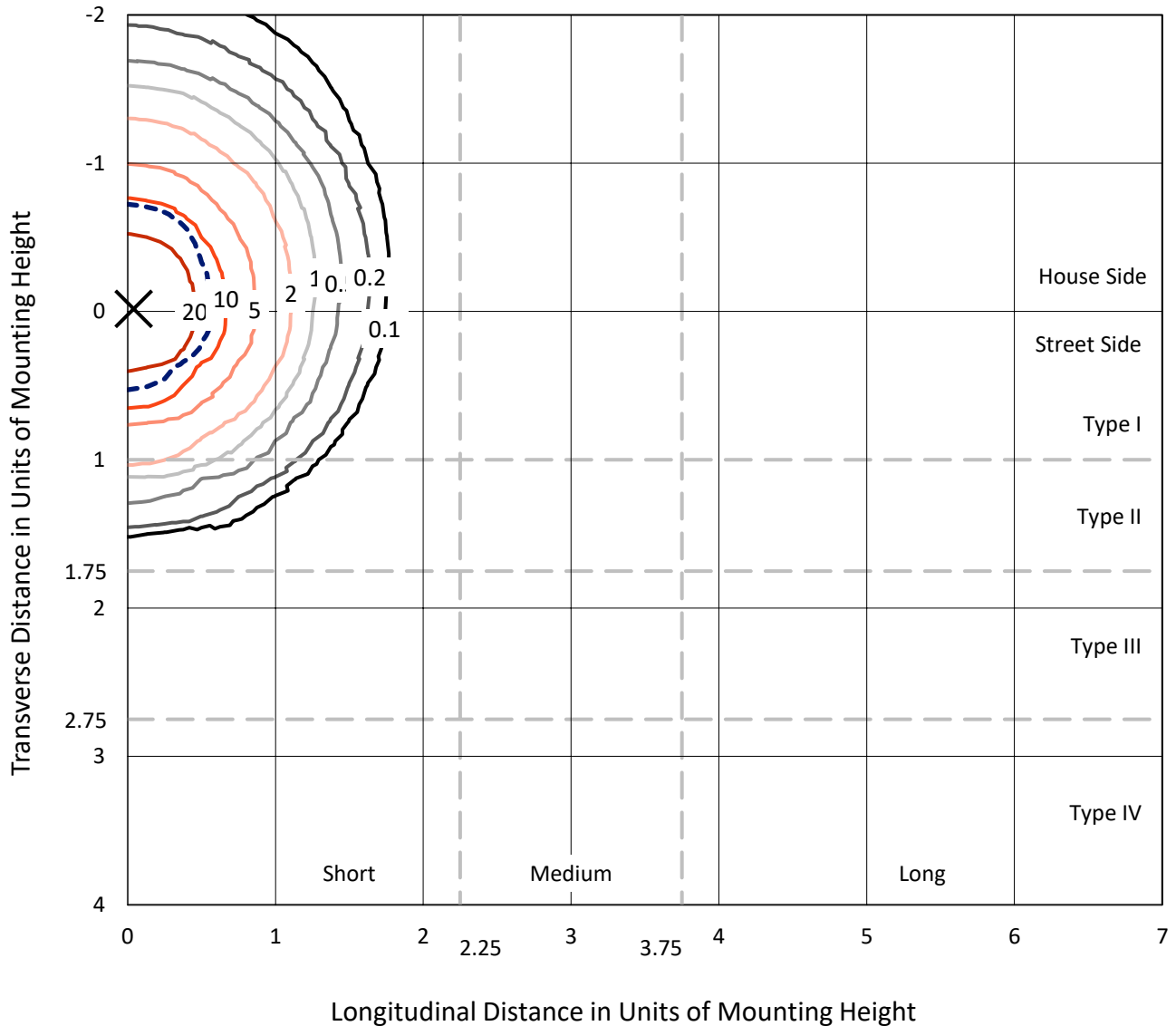
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

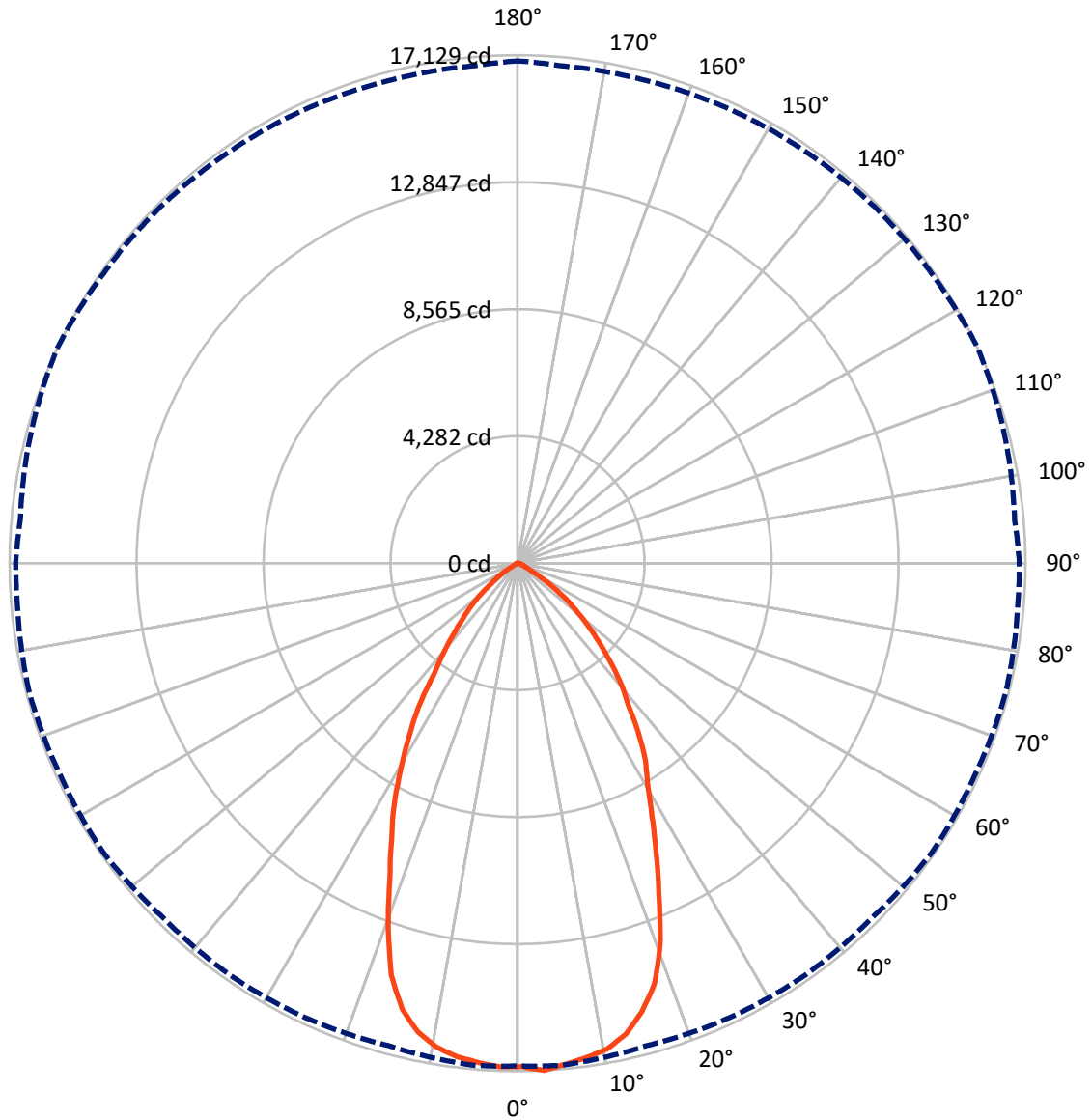
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10954.0	0.0	10954.0
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	8186.8	0.0	8186.8
	% Fixture	42.8	0.0	42.8
Total	Lumens	19140.8	0.0	19140.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1599.6	8.4
10°-20°	4241.2	22.2
20°-30°	4851.1	25.3
30°-40°	4157.2	21.7
40°-50°	2748.9	14.4
50°-60°	1199.5	6.3
60°-70°	235.7	1.2
70°-80°	85.0	0.4
80°-90°	22.6	0.1
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°	19140.8	100.0
0°-180°	19140.8	100.0



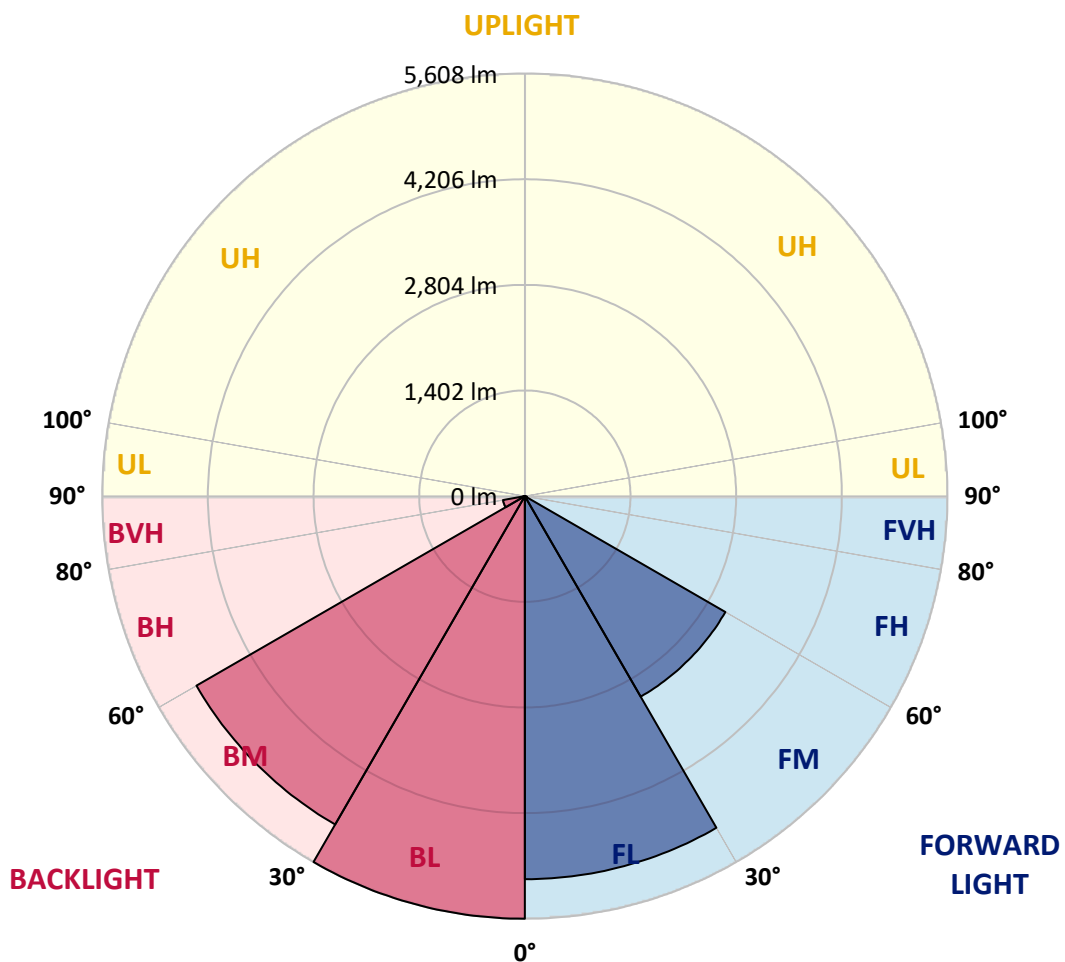
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5083.4	26.6			
FM (30°-60°)	3073.6	16.1			
FH (60°-80°)	26.0	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	5608.4	29.3	B5		
BM (30°-60°)	5032.0	26.3	B4/8500		
BH (60°-80°)	294.7	1.5	B1/500		G1/500
BVH (80°-90°)	18.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7
2.5°	16958.3	16999.0	16844.4	16913.5	16942.0	16905.4	17039.6	16999.0	17031.5	16929.8
5°	16958.3	16999.0	16819.9	16852.5	16860.6	16791.5	16937.9	16889.1	16893.2	16787.4
7.5°	16852.5	16901.3	16738.6	16763.0	16767.0	16710.1	16836.2	16767.0	16742.6	16632.8
10°	16567.7	16596.2	16449.7	16510.7	16567.7	16514.8	16624.6	16547.3	16547.3	16449.7
12.5°	16116.1	16168.9	16006.2	16079.4	16128.3	16067.2	16193.4	16164.9	16168.9	16071.3
15°	15294.2	15111.1	15306.4	15452.9	15456.9	15444.7	15562.7	15534.2	15554.6	15408.1
17.5°	11298.7	11254.0	11481.8	13211.0	14496.7	14671.7	14692.0	14537.4	14468.2	14325.8
20°	10468.7	10501.3	10452.4	10460.6	11473.7	13577.2	13451.1	13068.6	12893.7	12751.3
22.5°	9862.5	9809.6	9777.0	9756.7	9785.2	11156.3	12063.6	11485.9	11392.3	11323.1
25°	9203.4	9179.0	9138.3	9130.1	9113.9	8881.9	10188.0	10240.9	10090.3	10004.9
27.5°	8589.0	8572.7	8528.0	8523.9	8336.7	7775.3	7917.7	9174.9	9134.2	9101.6
30°	7933.9	7901.4	7877.0	7877.0	7311.4	6733.7	6501.8	7999.0	7999.0	7970.6
32.5°	7221.9	7193.4	7201.6	7103.9	6428.5	5899.6	5533.4	6904.6	7331.8	7307.4
35°	4414.5	4406.4	5232.3	6318.7	5525.3	5045.2	5020.8	5907.7	6530.2	6595.3
37.5°	3930.3	3905.9	3918.1	3987.3	4731.9	4540.7	4532.5	4683.1	5557.8	5590.4
40°	3527.5	3511.3	3499.1	3250.9	3014.9	4052.4	4023.9	3926.3	4748.2	4805.1
42.5°	3145.1	3128.8	3128.8	2778.9	2396.5	3332.3	3344.5	3230.5	4003.6	4023.9
45°	2750.4	2738.2	2669.1	2217.4	2107.6	2213.4	2770.8	2640.6	3177.6	3389.2
47.5°	1297.9	1289.8	1867.5	1843.1	1835.0	1769.9	2115.7	2189.0	2522.6	2734.2
50°	1041.6	1033.4	984.6	866.6	1509.5	1342.7	1525.8	1684.4	1790.2	1985.5
52.5°	862.6	854.4	752.7	667.3	838.1	980.6	911.4	1127.0	1123.0	1334.5
55°	565.5	524.9	577.8	545.2	439.4	712.0	695.7	854.4	834.1	1017.2
57.5°	12.2	12.2	28.5	309.2	276.7	301.1	398.7	488.2	549.3	602.2
60°	4.1	4.1	8.1	16.3	113.9	126.1	154.6	179.0	252.3	313.3
62.5°	0.0	0.0	4.1	8.1	16.3	65.1	73.2	85.4	118.0	162.7
65°	0.0	0.0	0.0	4.1	8.1	16.3	24.4	52.9	73.2	93.6
67.5°	0.0	0.0	0.0	4.1	4.1	8.1	16.3	24.4	32.5	65.1
70°	0.0	0.0	0.0	4.1	4.1	8.1	12.2	16.3	24.4	32.5
72.5°	0.0	0.0	0.0	4.1	4.1	12.2	8.1	12.2	16.3	20.3
75°	0.0	0.0	0.0	4.1	4.1	4.1	8.1	12.2	12.2	16.3
77.5°	0.0	0.0	0.0	4.1	8.1	8.1	8.1	8.1	8.1	12.2
80°	0.0	0.0	0.0	4.1	4.1	8.1	12.2	16.3	8.1	8.1
82.5°	0.0	0.0	0.0	8.1	4.1	16.3	24.4	20.3	8.1	4.1
85°	0.0	0.0	0.0	4.1	16.3	20.3	20.3	12.2	4.1	4.1
87.5°	0.0	0.0	0.0	4.1	4.1	8.1	12.2	12.2	4.1	4.1
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°
16982.7	0°	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7	16982.7
16921.7	2.5°	16828.1	16986.8	17129.2	17039.6	17007.1	16942.0	16893.2	16840.3	16836.2
16775.2	5°	16681.6	16832.1	16970.5	16864.7	16872.8	16840.3	16807.7	16795.5	16803.7
16624.6	7.5°	16555.5	16681.6	16832.1	16742.6	16767.0	16746.7	16730.4	16706.0	16742.6
16429.3	10°	16364.2	16478.2	16653.1	16567.7	16555.5	16535.1	16518.9	16474.1	16494.4
16075.4	12.5°	15945.2	16087.6	16286.9	16189.3	16221.8	16164.9	16140.5	16112.0	16116.1
15461.0	15°	15375.6	15485.4	15688.8	15611.5	15636.0	15599.3	15599.3	15599.3	15627.8
14346.2	17.5°	14382.8	14606.6	14928.0	14830.4	14867.0	14875.1	14867.0	14895.5	14932.1
12759.4	20°	12767.5	13150.0	13735.9	13927.1	14004.4	14008.5	13951.5	14020.7	14093.9
11274.3	22.5°	11282.5	11685.3	12202.0	12726.8	13052.3	13036.1	13044.2	13089.0	13166.3
9952.0	25°	9996.8	10383.3	10851.2	11319.1	12031.1	12177.6	12181.6	12222.3	12283.4
9048.8	27.5°	9069.1	9219.6	9646.8	10118.8	10883.7	11351.6	11327.2	11363.8	11428.9
7917.7	30°	7950.2	8528.0	8625.6	8914.5	9573.6	10432.1	10436.2	10476.9	10542.0
7250.4	32.5°	7230.1	7612.5	7913.6	7921.7	8483.2	9366.1	9541.1	9581.8	9626.5
6558.7	35°	6554.6	6599.4	7006.3	7120.2	7445.7	8320.5	8629.7	8654.1	8727.3
5578.2	37.5°	5671.7	5936.2	6050.1	6457.0	6473.3	7181.2	7795.6	7771.2	7828.1
4801.0	40°	4862.1	5114.3	5403.2	5700.2	5740.9	6269.8	6949.3	6973.7	6998.1
3983.2	42.5°	4015.8	4337.2	4634.2	4833.6	5110.3	5415.4	6062.3	6176.3	6233.2
3413.6	45°	3474.7	3564.2	3918.1	4211.1	4491.8	4634.2	5240.5	5448.0	5484.6
2701.6	47.5°	2738.2	3039.3	3279.4	3527.5	3877.5	4003.6	4443.0	4731.9	4760.4
2005.9	50°	2115.7	2331.4	2660.9	2884.7	3291.6	3360.7	3661.8	4036.1	4072.8
1342.7	52.5°	1513.6	1806.5	2127.9	2343.6	2734.2	2823.7	3047.4	3405.5	3429.9
1029.4	55°	1086.3	1277.6	1542.0	1851.3	2136.1	2335.4	2490.0	2831.8	2864.4
675.4	57.5°	740.5	919.5	1029.4	1338.6	1509.5	1725.1	1851.3	2111.6	2136.1
321.4	60°	354.0	439.4	524.9	679.5	789.3	972.4	1053.8	1159.6	1188.1
195.3	62.5°	227.8	268.5	341.8	406.9	512.7	626.6	659.1	748.6	781.2
122.1	65°	150.5	191.2	268.5	284.8	390.6	480.1	520.8	585.9	622.5
73.2	67.5°	85.4	134.3	199.4	236.0	309.2	394.7	439.4	496.4	528.9
48.8	70°	57.0	109.9	158.7	195.3	244.1	317.4	374.3	423.1	443.5
24.4	72.5°	32.5	69.2	109.9	154.6	195.3	264.5	317.4	358.0	236.0
16.3	75°	20.3	52.9	93.6	130.2	162.7	211.6	256.3	252.3	105.8
12.2	77.5°	16.3	40.7	81.4	109.9	134.3	146.5	183.1	207.5	81.4
8.1	80°	12.2	32.5	73.2	93.6	52.9	105.8	142.4	154.6	57.0
8.1	82.5°	8.1	20.3	61.0	65.1	36.6	77.3	113.9	101.7	40.7
4.1	85°	4.1	12.2	20.3	36.6	32.5	36.6	28.5	40.7	28.5
4.1	87.5°	4.1	8.1	16.3	16.3	16.3	12.2	16.3	16.3	16.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16982.7
16933.9
16905.4
16844.4
16592.1
16234.0
15640.0
15054.1
14142.7
13178.5
12389.1
11490.0
10655.9
9728.2
8804.6
7897.3
7075.4
6314.6
5574.1
4829.5
4125.6
3474.7
2892.8
2184.9
1220.6
789.3
622.5
524.9
439.4
191.2
105.8
81.4
61.0
40.7
28.5
16.3
0.0

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