

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: P636653

Luminaire Tested: **IFLD-S-SA2D-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8998.1 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

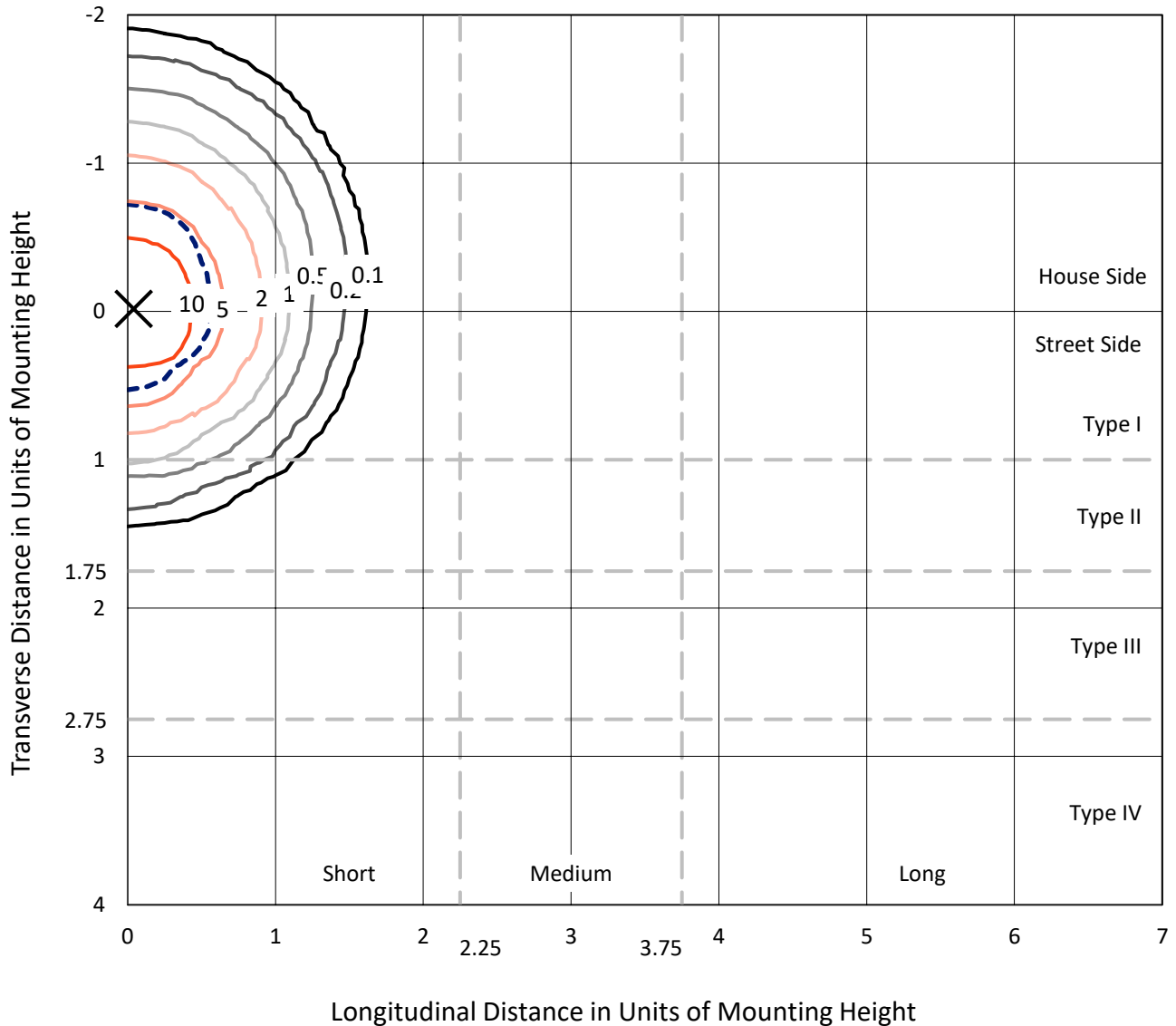
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

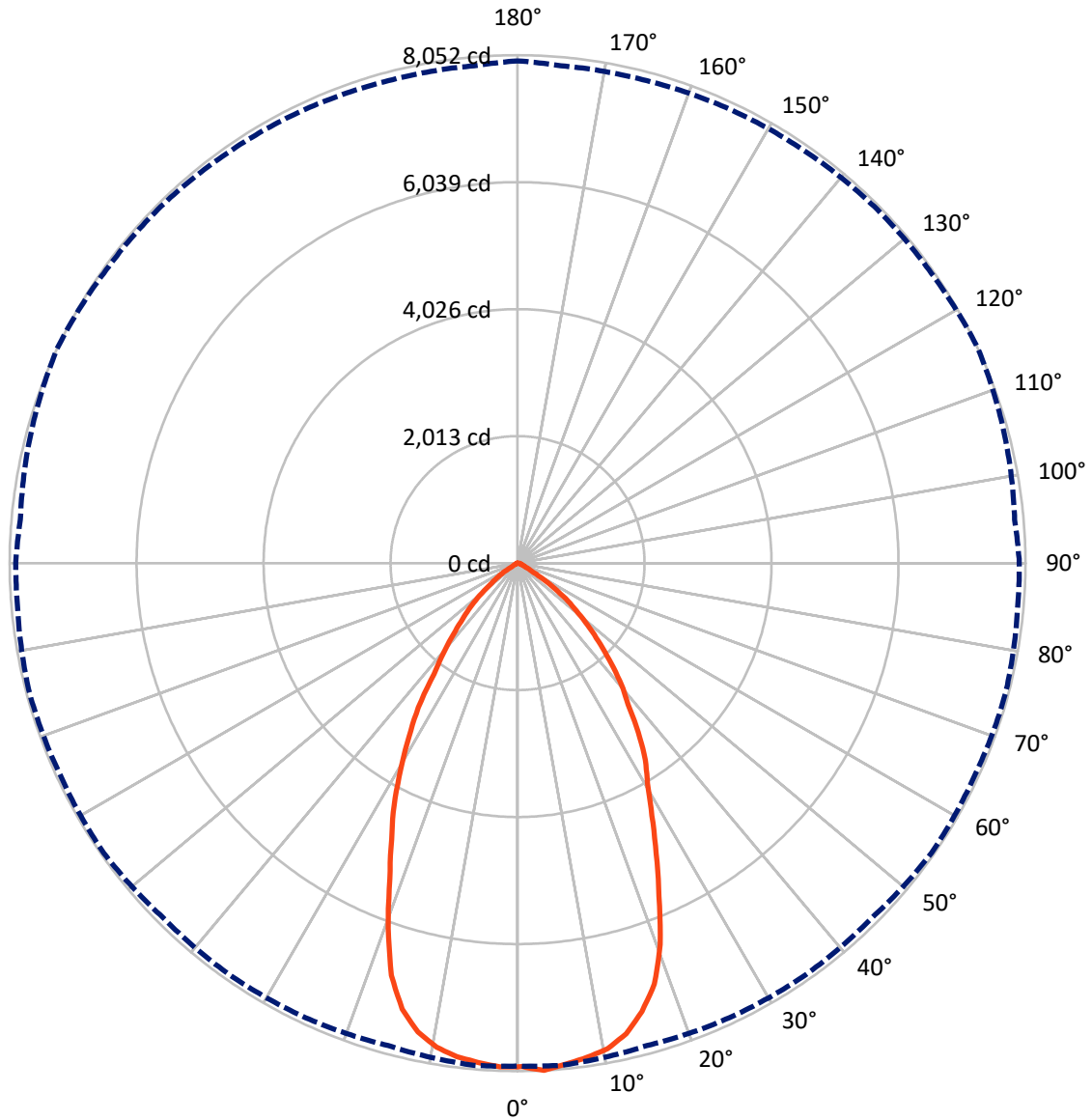
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20 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	5149.5	0.0	5149.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3848.6	0.0	3848.6
	% Fixture	42.8	0.0	42.8
Total	Lumens	8998.1	0.0	8998.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.0	8.4
10°-20°	1993.8	22.2
20°-30°	2280.5	25.3
30°-40°	1954.3	21.7
40°-50°	1292.3	14.4
50°-60°	563.9	6.3
60°-70°	110.8	1.2
70°-80°	40.0	0.4
80°-90°	10.6	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°	8998.1	100.0
0°-180°	8998.1	100.0



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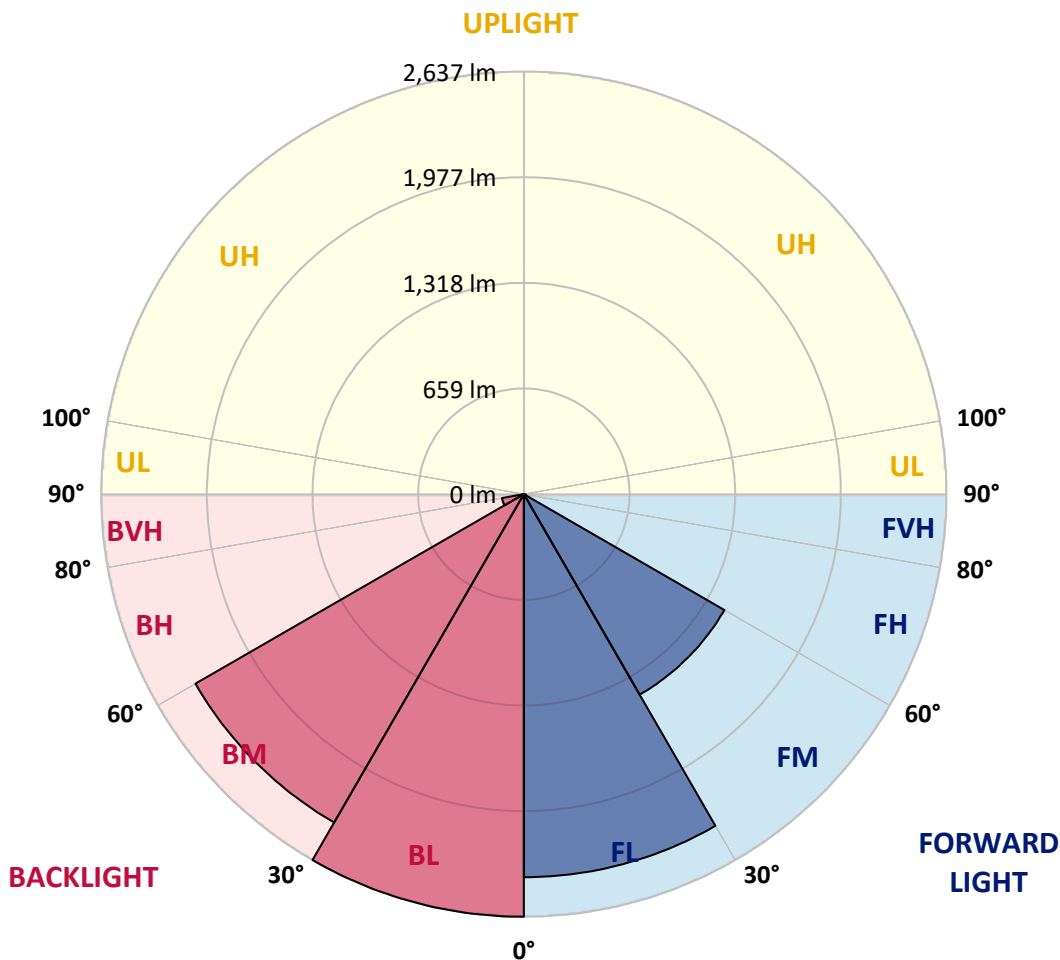
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2389.7	26.6			
FM	(30°-60°)	1444.9	16.1			
FH	(60°-80°)	12.2	0.1			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	2636.5	29.3	B4/5000		
BM	(30°-60°)	2365.6	26.3	B2/2500		
BH	(60°-80°)	138.5	1.5	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6
2.5°	7972.1	7991.2	7918.5	7951.0	7964.4	7947.2	8010.3	7991.2	8006.5	7958.7
5°	7972.1	7991.2	7907.0	7922.3	7926.2	7893.7	7962.5	7939.6	7941.5	7891.7
7.5°	7922.3	7945.3	7868.8	7880.3	7882.2	7855.4	7914.7	7882.2	7870.7	7819.1
10°	7788.5	7801.8	7733.0	7761.7	7788.5	7763.6	7815.2	7778.9	7778.9	7733.0
12.5°	7576.2	7601.0	7524.5	7558.9	7581.9	7553.2	7612.5	7599.1	7601.0	7555.1
15°	7189.8	7103.7	7195.5	7264.4	7266.3	7260.6	7316.0	7302.6	7312.2	7243.3
17.5°	5311.5	5290.5	5397.6	6210.5	6814.9	6897.1	6906.7	6834.0	6801.5	6734.6
20°	4921.3	4936.6	4913.7	4917.5	5393.8	6382.6	6323.3	6143.5	6061.3	5994.4
22.5°	4636.4	4611.5	4596.2	4586.6	4600.0	5244.6	5671.1	5399.5	5355.5	5323.0
25°	4326.5	4315.0	4295.9	4292.1	4284.4	4175.4	4789.4	4814.2	4743.5	4703.3
27.5°	4037.7	4030.0	4009.0	4007.1	3919.1	3655.1	3722.1	4313.1	4294.0	4278.7
30°	3729.7	3714.4	3703.0	3703.0	3437.1	3165.5	3056.5	3760.3	3760.3	3747.0
32.5°	3395.0	3381.6	3385.5	3339.6	3022.0	2773.4	2601.3	3245.8	3446.7	3435.2
35°	2075.3	2071.4	2459.7	2970.4	2597.4	2371.7	2360.3	2777.2	3069.9	3100.5
37.5°	1847.7	1836.2	1841.9	1874.4	2224.5	2134.6	2130.7	2201.5	2612.7	2628.0
40°	1658.3	1650.6	1644.9	1528.2	1417.3	1905.0	1891.6	1845.7	2232.1	2258.9
42.5°	1478.5	1470.9	1470.9	1306.4	1126.6	1566.5	1572.2	1518.7	1882.1	1891.6
45°	1293.0	1287.2	1254.7	1042.4	990.8	1040.5	1302.5	1241.3	1493.8	1593.3
47.5°	610.1	606.3	877.9	866.4	862.6	832.0	994.6	1029.0	1185.9	1285.3
50°	489.6	485.8	462.9	407.4	709.6	631.2	717.3	791.9	841.6	933.4
52.5°	405.5	401.7	353.8	313.7	394.0	461.0	428.4	529.8	527.9	627.4
55°	265.9	246.7	271.6	256.3	206.6	334.7	327.1	401.7	392.1	478.2
57.5°	5.7	5.7	13.4	145.4	130.1	141.5	187.4	229.5	258.2	283.1
60°	1.9	1.9	3.8	7.7	53.6	59.3	72.7	84.2	118.6	147.3
62.5°	0.0	0.0	1.9	3.8	7.7	30.6	34.4	40.2	55.5	76.5
65°	0.0	0.0	0.0	1.9	3.8	7.7	11.5	24.9	34.4	44.0
67.5°	0.0	0.0	0.0	1.9	1.9	3.8	7.7	11.5	15.3	30.6
70°	0.0	0.0	0.0	1.9	1.9	3.8	5.7	7.7	11.5	15.3
72.5°	0.0	0.0	0.0	1.9	1.9	5.7	3.8	5.7	7.7	9.6
75°	0.0	0.0	0.0	1.9	1.9	1.9	3.8	5.7	5.7	7.7
77.5°	0.0	0.0	0.0	1.9	3.8	3.8	3.8	3.8	3.8	5.7
80°	0.0	0.0	0.0	1.9	1.9	3.8	5.7	7.7	3.8	3.8
82.5°	0.0	0.0	0.0	3.8	1.9	7.7	11.5	9.6	3.8	1.9
85°	0.0	0.0	0.0	1.9	7.7	9.6	9.6	5.7	1.9	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	5.7	5.7	1.9	1.9
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°
7983.6	0°	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6	7983.6
7954.9	2.5°	7910.9	7985.5	8052.4	8010.3	7995.0	7964.4	7941.5	7916.6	7914.7
7886.0	5°	7842.0	7912.8	7977.8	7928.1	7931.9	7916.6	7901.3	7895.6	7899.4
7815.2	7.5°	7782.7	7842.0	7912.8	7870.7	7882.2	7872.6	7865.0	7853.5	7870.7
7723.4	10°	7692.8	7746.4	7828.6	7788.5	7782.7	7773.2	7765.5	7744.5	7754.0
7557.0	12.5°	7495.8	7562.8	7656.5	7610.6	7625.9	7599.1	7587.6	7574.2	7576.2
7268.2	15°	7228.0	7279.7	7375.3	7339.0	7350.5	7333.2	7333.2	7333.2	7346.6
6744.1	17.5°	6761.3	6866.5	7017.6	6971.7	6989.0	6992.8	6989.0	7002.3	7019.6
5998.2	20°	6002.0	6181.8	6457.2	6547.1	6583.5	6585.4	6558.6	6591.1	6625.5
5300.1	22.5°	5303.9	5493.2	5736.1	5982.9	6135.9	6128.2	6132.1	6153.1	6189.5
4678.4	25°	4699.5	4881.2	5101.1	5321.1	5655.8	5724.7	5726.6	5745.7	5774.4
4253.8	27.5°	4263.4	4334.1	4535.0	4756.9	5116.4	5336.4	5324.9	5342.1	5372.7
3722.1	30°	3737.4	4009.0	4054.9	4190.7	4500.6	4904.1	4906.0	4925.2	4955.8
3408.4	32.5°	3398.8	3578.6	3720.2	3724.0	3988.0	4403.0	4485.2	4504.4	4525.4
3083.3	35°	3081.3	3102.4	3293.6	3347.2	3500.2	3911.4	4056.8	4068.3	4102.7
2622.3	37.5°	2666.3	2790.6	2844.2	3035.4	3043.1	3375.9	3664.7	3653.2	3680.0
2257.0	40°	2285.7	2404.2	2540.0	2679.7	2698.8	2947.4	3266.9	3278.3	3289.8
1872.5	42.5°	1887.8	2038.9	2178.5	2272.3	2402.3	2545.8	2849.9	2903.5	2930.2
1604.7	45°	1633.4	1675.5	1841.9	1979.6	2111.6	2178.5	2463.5	2561.1	2578.3
1270.0	47.5°	1287.2	1428.8	1541.6	1658.3	1822.8	1882.1	2088.7	2224.5	2237.8
943.0	50°	994.6	1096.0	1250.9	1356.1	1547.4	1579.9	1721.4	1897.4	1914.6
631.2	52.5°	711.5	849.2	1000.3	1101.7	1285.3	1327.4	1432.6	1600.9	1612.4
483.9	55°	510.7	600.6	724.9	870.3	1004.2	1097.9	1170.6	1331.2	1346.5
317.5	57.5°	348.1	432.3	483.9	629.3	709.6	811.0	870.3	992.7	1004.2
151.1	60°	166.4	206.6	246.7	319.4	371.1	457.1	495.4	545.1	558.5
91.8	62.5°	107.1	126.2	160.7	191.3	241.0	294.6	309.9	351.9	367.2
57.4	65°	70.8	89.9	126.2	133.9	183.6	225.7	244.8	275.4	292.6
34.4	67.5°	40.2	63.1	93.7	110.9	145.4	185.5	206.6	233.3	248.6
23.0	70°	26.8	51.6	74.6	91.8	114.8	149.2	176.0	198.9	208.5
11.5	72.5°	15.3	32.5	51.6	72.7	91.8	124.3	149.2	168.3	110.9
7.7	75°	9.6	24.9	44.0	61.2	76.5	99.5	120.5	118.6	49.7
5.7	77.5°	7.7	19.1	38.3	51.6	63.1	68.9	86.1	97.5	38.3
3.8	80°	5.7	15.3	34.4	44.0	24.9	49.7	66.9	72.7	26.8
3.8	82.5°	3.8	9.6	28.7	30.6	17.2	36.3	53.6	47.8	19.1
1.9	85°	1.9	5.7	9.6	17.2	15.3	17.2	13.4	19.1	13.4
1.9	87.5°	1.9	3.8	7.7	7.7	7.7	5.7	7.7	7.7	7.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7983.6
7960.6
7947.2
7918.5
7799.9
7631.6
7352.4
7076.9
6648.5
6195.2
5824.1
5401.4
5009.3
4573.2
4139.1
3712.5
3326.2
2968.5
2620.4
2270.4
1939.5
1633.4
1359.9
1027.1
573.8
371.1
292.6
246.7
206.6
89.9
49.7
38.3
28.7
19.1
13.4
7.7
0.0

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