

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: P638246

Luminaire Tested: **IFLD-S-SA2B-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638246
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6455.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

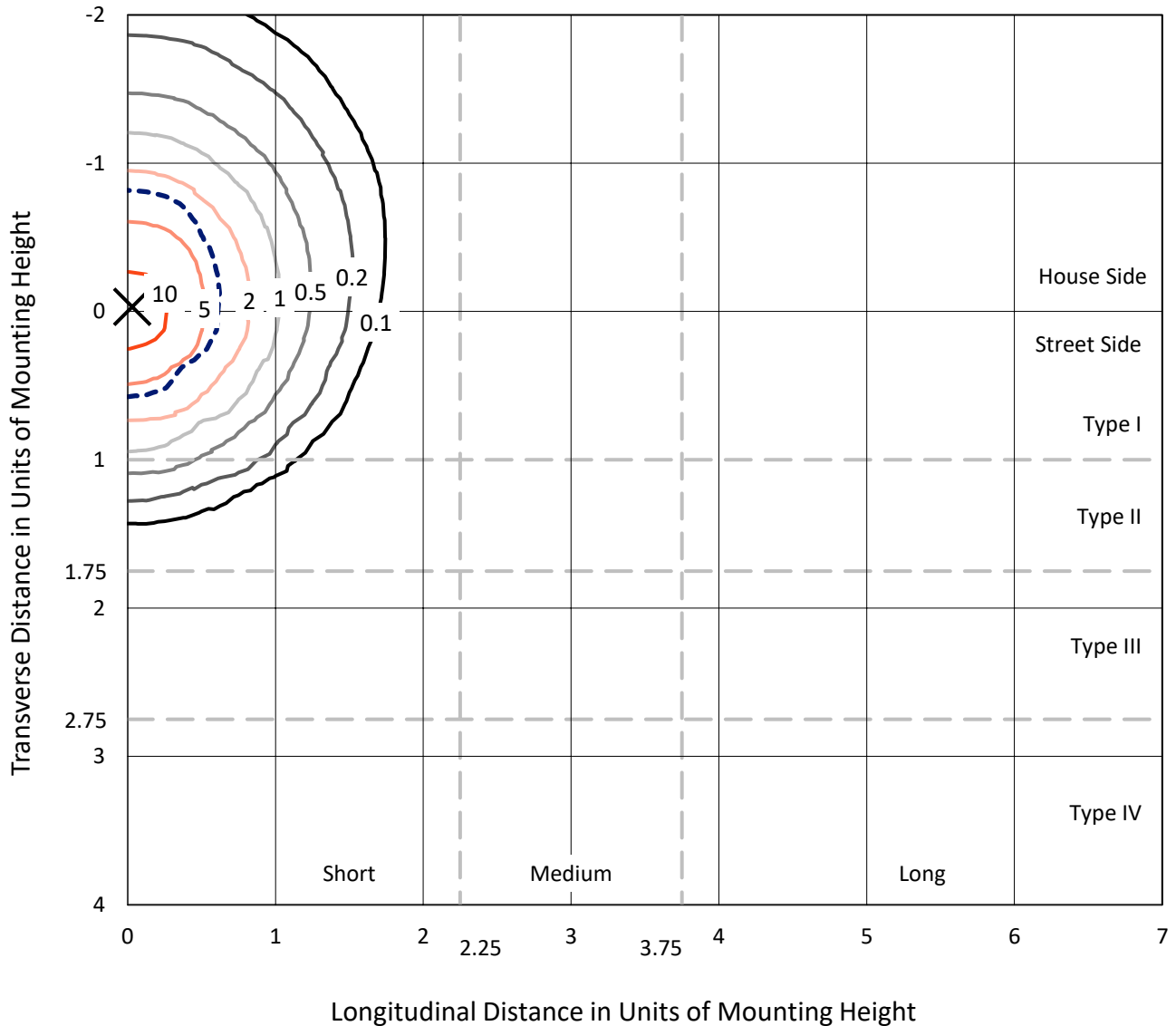
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

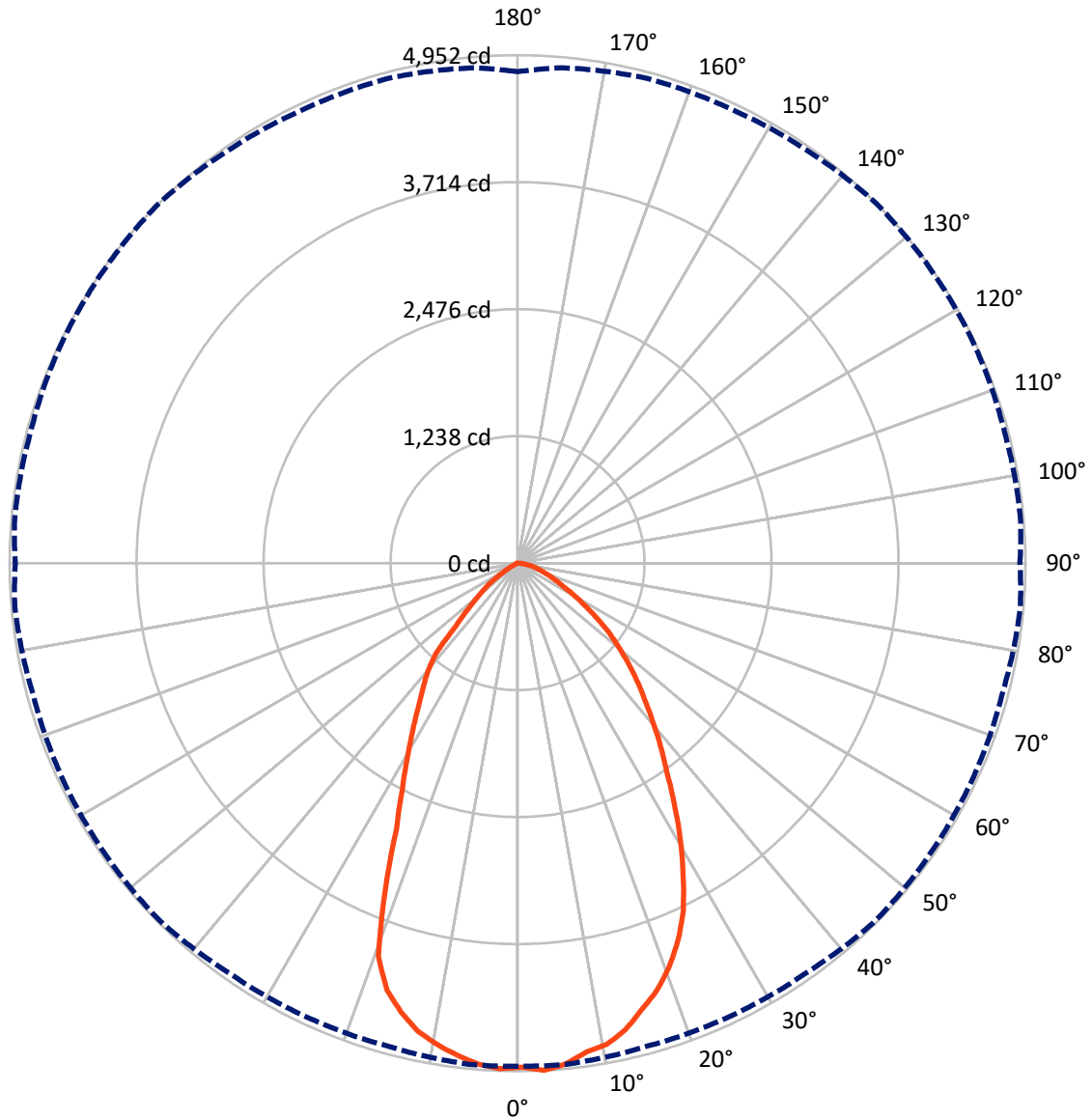
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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	3823.5	0.0	3823.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2632.4	0.0	2632.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	6455.9	0.0	6455.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.8	7.1
10°-20°	1235.5	19.1
20°-30°	1506.8	23.3
30°-40°	1375.7	21.3
40°-50°	994.2	15.4
50°-60°	542.8	8.4
60°-70°	224.4	3.5
70°-80°	90.9	1.4
80°-90°	24.7	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°	6455.9	100.0
0°-180°	6455.9	100.0



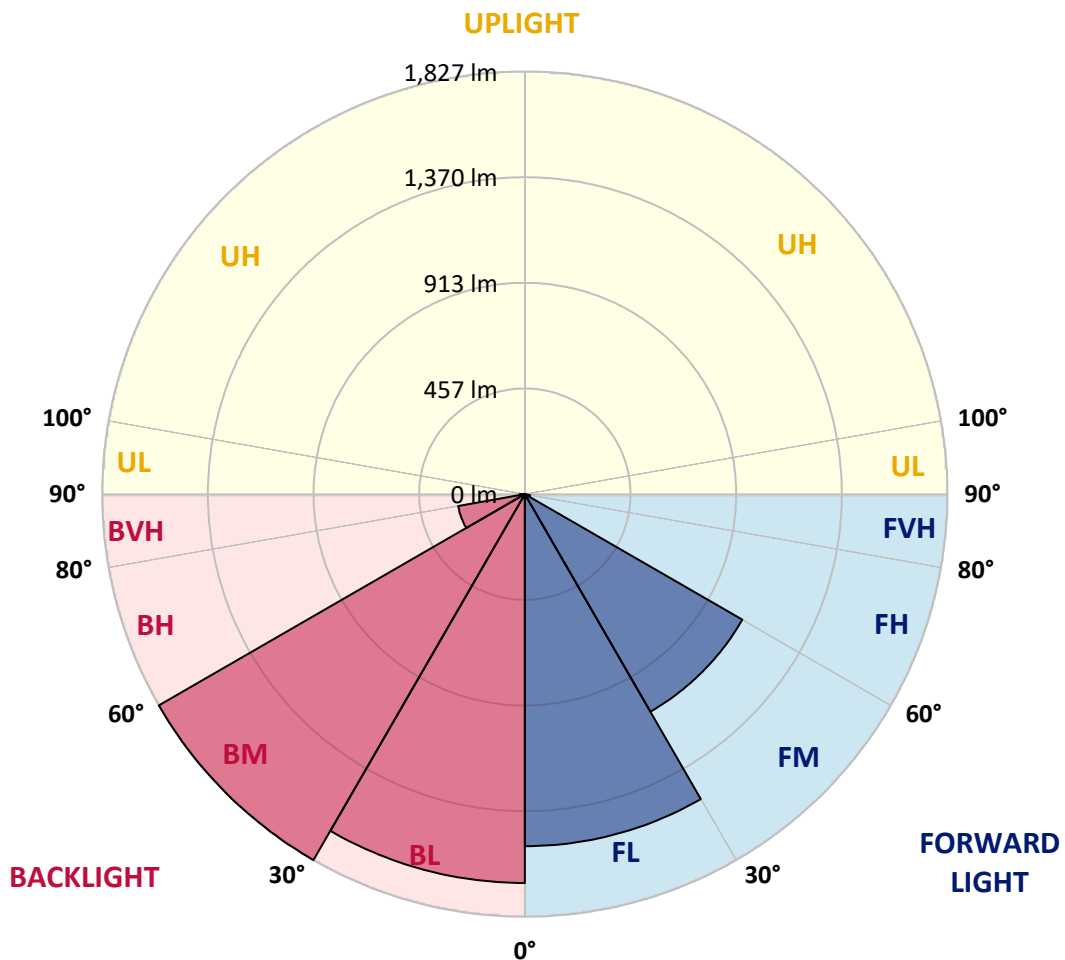
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.9	23.6			
FM (30°-60°)	1085.8	16.8			
FH (60°-80°)	22.7	0.4			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1681.2	26.0	B3/2500		
BM (30°-60°)	1827.0	28.3	B2/2500		
BH (60°-80°)	292.6	4.5	B1/500		G1/500
BVH (80°-90°)	22.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9
2.5°	4903.8	4910.2	4875.7	4879.3	4885.7	4932.0	4920.2	4909.3	4893.8	4920.2
5°	4897.5	4901.1	4864.8	4852.0	4857.5	4899.3	4861.1	4861.1	4857.5	4852.9
7.5°	4848.4	4850.2	4822.0	4799.3	4813.8	4832.9	4804.7	4818.4	4798.4	4813.8
10°	4774.7	4762.9	4729.3	4722.9	4739.3	4757.5	4738.4	4751.1	4732.9	4744.7
12.5°	4666.6	4648.4	4621.1	4612.9	4641.1	4665.7	4650.2	4642.9	4619.3	4648.4
15°	4249.3	4235.6	4297.5	4405.6	4502.9	4523.8	4507.5	4514.7	4465.6	4473.8
17.5°	3497.4	3472.0	3538.3	3794.7	4160.2	4352.9	4338.4	4291.1	4218.4	4234.7
20°	3178.3	3171.0	3163.8	3224.7	3480.1	4064.7	4084.7	3964.7	3861.1	3838.3
22.5°	2998.3	2995.6	2988.3	3001.9	3069.2	3444.7	3673.8	3562.9	3493.8	3487.4
25°	2833.8	2829.2	2807.4	2824.7	2824.7	2846.5	3140.1	3207.4	3146.5	3139.2
27.5°	2666.5	2658.3	2654.7	2662.8	2621.0	2473.7	2548.3	2876.5	2844.7	2846.5
30°	2485.6	2482.8	2472.8	2490.1	2361.0	2178.3	2131.0	2576.5	2582.8	2581.0
32.5°	2216.5	2228.3	2273.7	2292.8	2080.1	1929.2	1850.1	2229.2	2359.2	2356.5
35°	1610.1	1610.1	1758.3	2033.7	1822.8	1709.2	1666.4	1890.1	2138.3	2147.4
37.5°	1323.7	1328.2	1357.3	1482.8	1572.8	1532.8	1520.1	1591.0	1854.6	1869.2
40°	1191.0	1191.0	1191.0	1139.1	1136.4	1381.0	1373.7	1351.0	1601.9	1633.7
42.5°	1070.0	1072.8	1074.6	943.7	870.9	1193.7	1177.3	1142.8	1375.5	1412.8
45°	945.5	950.0	955.5	789.1	757.3	859.1	996.4	958.2	1151.9	1200.1
47.5°	577.3	584.6	708.2	669.1	672.8	662.8	812.8	806.4	944.6	1012.8
50°	390.0	392.7	404.6	424.6	577.3	520.9	575.5	667.3	717.3	820.9
52.5°	327.3	331.8	302.7	275.5	379.1	407.3	401.8	495.5	515.5	643.7
55°	230.0	244.6	230.9	228.2	215.5	316.4	304.6	380.9	393.7	489.1
57.5°	23.6	27.3	47.3	170.0	140.9	179.1	217.3	279.1	291.8	360.9
60°	1.8	1.8	4.5	23.6	102.7	107.3	150.0	171.8	196.4	251.8
62.5°	0.0	0.9	1.8	3.6	16.4	57.3	75.5	90.0	118.2	162.7
65°	0.0	0.0	0.9	2.7	3.6	21.8	29.1	47.3	64.5	100.9
67.5°	0.0	0.0	0.9	1.8	2.7	5.5	10.0	17.3	34.5	57.3
70°	0.0	0.0	0.9	1.8	2.7	4.5	7.3	10.9	15.5	30.9
72.5°	0.0	0.0	0.9	0.9	1.8	4.5	5.5	7.3	10.9	15.5
75°	0.0	0.0	0.9	0.9	2.7	5.5	4.5	5.5	7.3	10.0
77.5°	0.0	0.0	0.9	1.8	2.7	5.5	4.5	5.5	5.5	6.4
80°	0.0	0.0	0.9	1.8	3.6	6.4	5.5	5.5	4.5	4.5
82.5°	0.0	0.0	0.9	2.7	3.6	8.2	8.2	7.3	3.6	2.7
85°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	7.3	2.7	1.8
87.5°	0.0	0.0	1.8	2.7	4.5	6.4	9.1	7.3	2.7	0.9
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°
4912.9	0°	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9	4912.9
4897.5	2.5°	4922.0	4916.6	4934.8	4942.0	4952.0	4913.8	4890.2	4891.1	4847.5
4842.0	5°	4871.1	4872.0	4895.7	4893.8	4903.8	4882.9	4873.8	4858.4	4820.2
4772.0	7.5°	4806.6	4798.4	4821.1	4838.4	4812.9	4827.5	4806.6	4813.8	4791.1
4710.2	10°	4756.6	4737.5	4758.4	4770.2	4771.1	4756.6	4736.6	4717.5	4709.3
4613.8	12.5°	4645.7	4621.1	4656.6	4672.9	4670.2	4642.0	4619.3	4623.8	4597.5
4444.7	15°	4492.9	4493.8	4519.3	4534.7	4520.2	4513.8	4515.6	4504.7	4482.0
4211.1	17.5°	4259.3	4272.9	4340.2	4377.5	4385.6	4372.9	4366.5	4353.8	4331.1
3838.3	20°	3870.2	3952.0	4072.0	4187.4	4210.2	4206.5	4183.8	4178.4	4165.6
3469.2	22.5°	3528.3	3589.2	3728.3	3908.3	4001.1	4010.2	3982.9	3974.7	3961.1
3139.2	25°	3174.7	3240.1	3365.6	3561.1	3752.9	3792.0	3787.4	3762.9	3748.3
2846.5	27.5°	2876.5	2941.9	3055.6	3232.0	3437.4	3562.9	3574.7	3535.6	3534.7
2585.6	30°	2607.4	2697.4	2783.8	2927.4	3126.5	3314.7	3334.7	3307.4	3310.1
2346.5	32.5°	2396.5	2471.0	2544.7	2641.0	2806.5	3025.6	3103.8	3078.3	3068.3
2147.4	35°	2181.0	2231.9	2307.4	2395.6	2508.3	2725.6	2861.0	2841.9	2831.9
1878.3	37.5°	1935.5	2022.8	2077.4	2176.5	2264.6	2437.4	2628.3	2625.6	2604.7
1649.2	40°	1683.7	1775.5	1858.3	1958.3	2026.4	2163.7	2375.6	2374.6	2377.4
1411.9	42.5°	1455.5	1540.1	1640.1	1749.2	1814.6	1914.6	2141.9	2154.6	2170.1
1216.4	45°	1249.1	1325.5	1418.2	1551.0	1630.1	1687.3	1889.2	1947.4	1946.4
1041.9	47.5°	1063.7	1135.5	1213.7	1342.8	1443.7	1495.5	1662.8	1745.5	1740.1
854.6	50°	892.8	956.4	1038.2	1131.9	1267.3	1312.8	1437.3	1546.4	1538.2
680.9	52.5°	718.2	806.4	875.5	960.9	1103.7	1148.2	1244.6	1351.0	1344.6
510.9	55°	560.0	645.5	729.1	802.8	922.8	989.1	1058.2	1167.3	1165.5
400.0	57.5°	423.7	517.3	596.4	666.4	761.9	843.7	899.1	998.2	1011.0
273.6	60°	313.6	385.5	470.9	549.1	624.6	709.1	746.4	843.7	849.1
187.3	62.5°	213.6	292.7	376.4	447.3	503.7	590.9	624.6	704.6	714.6
120.0	65°	148.2	199.1	294.6	345.5	414.6	489.1	522.7	586.4	606.4
69.1	67.5°	98.2	141.8	230.0	276.4	344.6	395.5	438.2	490.0	511.8
43.6	70°	53.6	104.5	164.6	218.2	277.3	326.4	368.2	410.0	429.1
20.0	72.5°	36.4	70.0	114.6	172.7	223.6	271.8	309.1	340.0	340.9
11.8	75°	18.2	47.3	87.3	133.6	174.6	221.8	255.5	273.6	251.8
7.3	77.5°	10.9	34.5	70.9	107.3	141.8	179.1	198.2	208.2	172.7
5.5	80°	6.4	24.5	55.5	85.5	98.2	131.8	150.0	152.7	115.5
3.6	82.5°	4.5	18.2	43.6	62.7	60.0	92.7	112.7	109.1	73.6
2.7	85°	2.7	12.7	27.3	39.1	36.4	60.9	65.5	67.3	42.7
1.8	87.5°	1.8	7.3	14.5	20.9	17.3	26.4	26.4	31.8	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4912.9
4791.1
4811.1
4752.9
4672.9
4574.7
4459.3
4321.1
4136.5
3957.4
3732.9
3532.9
3296.5
3069.2
2818.3
2621.9
2377.4
2161.9
1948.3
1741.9
1545.5
1358.2
1170.0
1005.5
857.3
716.4
601.8
509.1
421.8
332.7
235.5
166.4
108.2
68.2
39.1
18.2
0.0

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