

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: P638043

Luminaire Tested: **IFLD-S-SA2B-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6469.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

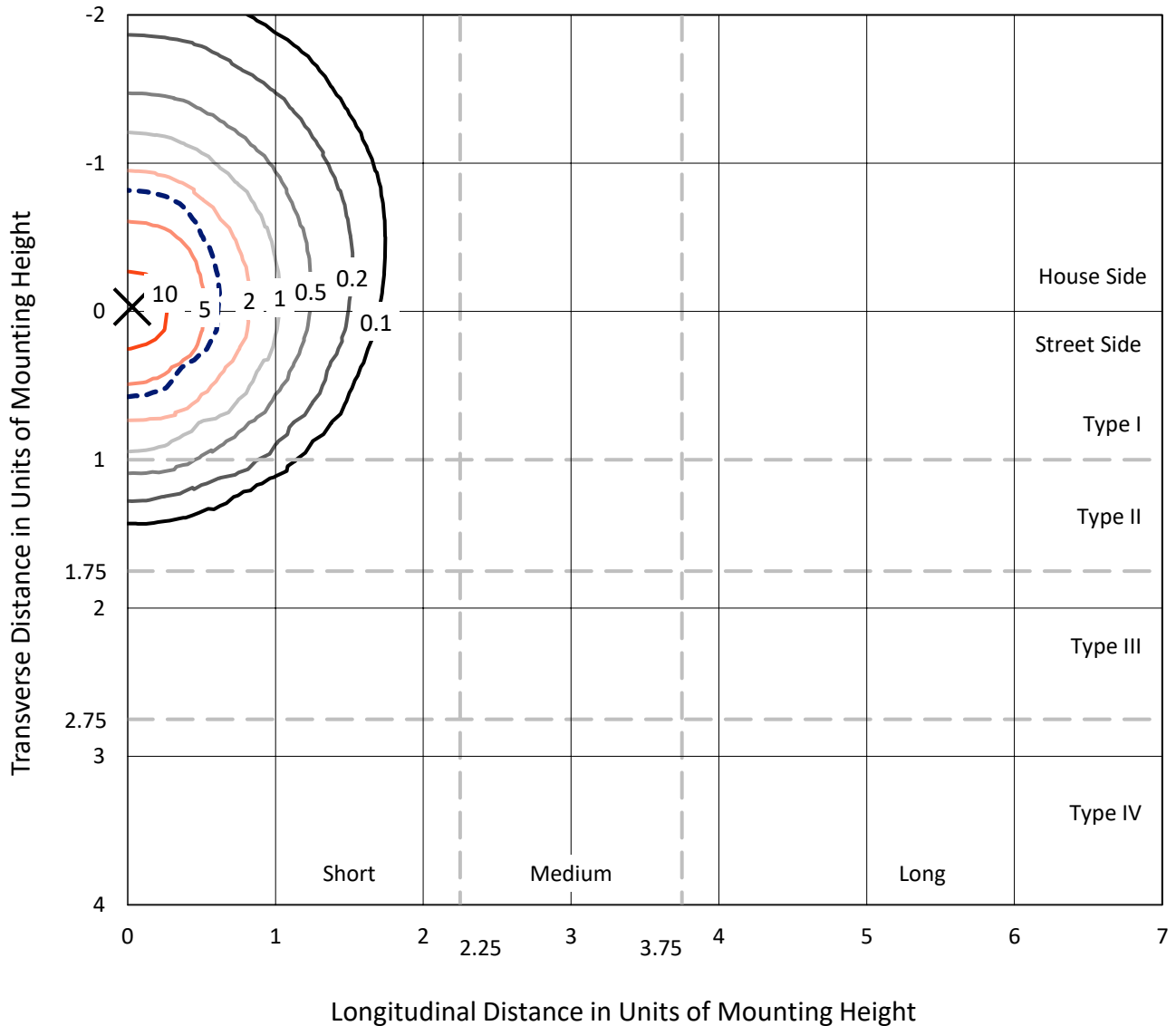
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

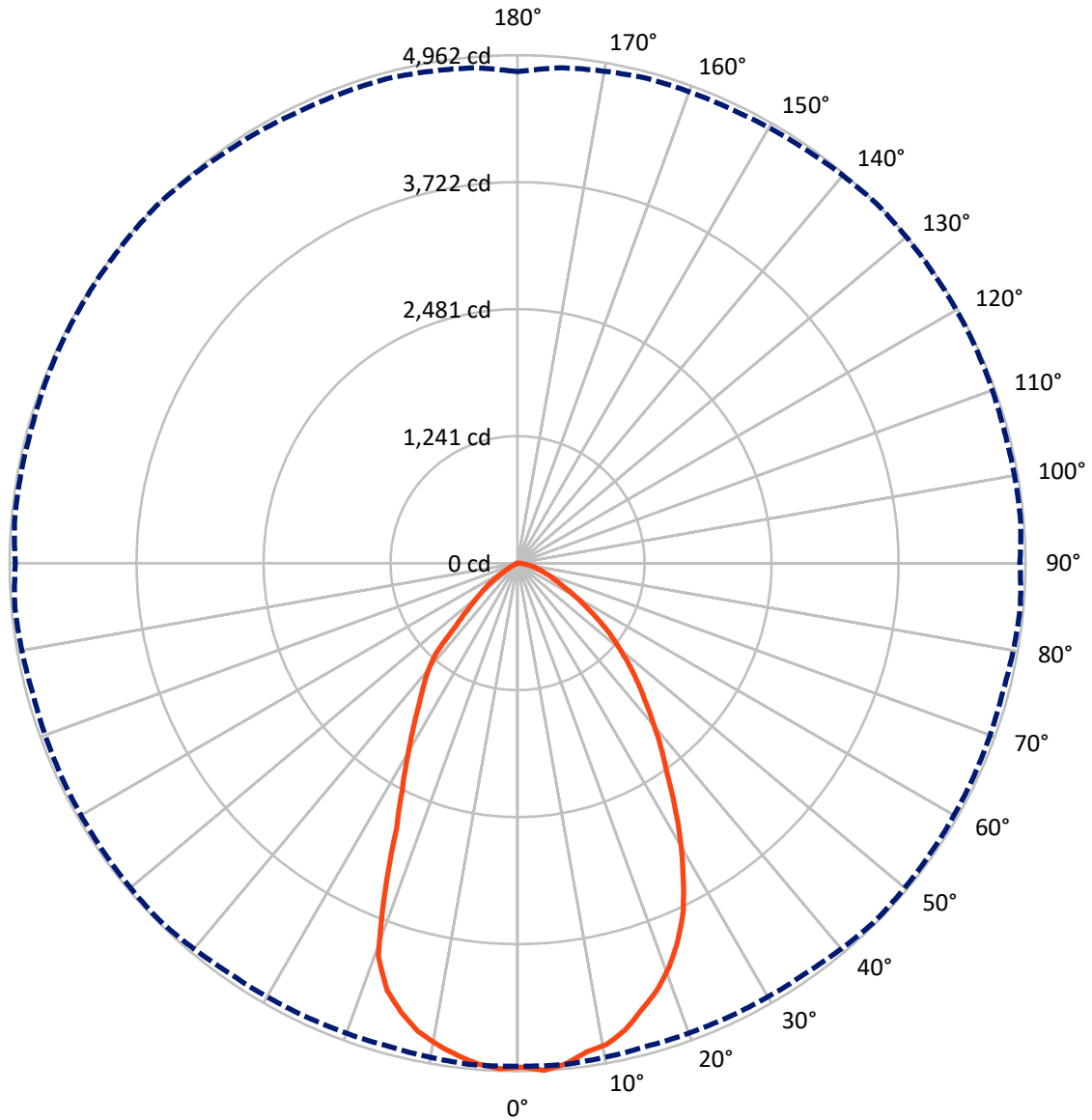
× Max cd
 - - - 1/2 Max cd



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	3831.3	0.0	3831.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2637.8	0.0	2637.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	6469.1	0.0	6469.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	7.1
10°-20°	1238.1	19.1
20°-30°	1509.9	23.3
30°-40°	1378.5	21.3
40°-50°	996.2	15.4
50°-60°	544.0	8.4
60°-70°	224.9	3.5
70°-80°	91.1	1.4
80°-90°	24.8	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°	6469.1	100.0
0°-180°	6469.1	100.0



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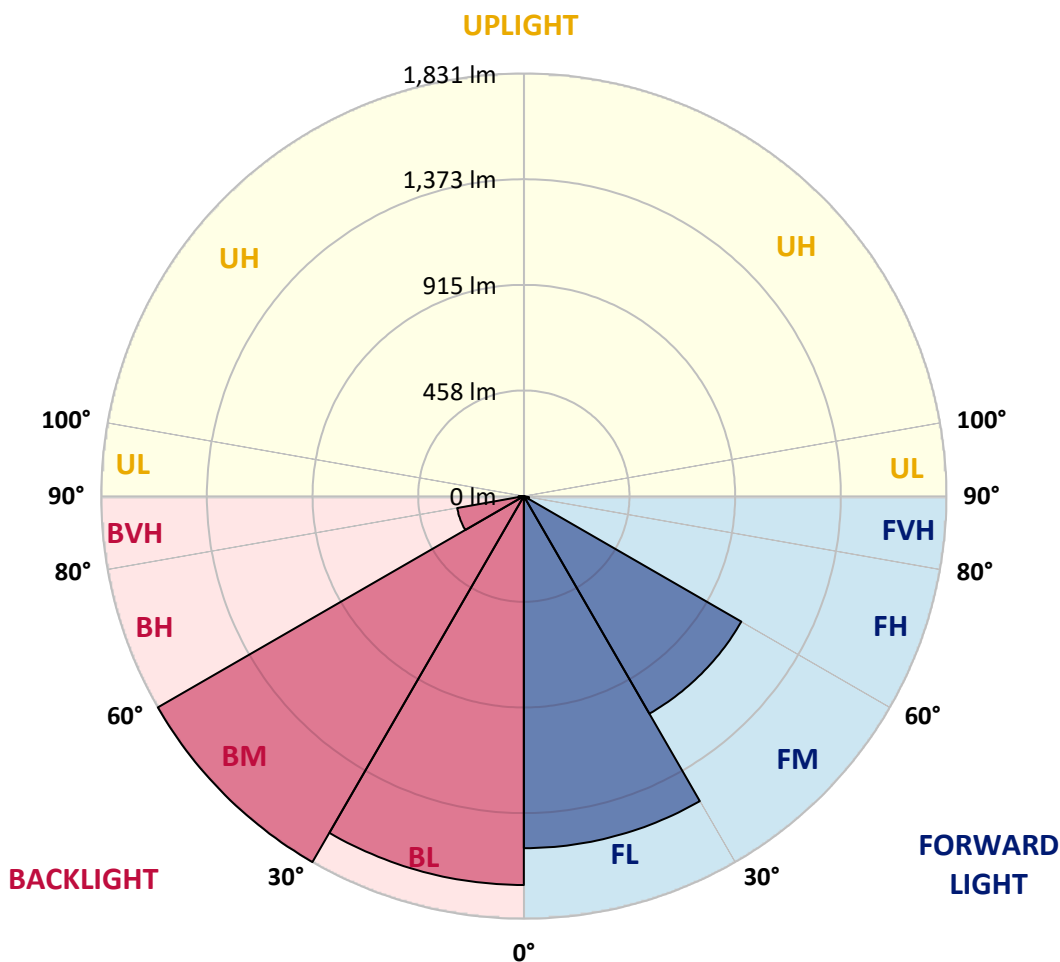
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.0	23.6			
FM	(30°-60°)	1088.0	16.8			
FH	(60°-80°)	22.8	0.4			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	1684.6	26.0	B3/2500		
BM	(30°-60°)	1830.7	28.3	B2/2500		
BH	(60°-80°)	293.2	4.5	B1/500		G1/500
BVH	(80°-90°)	22.8	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°	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0
2.5°	4913.9	4920.2	4885.6	4889.3	4895.6	4942.1	4930.2	4919.3	4903.8	4930.2
5°	4907.5	4911.1	4874.7	4861.9	4867.4	4909.3	4871.0	4871.0	4867.4	4862.8
7.5°	4858.3	4860.1	4831.9	4809.1	4823.7	4842.8	4814.6	4828.2	4808.2	4823.7
10°	4784.5	4772.6	4738.9	4732.6	4749.0	4767.2	4748.1	4760.8	4742.6	4754.4
12.5°	4676.1	4657.9	4630.5	4622.3	4650.6	4675.2	4659.7	4652.4	4628.7	4657.9
15°	4257.9	4244.3	4306.2	4414.6	4512.1	4533.1	4516.7	4523.9	4474.8	4483.0
17.5°	3504.6	3479.0	3545.6	3802.4	4168.7	4361.8	4347.2	4299.8	4227.0	4243.4
20°	3184.8	3177.5	3170.2	3231.3	3487.2	4073.0	4093.1	3972.8	3869.0	3846.2
22.5°	3004.4	3001.7	2994.4	3008.1	3075.5	3451.7	3681.3	3570.1	3500.9	3494.5
25°	2839.5	2835.0	2813.1	2830.4	2830.4	2852.3	3146.5	3214.0	3152.9	3145.6
27.5°	2671.9	2663.7	2660.1	2668.3	2626.4	2478.8	2553.5	2882.4	2850.5	2852.3
30°	2490.6	2487.9	2477.9	2495.2	2365.8	2182.7	2135.3	2581.7	2588.1	2586.3
32.5°	2221.0	2232.8	2278.4	2297.5	2084.3	1933.1	1853.9	2233.7	2364.0	2361.3
35°	1613.4	1613.4	1761.8	2037.9	1826.5	1712.7	1669.8	1893.9	2142.6	2151.7
37.5°	1326.4	1330.9	1360.1	1485.8	1576.0	1535.9	1523.2	1594.2	1858.4	1873.0
40°	1193.4	1193.4	1193.4	1141.5	1138.7	1383.8	1376.5	1353.7	1605.2	1637.0
42.5°	1072.2	1075.0	1076.8	945.6	872.7	1196.1	1179.7	1145.1	1378.3	1415.7
45°	947.4	952.0	957.4	790.7	758.9	860.9	998.4	960.2	1154.2	1202.5
47.5°	578.5	585.8	709.7	670.5	674.1	664.1	814.4	808.0	946.5	1014.8
50°	390.8	393.5	405.4	425.4	578.5	522.0	576.7	668.7	718.8	822.6
52.5°	328.0	332.5	303.4	276.0	379.9	408.1	402.7	496.5	516.5	645.0
55°	230.5	245.1	231.4	228.7	215.9	317.0	305.2	381.7	394.5	490.1
57.5°	23.7	27.3	47.4	170.4	141.2	179.5	217.7	279.7	292.4	361.7
60°	1.8	1.8	4.6	23.7	102.9	107.5	150.3	172.2	196.8	252.3
62.5°	0.0	0.9	1.8	3.6	16.4	57.4	75.6	90.2	118.4	163.1
65°	0.0	0.0	0.9	2.7	3.6	21.9	29.2	47.4	64.7	101.1
67.5°	0.0	0.0	0.9	1.8	2.7	5.5	10.0	17.3	34.6	57.4
70°	0.0	0.0	0.9	1.8	2.7	4.6	7.3	10.9	15.5	31.0
72.5°	0.0	0.0	0.9	0.9	1.8	4.6	5.5	7.3	10.9	15.5
75°	0.0	0.0	0.9	0.9	2.7	5.5	4.6	5.5	7.3	10.0
77.5°	0.0	0.0	0.9	1.8	2.7	5.5	4.6	5.5	5.5	6.4
80°	0.0	0.0	0.9	1.8	3.6	6.4	5.5	5.5	4.6	4.6
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	4.6	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°
4923.0	0°	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0	4923.0
4907.5	2.5°	4932.1	4926.6	4944.8	4952.1	4962.1	4923.9	4900.2	4901.1	4857.4
4851.9	5°	4881.1	4882.0	4905.7	4903.8	4913.9	4892.9	4883.8	4868.3	4830.0
4781.8	7.5°	4816.4	4808.2	4831.0	4848.3	4822.8	4837.3	4816.4	4823.7	4800.9
4719.8	10°	4766.3	4747.1	4768.1	4779.9	4780.8	4766.3	4746.2	4727.1	4718.9
4623.2	12.5°	4655.1	4630.5	4666.1	4682.5	4679.7	4651.5	4628.7	4633.3	4606.8
4453.8	15°	4502.1	4503.0	4528.5	4544.0	4529.4	4523.0	4524.9	4513.9	4491.2
4219.7	17.5°	4268.0	4281.6	4349.0	4386.4	4394.6	4381.8	4375.5	4362.7	4339.9
3846.2	20°	3878.1	3960.0	4080.3	4196.0	4218.8	4215.1	4192.4	4186.9	4174.1
3476.3	22.5°	3535.5	3596.6	3735.9	3916.3	4009.2	4018.4	3991.0	3982.8	3969.2
3145.6	25°	3181.2	3246.7	3372.5	3568.3	3760.5	3799.7	3795.2	3770.6	3756.0
2852.3	27.5°	2882.4	2947.9	3061.8	3238.5	3444.4	3570.1	3582.0	3542.8	3541.9
2590.8	30°	2612.7	2702.9	2789.4	2933.4	3132.9	3321.4	3341.5	3314.2	3316.9
2351.3	32.5°	2401.4	2476.1	2549.8	2646.4	2812.2	3031.8	3110.1	3084.6	3074.6
2151.7	35°	2185.5	2236.5	2312.1	2400.4	2513.4	2731.1	2866.9	2847.7	2837.7
1882.1	37.5°	1939.5	2026.9	2081.6	2180.9	2269.3	2442.3	2633.7	2630.9	2610.0
1652.5	40°	1687.1	1779.2	1862.1	1962.3	2030.6	2168.1	2380.4	2379.5	2382.2
1414.8	42.5°	1458.5	1543.2	1643.4	1752.7	1818.3	1918.5	2146.3	2159.0	2174.5
1218.9	45°	1251.7	1328.2	1421.1	1554.1	1633.4	1690.8	1893.0	1951.3	1950.4
1044.0	47.5°	1065.9	1137.8	1216.2	1345.5	1446.6	1498.6	1666.2	1749.1	1743.6
856.3	50°	894.6	958.4	1040.3	1134.2	1269.9	1315.5	1440.3	1549.6	1541.4
682.3	52.5°	719.7	808.0	877.3	962.9	1105.9	1150.6	1247.1	1353.7	1347.3
512.0	55°	561.2	646.8	730.6	804.4	924.6	991.2	1060.4	1169.7	1167.9
400.8	57.5°	424.5	518.4	597.6	667.8	763.4	845.4	901.0	1000.3	1013.0
274.2	60°	314.3	386.3	471.9	550.2	625.8	710.6	747.9	845.4	850.9
187.7	62.5°	214.1	293.3	377.1	448.2	504.7	592.1	625.8	706.0	716.0
120.2	65°	148.5	199.5	295.2	346.2	415.4	490.1	523.8	587.6	607.6
69.2	67.5°	98.4	142.1	230.5	276.9	345.3	396.3	439.1	491.0	512.9
43.7	70°	53.7	104.8	164.9	218.6	277.9	327.0	368.9	410.9	430.0
20.0	72.5°	36.4	70.1	114.8	173.1	224.1	272.4	309.7	340.7	341.6
11.8	75°	18.2	47.4	87.5	133.9	174.9	222.3	256.0	274.2	252.3
7.3	77.5°	10.9	34.6	71.1	107.5	142.1	179.5	198.6	208.6	173.1
5.5	80°	6.4	24.6	55.6	85.6	98.4	132.1	150.3	153.0	115.7
3.6	82.5°	4.6	18.2	43.7	62.9	60.1	92.9	113.0	109.3	73.8
2.7	85°	2.7	12.8	27.3	39.2	36.4	61.0	65.6	67.4	42.8
1.8	87.5°	1.8	7.3	14.6	21.0	17.3	26.4	26.4	31.9	21.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4923.0
4800.9
4820.9
4762.6
4682.5
4584.1
4468.4
4329.9
4145.0
3965.5
3740.5
3540.1
3303.2
3075.5
2824.1
2627.3
2382.2
2166.3
1952.2
1745.4
1548.7
1361.0
1172.4
1007.5
859.1
717.9
603.1
510.2
422.7
333.4
235.9
166.7
108.4
68.3
39.2
18.2
0.0

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