

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: P636740

Luminaire Tested: **IFLD-S-SA2D-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7699 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

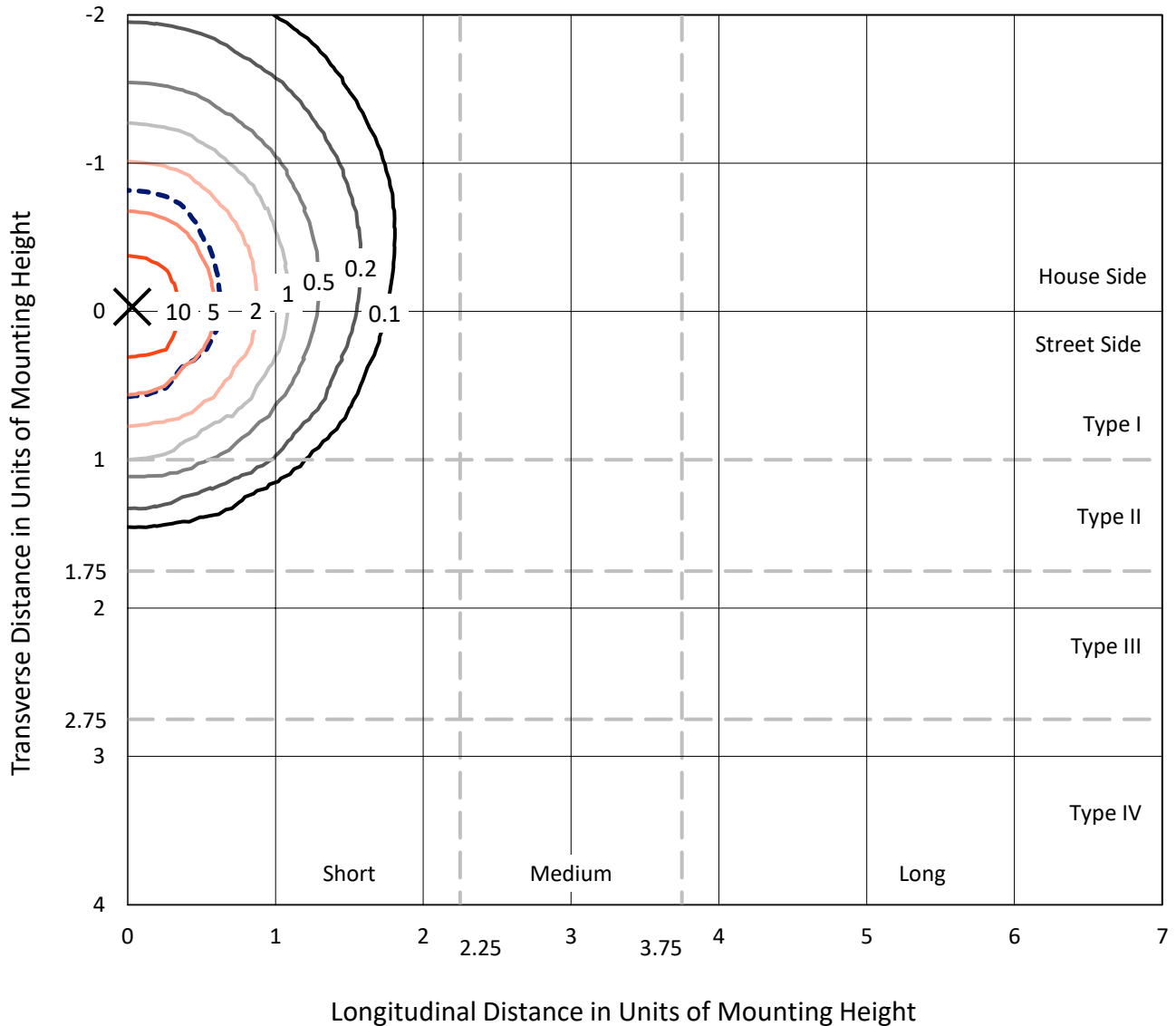
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

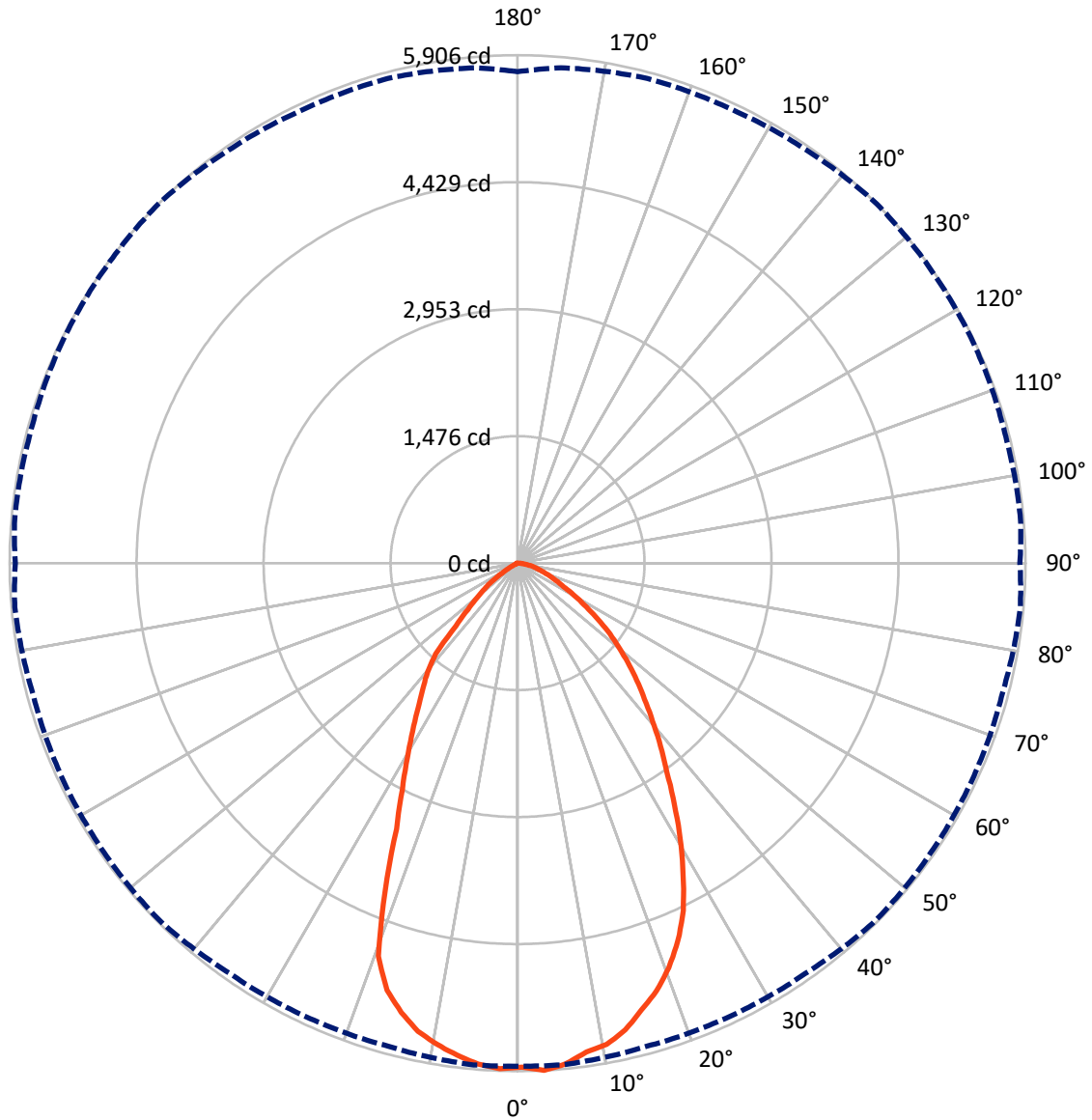
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.6 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	4559.7	0.0	4559.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3139.3	0.0	3139.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	7699.0	0.0	7699.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.5	7.1
10°-20°	1473.4	19.1
20°-30°	1796.9	23.3
30°-40°	1640.6	21.3
40°-50°	1185.6	15.4
50°-60°	647.4	8.4
60°-70°	267.7	3.5
70°-80°	108.4	1.4
80°-90°	29.5	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°	7699.0	100.0
0°-180°	7699.0	100.0



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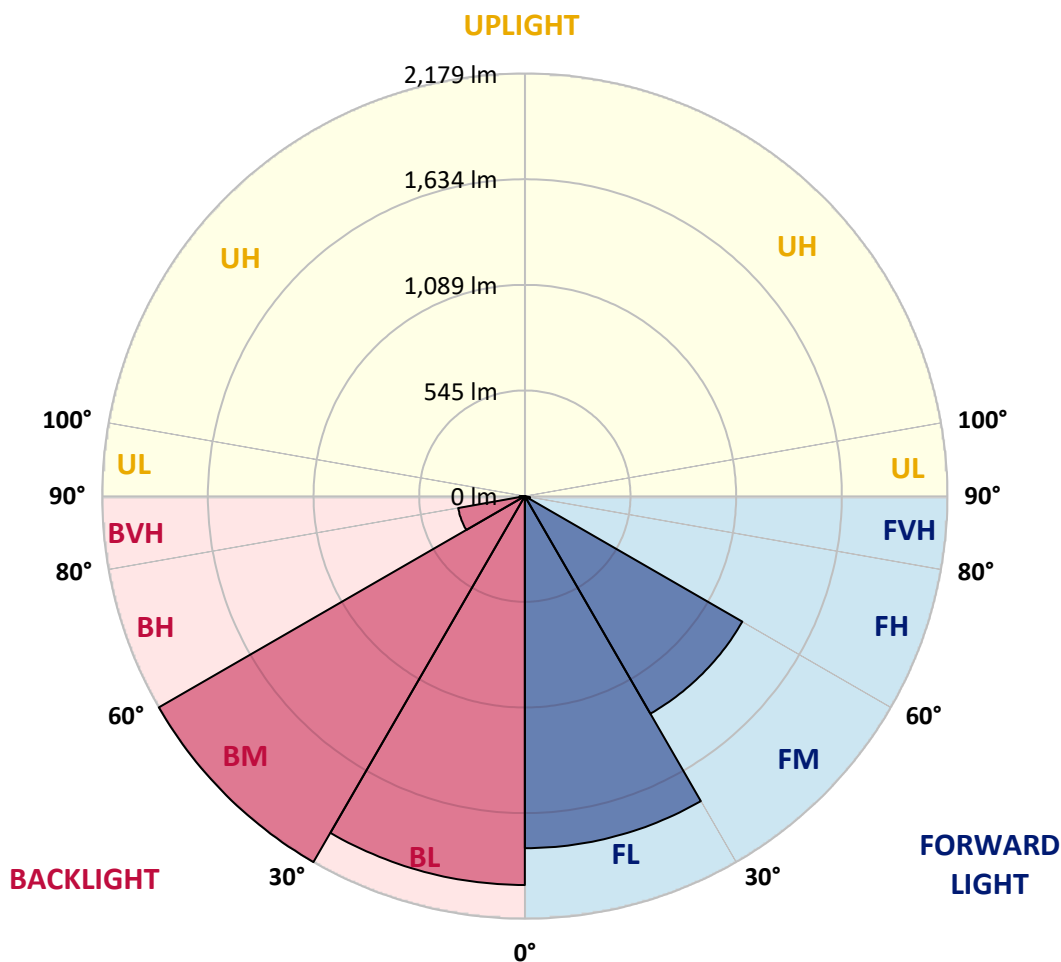
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.9	23.6			
FM (30°-60°)	1294.8	16.8			
FH (60°-80°)	27.1	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	2004.9	26.0	B3/2500		
BM (30°-60°)	2178.7	28.3	B2/2500		
BH (60°-80°)	348.9	4.5	B1/500		G1/500
BVH (80°-90°)	27.1	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°	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9
2.5°	5848.1	5855.7	5814.5	5818.8	5826.4	5881.7	5867.6	5854.6	5836.1	5867.6
5°	5840.5	5844.8	5801.4	5786.3	5792.8	5842.6	5797.1	5797.1	5792.8	5787.4
7.5°	5781.9	5784.1	5750.5	5723.4	5740.7	5763.5	5729.9	5746.2	5722.3	5740.7
10°	5694.1	5680.0	5639.9	5632.3	5651.8	5673.5	5650.7	5665.9	5644.2	5658.3
12.5°	5565.1	5543.4	5510.9	5501.1	5534.7	5564.0	5545.6	5536.9	5508.7	5543.4
15°	5067.5	5051.2	5124.9	5253.9	5369.9	5394.9	5375.4	5384.0	5325.5	5335.3
17.5°	4170.8	4140.5	4219.6	4525.4	4961.2	5191.1	5173.7	5117.3	5030.6	5050.1
20°	3790.3	3781.6	3772.9	3845.6	4150.2	4847.4	4871.2	4728.1	4604.5	4577.4
22.5°	3575.6	3572.4	3563.7	3580.0	3660.2	4108.0	4381.2	4248.9	4166.5	4158.9
25°	3379.4	3374.0	3347.9	3368.5	3368.5	3394.6	3744.8	3825.0	3752.3	3743.7
27.5°	3179.9	3170.1	3165.8	3175.6	3125.7	2950.1	3039.0	3430.3	3392.4	3394.6
30°	2964.1	2960.9	2949.0	2969.6	2815.6	2597.7	2541.3	3072.6	3080.2	3078.0
32.5°	2643.2	2657.3	2711.5	2734.3	2480.6	2300.6	2206.3	2658.4	2813.4	2810.2
35°	1920.1	1920.1	2096.8	2425.3	2173.8	2038.3	1987.3	2254.0	2550.0	2560.8
37.5°	1578.6	1584.0	1618.7	1768.3	1875.6	1827.9	1812.7	1897.3	2211.7	2229.1
40°	1420.3	1420.3	1420.3	1358.5	1355.2	1646.9	1638.2	1611.1	1910.3	1948.3
42.5°	1276.1	1279.3	1281.5	1125.4	1038.6	1423.5	1404.0	1362.8	1640.4	1684.8
45°	1127.5	1133.0	1139.5	941.1	903.1	1024.6	1188.3	1142.7	1373.7	1431.1
47.5°	688.5	697.1	844.6	798.0	802.3	790.4	969.3	961.7	1126.5	1207.8
50°	465.1	468.4	482.5	506.3	688.5	621.2	686.3	795.8	855.4	979.0
52.5°	390.3	395.7	361.0	328.5	452.1	485.7	479.2	590.9	614.7	767.6
55°	274.3	291.6	275.4	272.1	257.0	377.3	363.2	454.3	469.5	583.3
57.5°	28.2	32.5	56.4	202.7	168.0	213.6	259.1	332.8	348.0	430.4
60°	2.2	2.2	5.4	28.2	122.5	127.9	178.9	204.9	234.2	300.3
62.5°	0.0	1.1	2.2	4.3	19.5	68.3	90.0	107.3	140.9	194.1
65°	0.0	0.0	1.1	3.3	4.3	26.0	34.7	56.4	77.0	120.3
67.5°	0.0	0.0	1.1	2.2	3.3	6.5	11.9	20.6	41.2	68.3
70°	0.0	0.0	1.1	2.2	3.3	5.4	8.7	13.0	18.4	36.9
72.5°	0.0	0.0	1.1	1.1	2.2	5.4	6.5	8.7	13.0	18.4
75°	0.0	0.0	1.1	1.1	3.3	6.5	5.4	6.5	8.7	11.9
77.5°	0.0	0.0	1.1	2.2	3.3	6.5	5.4	6.5	6.5	7.6
80°	0.0	0.0	1.1	2.2	4.3	7.6	6.5	6.5	5.4	5.4
82.5°	0.0	0.0	1.1	3.3	4.3	9.8	9.8	8.7	4.3	3.3
85°	0.0	0.0	2.2	4.3	6.5	10.8	10.8	8.7	3.3	2.2
87.5°	0.0	0.0	2.2	3.3	5.4	7.6	10.8	8.7	3.3	1.1
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°
5858.9	0°	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9	5858.9
5840.5	2.5°	5869.8	5863.2	5884.9	5893.6	5905.5	5860.0	5831.8	5832.9	5780.8
5774.3	5°	5809.0	5810.1	5838.3	5836.1	5848.1	5823.1	5812.3	5793.9	5748.3
5690.9	7.5°	5732.1	5722.3	5749.4	5770.0	5739.6	5757.0	5732.1	5740.7	5713.6
5617.1	10°	5672.4	5649.7	5674.6	5688.7	5689.8	5672.4	5648.6	5625.8	5616.1
5502.2	12.5°	5540.2	5510.9	5553.2	5572.7	5569.4	5535.8	5508.7	5514.1	5482.7
5300.6	15°	5358.0	5359.1	5389.5	5407.9	5390.5	5383.0	5385.1	5372.1	5345.0
5021.9	17.5°	5079.4	5095.6	5175.9	5220.3	5230.1	5214.9	5207.3	5192.1	5165.0
4577.4	20°	4615.4	4712.9	4856.0	4993.7	5020.8	5016.5	4989.4	4982.9	4967.7
4137.2	22.5°	4207.7	4280.3	4446.2	4660.9	4771.5	4782.3	4749.8	4740.0	4723.8
3743.7	25°	3786.0	3864.0	4013.6	4246.7	4475.5	4522.1	4516.7	4487.4	4470.1
3394.6	27.5°	3430.3	3508.4	3643.9	3854.3	4099.3	4248.9	4263.0	4216.4	4215.3
3083.4	30°	3109.4	3216.8	3319.8	3491.1	3728.5	3952.9	3976.8	3944.2	3947.5
2798.3	32.5°	2857.9	2946.8	3034.6	3149.5	3346.9	3608.2	3701.4	3671.0	3659.1
2560.8	35°	2600.9	2661.7	2751.6	2856.8	2991.3	3250.4	3411.9	3389.1	3377.2
2239.9	37.5°	2308.2	2412.3	2477.4	2595.5	2700.7	2906.7	3134.4	3131.1	3106.2
1966.7	40°	2007.9	2117.4	2216.1	2335.3	2416.6	2580.3	2833.0	2831.9	2835.1
1683.7	42.5°	1735.8	1836.6	1955.9	2086.0	2164.0	2283.3	2554.3	2569.5	2587.9
1450.6	45°	1489.7	1580.7	1691.3	1849.6	1943.9	2012.2	2252.9	2322.3	2321.2
1242.5	47.5°	1268.5	1354.1	1447.4	1601.3	1721.7	1783.5	1983.0	2081.6	2075.1
1019.1	50°	1064.7	1140.6	1238.1	1349.8	1511.3	1565.6	1714.1	1844.2	1834.4
812.1	52.5°	856.5	961.7	1044.1	1146.0	1316.2	1369.3	1484.2	1611.1	1603.5
609.3	55°	667.9	769.8	869.5	957.3	1100.4	1179.6	1262.0	1392.1	1389.9
477.0	57.5°	505.2	616.9	711.2	794.7	908.5	1006.1	1072.3	1190.4	1205.6
326.3	60°	374.0	459.7	561.6	654.8	744.8	845.7	890.1	1006.1	1012.6
223.3	62.5°	254.8	349.1	448.9	533.4	600.6	704.7	744.8	840.2	852.2
143.1	65°	176.7	237.4	351.3	412.0	494.4	583.3	623.4	699.3	723.1
82.4	67.5°	117.1	169.1	274.3	329.6	410.9	471.6	522.6	584.4	610.4
52.0	70°	64.0	124.7	196.2	260.2	330.7	389.2	439.1	489.0	511.7
23.9	72.5°	43.4	83.5	136.6	206.0	266.7	324.2	368.6	405.5	406.6
14.1	75°	21.7	56.4	104.1	159.4	208.2	264.5	304.7	326.3	300.3
8.7	77.5°	13.0	41.2	84.6	127.9	169.1	213.6	236.4	248.3	206.0
6.5	80°	7.6	29.3	66.1	101.9	117.1	157.2	178.9	182.1	137.7
4.3	82.5°	5.4	21.7	52.0	74.8	71.6	110.6	134.4	130.1	87.8
3.3	85°	3.3	15.2	32.5	46.6	43.4	72.6	78.1	80.2	51.0
2.2	87.5°	2.2	8.7	17.3	24.9	20.6	31.4	31.4	37.9	24.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5858.9
5713.6
5737.5
5668.1
5572.7
5455.6
5317.9
5153.1
4933.0
4719.4
4451.6
4213.1
3931.2
3660.2
3361.0
3126.8
2835.1
2578.2
2323.4
2077.3
1843.1
1619.8
1395.3
1199.1
1022.4
854.3
717.7
607.1
503.1
396.8
280.8
198.4
129.0
81.3
46.6
21.7
0.0

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