

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: P637813

Luminaire Tested: **IFLD-S-SA2D-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637813
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11028.7 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

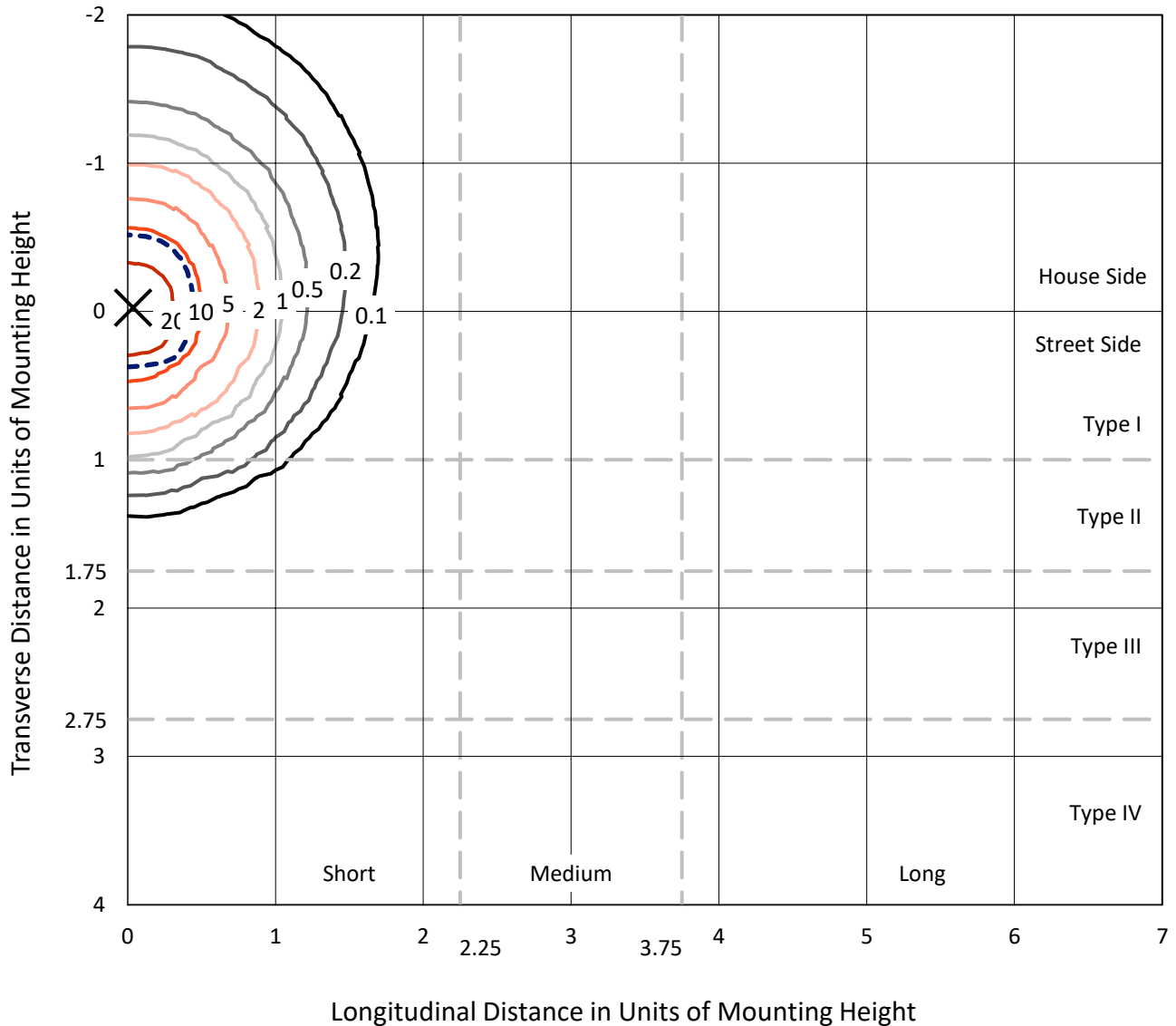
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

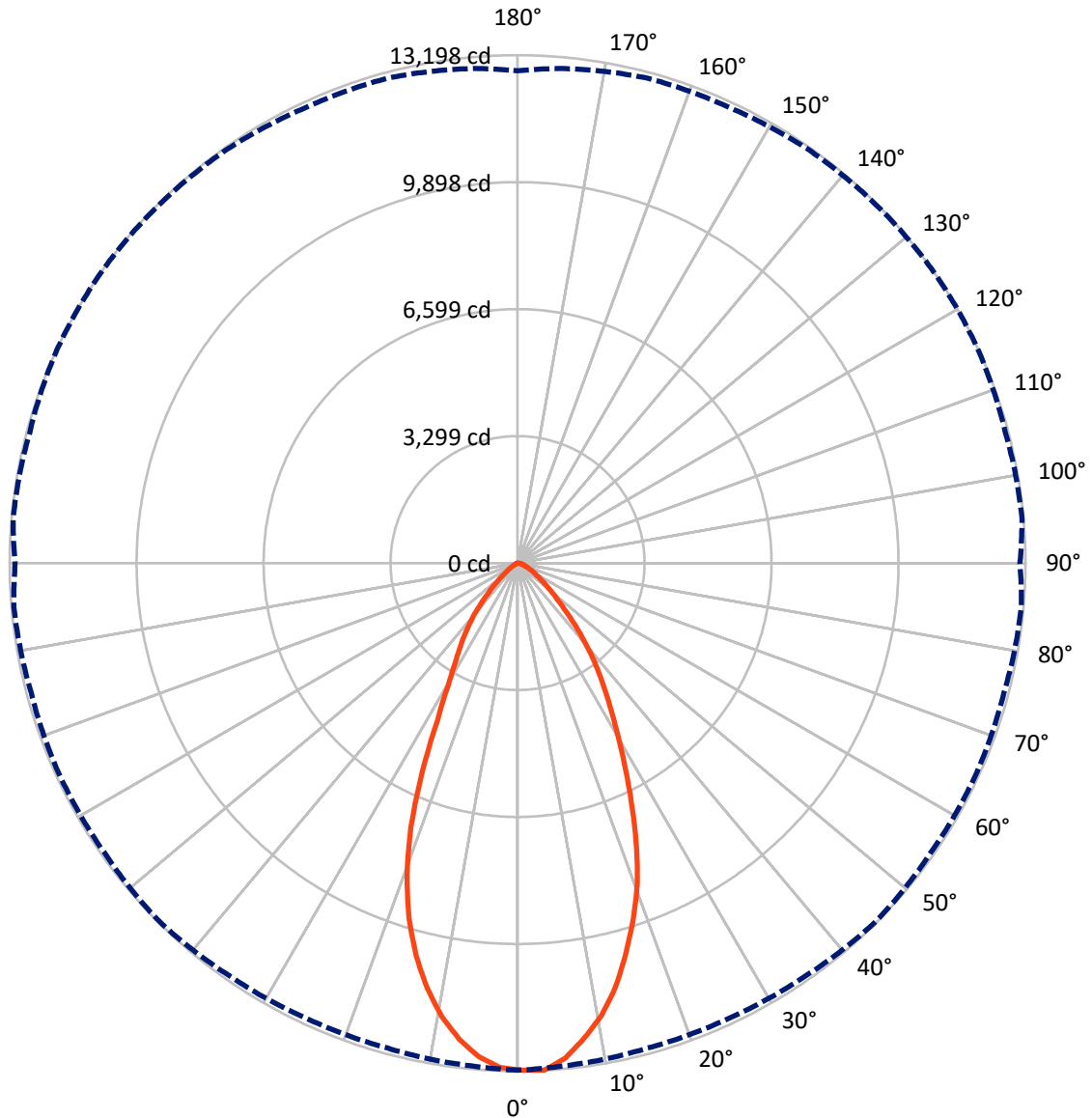
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6258.1	0.0	6258.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4770.6	0.0	4770.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	11028.7	0.0	11028.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1196.5	10.8
10°-20°	2852.1	25.9
20°-30°	2904.9	26.3
30°-40°	2166.1	19.6
40°-50°	1131.6	10.3
50°-60°	476.0	4.3
60°-70°	194.4	1.8
70°-80°	81.8	0.7
80°-90°	25.2	0.2
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°	11028.7	100.0
0°-180°	11028.7	100.0



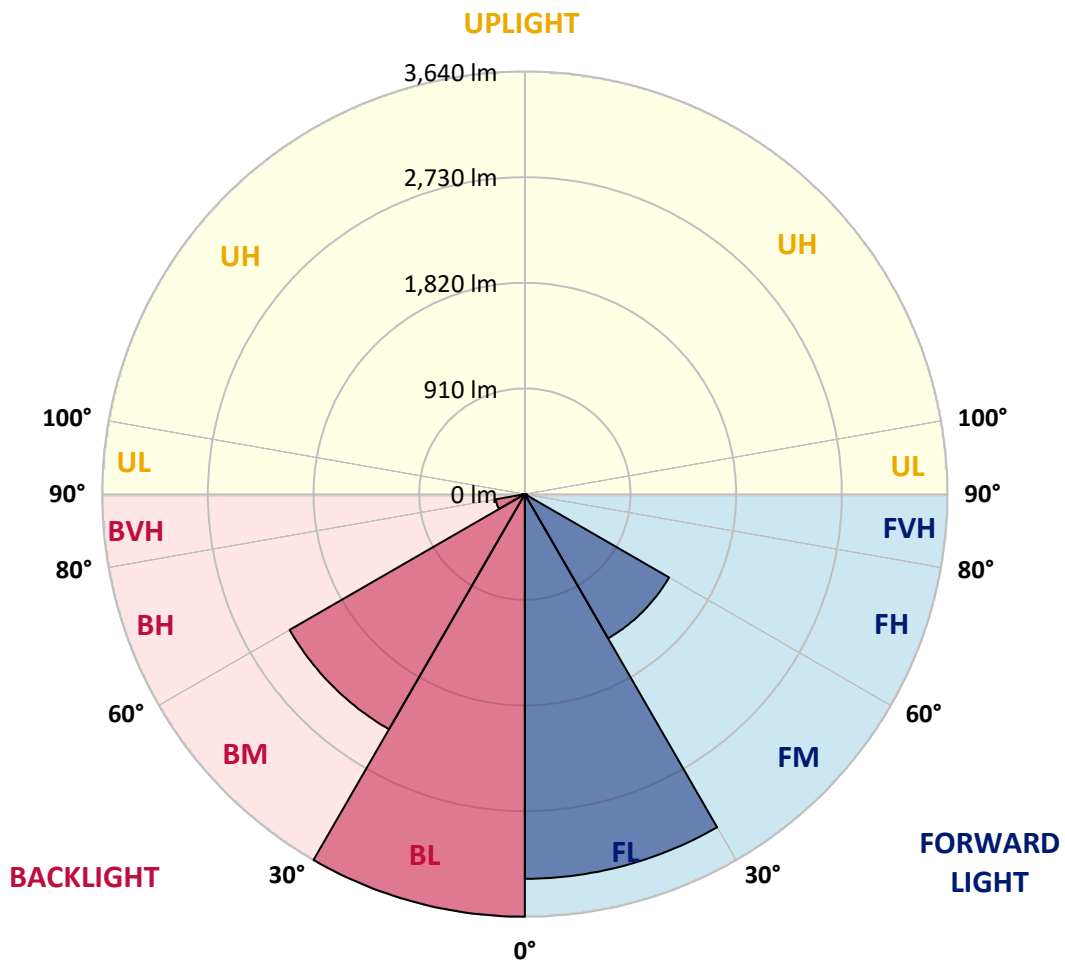
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3313.1	30.0			
FM (30°-60°)	1434.3	13.0			
FH (60°-80°)	20.8	0.2			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	3640.3	33.0	B4/5000		
BM (30°-60°)	2339.5	21.2	B2/2500		
BH (60°-80°)	255.5	2.3	B1/500		G1/500
BVH (80°-90°)	22.9	0.2			G1/100
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°	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6
2.5°	13178.0	13124.2	13047.7	13040.6	13080.2	13166.7	13111.4	13114.2	13080.2	13138.3
5°	12971.2	12920.2	12867.7	12798.3	12856.4	12893.2	12864.9	12833.7	12789.8	12846.5
7.5°	12580.1	12551.8	12473.9	12442.7	12478.1	12519.2	12458.3	12449.8	12388.9	12462.6
10°	11982.3	11971.0	11894.5	11876.1	11907.2	11969.6	11942.6	11937.0	11898.7	11891.6
12.5°	11361.8	11317.9	11223.0	11217.3	11264.0	11357.6	11285.3	11215.9	11237.1	11255.5
15°	9763.8	9717.0	9952.2	10322.0	10516.0	10509.0	10530.2	10446.6	10421.1	10429.6
17.5°	7762.0	7682.7	7767.7	8340.0	9262.3	9797.8	9650.4	9470.5	9374.2	9310.4
20°	6699.5	6703.7	6688.2	6835.5	7410.7	8631.9	8596.4	8249.3	8123.3	8070.8
22.5°	6053.5	6029.4	5995.4	6042.2	6196.6	6913.4	7393.7	7074.9	7031.0	6972.9
25°	5420.2	5420.2	5379.1	5425.9	5469.8	5479.7	5961.4	6091.7	6006.7	6006.7
27.5°	4872.0	4843.6	4825.2	4846.5	4788.4	4509.3	4570.2	5237.5	5179.4	5144.0
30°	4328.0	4319.5	4288.3	4316.6	4101.3	3786.8	3659.3	4420.1	4481.0	4468.2
32.5°	3572.9	3606.9	3745.7	3789.6	3421.3	3167.7	3045.9	3669.2	3912.9	3903.0
35°	2428.2	2456.5	2615.2	3139.4	2836.2	2654.9	2619.4	2918.4	3319.3	3357.5
37.5°	1933.8	1929.5	1974.9	2068.4	2279.4	2235.5	2225.6	2303.5	2707.3	2724.3
40°	1593.8	1588.1	1586.7	1510.2	1457.8	1858.7	1831.8	1785.0	2134.9	2168.9
42.5°	1284.9	1290.6	1294.8	1127.7	1051.2	1433.7	1418.1	1369.9	1674.5	1714.2
45°	1008.7	1007.3	1015.8	840.1	818.8	916.6	1059.7	1021.4	1263.7	1306.2
47.5°	522.8	541.2	655.9	650.3	660.2	650.3	801.8	791.9	950.6	1018.6
50°	351.3	357.0	366.9	368.3	519.9	478.8	544.0	616.3	665.8	770.7
52.5°	272.0	276.3	250.8	235.2	318.8	354.2	357.0	426.4	464.7	570.9
55°	151.6	170.0	182.8	184.2	175.7	262.1	260.7	315.9	345.7	416.5
57.5°	19.8	24.1	36.8	119.0	117.6	145.9	182.8	229.5	246.5	304.6
60°	1.4	2.8	4.3	18.4	77.9	85.0	124.7	143.1	171.4	213.9
62.5°	0.0	0.0	1.4	4.3	15.6	49.6	65.2	75.1	100.6	140.3
65°	0.0	0.0	1.4	2.8	5.7	18.4	25.5	41.1	59.5	86.4
67.5°	0.0	0.0	1.4	2.8	4.3	7.1	11.3	18.4	31.2	52.4
70°	0.0	0.0	1.4	2.8	4.3	5.7	8.5	11.3	17.0	28.3
72.5°	0.0	0.0	1.4	1.4	2.8	7.1	7.1	8.5	11.3	15.6
75°	0.0	0.0	1.4	2.8	4.3	7.1	7.1	7.1	8.5	9.9
77.5°	0.0	0.0	1.4	2.8	4.3	7.1	5.7	7.1	7.1	7.1
80°	0.0	0.0	1.4	2.8	4.3	7.1	8.5	7.1	5.7	5.7
82.5°	0.0	0.0	1.4	4.3	4.3	9.9	9.9	9.9	4.3	4.3
85°	0.0	0.0	2.8	4.3	7.1	11.3	11.3	8.5	4.3	2.8
87.5°	0.0	0.0	1.4	2.8	2.8	5.7	8.5	7.1	2.8	1.4
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°
13176.6	0°	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6	13176.6
13053.3	2.5°	13158.2	13122.7	13189.3	13197.8	13169.5	13134.1	13051.9	13044.8	12901.7
12764.3	5°	12908.8	12850.7	12893.2	12921.6	12911.7	12873.4	12839.4	12808.2	12679.3
12295.4	7.5°	12444.1	12422.9	12442.7	12464.0	12505.1	12464.0	12449.8	12417.2	12289.7
11833.6	10°	11928.5	11888.8	11963.9	11954.0	11942.6	11931.3	11871.8	11877.5	11727.3
11204.5	12.5°	11295.2	11228.6	11300.9	11309.4	11300.9	11261.2	11194.6	11223.0	11085.5
10354.5	15°	10443.8	10436.7	10489.1	10523.1	10547.2	10504.7	10482.0	10496.2	10414.0
9260.9	17.5°	9398.3	9490.4	9661.8	9719.9	9721.3	9765.2	9752.4	9735.4	9674.5
8049.6	20°	8168.6	8345.7	8609.2	8879.8	8957.7	8920.9	8903.9	8935.0	8844.4
6912.0	22.5°	7033.8	7185.4	7491.4	7886.7	8114.8	8137.4	8133.2	8106.3	8070.8
6001.1	25°	6070.5	6205.1	6498.3	6859.6	7297.3	7362.5	7365.3	7356.8	7325.7
5175.1	27.5°	5257.3	5420.2	5581.7	5904.7	6370.8	6640.0	6606.0	6596.1	6584.7
4478.1	30°	4520.6	4726.1	4877.6	5078.8	5496.7	5860.8	5896.2	5879.2	5852.3
3901.5	32.5°	3937.0	4058.8	4251.5	4387.5	4687.8	5100.1	5236.1	5223.3	5199.2
3381.6	35°	3429.8	3478.0	3629.5	3781.1	3980.9	4380.4	4581.6	4553.2	4549.0
2755.4	37.5°	2824.9	2986.4	3070.0	3223.0	3363.2	3673.5	3951.1	3938.4	3939.8
2215.7	40°	2280.9	2374.4	2540.1	2669.0	2797.9	3024.6	3333.5	3342.0	3339.1
1715.6	42.5°	1751.0	1841.7	2015.9	2156.2	2270.9	2411.2	2705.9	2715.8	2728.5
1335.9	45°	1367.1	1425.2	1552.7	1698.6	1820.4	1905.4	2129.3	2193.0	2194.4
1035.6	47.5°	1061.1	1127.7	1218.3	1358.6	1477.6	1538.5	1701.4	1787.9	1783.6
794.8	50°	833.0	893.9	967.6	1078.1	1207.0	1255.2	1375.6	1460.6	1456.4
599.3	52.5°	637.5	715.4	780.6	865.6	991.7	1032.8	1119.2	1216.9	1202.8
439.2	55°	483.1	562.4	623.3	694.2	808.9	861.3	920.8	998.8	1001.6
340.0	57.5°	364.1	446.3	501.5	573.8	660.2	718.3	763.6	847.2	845.8
232.3	60°	260.7	331.5	398.1	473.2	539.8	606.3	637.5	716.8	719.7
164.3	62.5°	188.4	255.0	318.8	383.9	443.4	508.6	536.9	599.3	607.8
107.7	65°	131.8	178.5	252.2	301.8	368.3	416.5	453.3	507.2	517.1
63.8	67.5°	85.0	128.9	199.8	243.7	304.6	345.7	383.9	426.4	439.2
41.1	70°	51.0	97.8	148.8	195.5	250.8	287.6	324.4	361.3	368.3
19.8	72.5°	32.6	68.0	107.7	158.7	201.2	240.8	273.4	300.3	279.1
12.8	75°	18.4	46.8	85.0	124.7	162.9	201.2	228.1	242.3	194.1
8.5	77.5°	11.3	34.0	69.4	100.6	126.1	161.5	178.5	187.0	138.8
5.7	80°	7.1	25.5	58.1	82.2	82.2	119.0	138.8	145.9	100.6
4.3	82.5°	5.7	18.4	45.3	62.3	55.3	89.3	109.1	110.5	70.8
2.8	85°	4.3	14.2	28.3	41.1	38.3	62.3	63.8	70.8	46.8
2.8	87.5°	2.8	8.5	17.0	24.1	21.3	29.8	34.0	38.3	25.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13176.6
12789.8
12575.9
12262.8
11676.3
11045.9
10314.9
9583.9
8779.2
8002.8
7220.8
6518.2
5818.3
5135.5
4502.2
3894.5
3289.5
2686.0
2157.6
1768.0
1456.4
1204.2
1001.6
842.9
712.6
604.9
514.3
437.8
362.7
259.3
184.2
130.3
93.5
65.2
42.5
22.7
0.0

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