

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: P637827

Luminaire Tested: **IFLD-M-SA4C-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20049.4 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

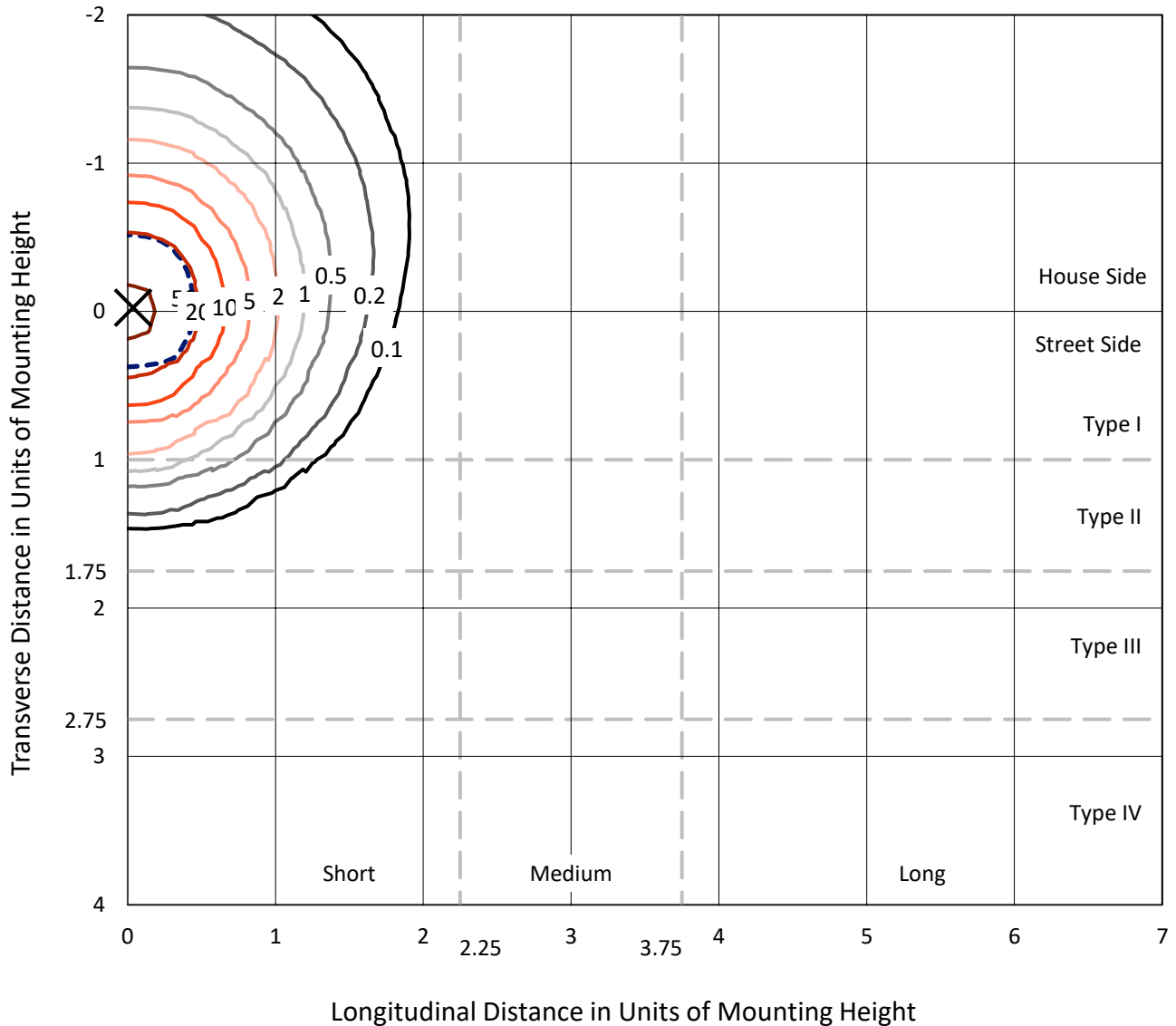
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

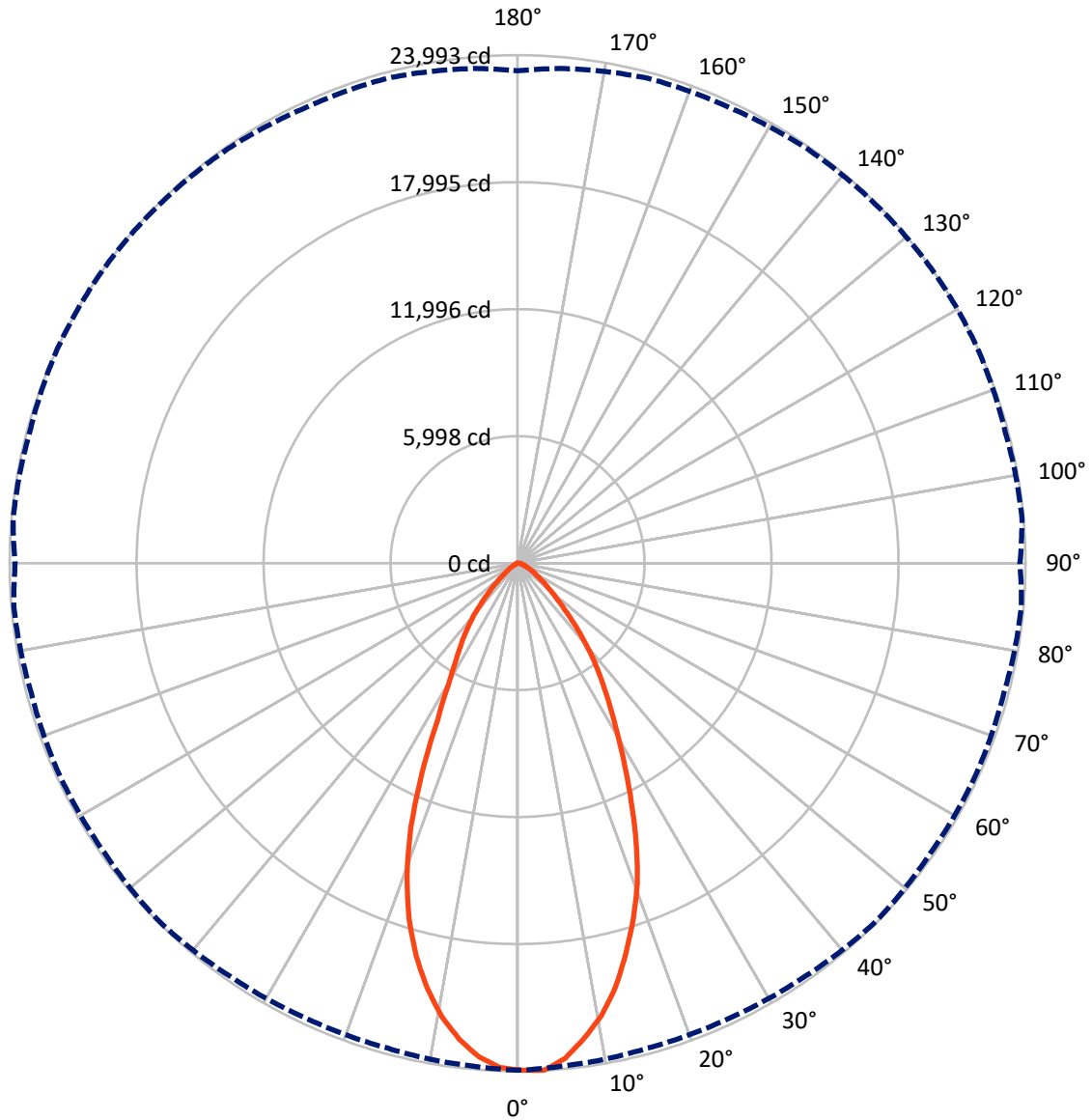
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.9 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	11376.8	0.0	11376.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8672.6	0.0	8672.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	20049.4	0.0	20049.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2175.1	10.8
10°-20°	5185.0	25.9
20°-30°	5280.9	26.3
30°-40°	3937.9	19.6
40°-50°	2057.3	10.3
50°-60°	865.3	4.3
60°-70°	353.4	1.8
70°-80°	148.7	0.7
80°-90°	45.8	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°	20049.4	100.0
0°-180°	20049.4	100.0



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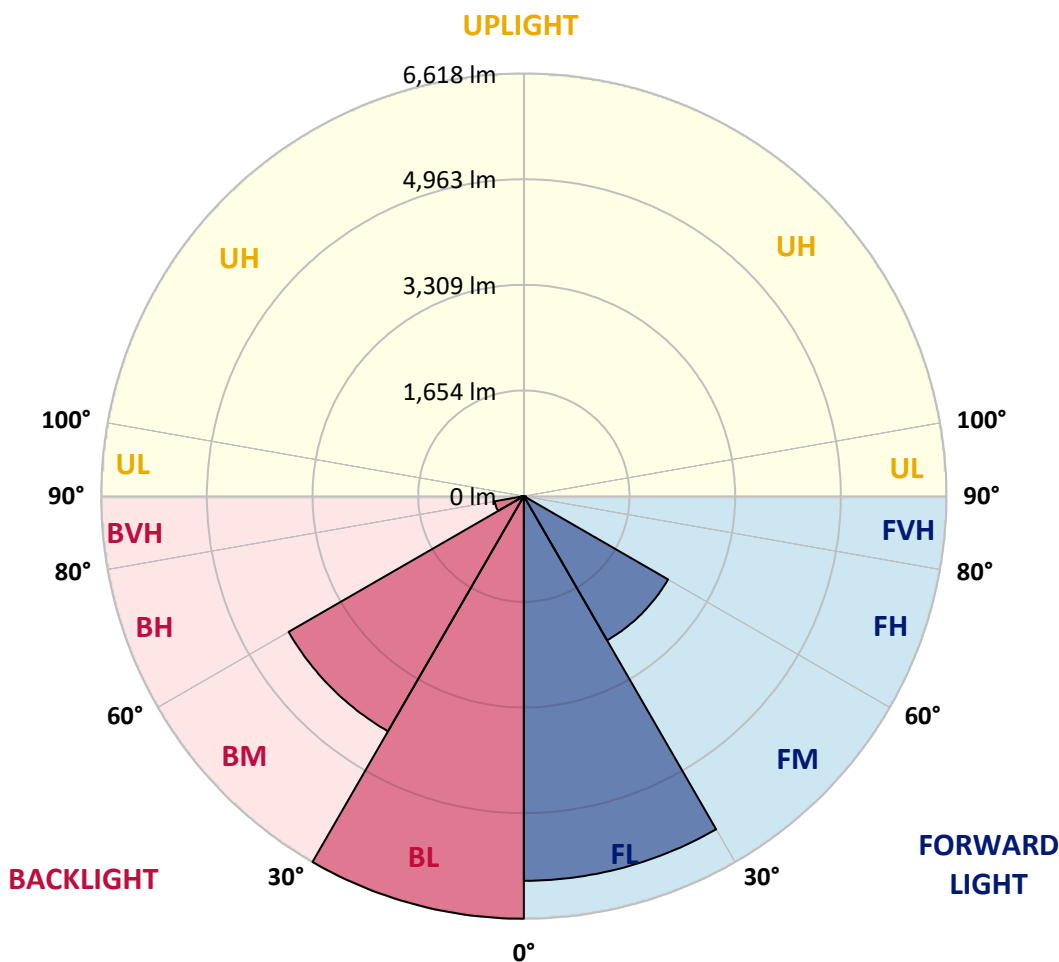
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6023.1	30.0			
FM (30°-60°)	2607.5	13.0			
FH (60°-80°)	37.7	0.2			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	6617.9	33.0	B5		
BM (30°-60°)	4253.0	21.2	B3/5000		
BH (60°-80°)	464.4	2.3	B1/500		G1/500
BVH (80°-90°)	41.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2
2.5°	23956.8	23858.9	23719.8	23706.9	23779.1	23936.2	23835.7	23840.9	23779.1	23884.7
5°	23580.8	23488.0	23392.7	23266.5	23372.1	23439.1	23387.6	23330.9	23251.1	23354.1
7.5°	22869.9	22818.4	22676.8	22620.1	22684.5	22759.2	22648.4	22633.0	22522.2	22656.2
10°	21783.1	21762.5	21623.4	21589.9	21646.6	21759.9	21711.0	21700.7	21631.1	21618.3
12.5°	20655.0	20575.2	20402.7	20392.4	20477.3	20647.3	20516.0	20389.8	20428.4	20461.9
15°	17749.9	17665.0	18092.5	18764.7	19117.5	19104.6	19143.3	18991.3	18945.0	18960.4
17.5°	14110.8	13966.6	14121.2	15161.6	16838.2	17811.8	17543.9	17216.8	17041.7	16925.8
20°	12179.3	12187.0	12158.7	12426.5	13472.1	15692.2	15627.8	14996.8	14767.6	14672.3
22.5°	11004.9	10961.1	10899.3	10984.3	11265.0	12568.2	13441.2	12861.8	12781.9	12676.3
25°	9853.6	9853.6	9779.0	9863.9	9943.8	9961.8	10837.5	11074.4	10919.9	10919.9
27.5°	8856.9	8805.4	8772.0	8810.6	8705.0	8197.6	8308.4	9521.4	9415.8	9351.4
30°	7868.0	7852.5	7795.9	7847.4	7455.9	6884.2	6652.4	8035.4	8146.1	8122.9
32.5°	6495.3	6557.1	6809.5	6889.3	6219.7	5758.7	5537.2	6670.4	7113.4	7095.3
35°	4414.3	4465.8	4754.3	5707.2	5156.0	4826.4	4762.0	5305.4	6034.3	6103.8
37.5°	3515.5	3507.8	3590.2	3760.1	4143.9	4064.0	4046.0	4187.7	4921.7	4952.6
40°	2897.4	2887.1	2884.5	2745.4	2650.1	3379.0	3330.0	3245.1	3881.2	3943.0
42.5°	2335.9	2346.2	2354.0	2050.1	1911.0	2606.3	2578.0	2490.5	3044.2	3116.3
45°	1833.7	1831.1	1846.6	1527.2	1488.6	1666.3	1926.4	1856.9	2297.3	2374.6
47.5°	950.3	983.8	1192.4	1182.1	1200.2	1182.1	1457.7	1439.7	1728.1	1851.7
50°	638.7	649.0	667.0	669.6	945.2	870.5	989.0	1120.3	1210.5	1401.0
52.5°	494.5	502.2	455.9	427.5	579.5	643.9	649.0	775.2	844.7	1037.9
55°	275.6	309.1	332.2	334.8	319.4	476.5	473.9	574.3	628.4	757.2
57.5°	36.1	43.8	67.0	216.3	213.8	265.3	332.2	417.2	448.1	553.7
60°	2.6	5.2	7.7	33.5	141.6	154.5	226.6	260.1	311.6	388.9
62.5°	0.0	0.0	2.6	7.7	28.3	90.1	118.5	136.5	182.9	255.0
65°	0.0	0.0	2.6	5.2	10.3	33.5	46.4	74.7	108.2	157.1
67.5°	0.0	0.0	2.6	5.2	7.7	12.9	20.6	33.5	56.7	95.3
70°	0.0	0.0	2.6	5.2	7.7	10.3	15.5	20.6	30.9	51.5
72.5°	0.0	0.0	2.6	2.6	5.2	12.9	12.9	15.5	20.6	28.3
75°	0.0	0.0	2.6	5.2	7.7	12.9	12.9	12.9	15.5	18.0
77.5°	0.0	0.0	2.6	5.2	7.7	12.9	10.3	12.9	12.9	12.9
80°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	12.9	10.3	10.3
82.5°	0.0	0.0	2.6	7.7	7.7	18.0	18.0	18.0	7.7	7.7
85°	0.0	0.0	5.2	7.7	12.9	20.6	20.6	15.5	7.7	5.2
87.5°	0.0	0.0	2.6	5.2	5.2	10.3	15.5	12.9	5.2	2.6
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°
23954.2	0°	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2	23954.2
23730.1	2.5°	23920.7	23856.3	23977.4	23992.8	23941.3	23876.9	23727.6	23714.7	23454.6
23204.7	5°	23467.4	23361.8	23439.1	23490.6	23472.6	23403.0	23341.2	23284.6	23050.2
22352.3	7.5°	22622.7	22584.1	22620.1	22658.7	22733.4	22658.7	22633.0	22573.8	22342.0
21512.7	10°	21685.2	21613.1	21749.6	21731.6	21711.0	21690.4	21582.2	21592.5	21319.5
20369.2	12.5°	20534.0	20413.0	20544.3	20559.8	20544.3	20472.2	20351.1	20402.7	20152.8
18823.9	15°	18986.2	18973.3	19068.6	19130.4	19174.2	19096.9	19055.7	19081.5	18932.1
16835.7	17.5°	17085.5	17252.9	17564.5	17670.1	17672.7	17752.5	17729.3	17698.4	17587.7
14633.7	20°	14850.0	15171.9	15651.0	16142.9	16284.5	16217.6	16186.7	16243.3	16078.5
12565.6	22.5°	12787.1	13062.6	13618.9	14337.5	14752.1	14793.3	14785.6	14736.7	14672.3
10909.6	25°	11035.8	11280.4	11813.6	12470.3	13266.1	13384.6	13389.7	13374.3	13317.6
9408.1	27.5°	9557.5	9853.6	10147.2	10734.4	11581.8	12071.1	12009.3	11991.3	11970.7
8141.0	30°	8218.2	8591.7	8867.2	9233.0	9992.7	10654.6	10719.0	10688.1	10639.2
7092.8	32.5°	7157.2	7378.6	7728.9	7976.1	8522.1	9271.6	9518.8	9495.7	9451.9
6147.6	35°	6235.1	6322.7	6598.3	6873.9	7237.0	7963.3	8329.0	8277.5	8269.7
5009.2	37.5°	5135.4	5429.0	5581.0	5859.1	6114.1	6678.1	7182.9	7159.7	7162.3
4028.0	40°	4146.5	4316.4	4617.8	4852.1	5086.5	5498.6	6060.0	6075.5	6070.3
3118.9	42.5°	3183.2	3348.1	3664.9	3919.8	4128.4	4383.4	4919.1	4937.1	4960.3
2428.6	45°	2485.3	2590.9	2822.7	3088.0	3309.4	3464.0	3870.9	3986.8	3989.4
1882.6	47.5°	1929.0	2050.1	2214.9	2469.8	2686.2	2796.9	3093.1	3250.2	3242.5
1444.8	50°	1514.4	1625.1	1759.0	1959.9	2194.3	2281.8	2500.8	2655.3	2647.6
1089.4	52.5°	1158.9	1300.6	1419.1	1573.6	1802.8	1877.5	2034.6	2212.3	2186.6
798.4	55°	878.2	1022.5	1133.2	1262.0	1470.6	1565.9	1674.0	1815.7	1820.8
618.1	57.5°	661.9	811.3	911.7	1043.1	1200.2	1305.7	1388.2	1540.1	1537.5
422.4	60°	473.9	602.7	723.7	860.2	981.2	1102.3	1158.9	1303.2	1308.3
298.8	62.5°	342.5	463.6	579.5	697.9	806.1	924.6	976.1	1089.4	1104.9
195.7	65°	239.5	324.5	458.4	548.6	669.6	757.2	824.1	922.0	940.0
115.9	67.5°	154.5	234.4	363.1	443.0	553.7	628.4	697.9	775.2	798.4
74.7	70°	92.7	177.7	270.4	355.4	455.9	522.8	589.8	656.7	669.6
36.1	72.5°	59.2	123.6	195.7	288.4	365.7	437.8	497.1	546.0	507.4
23.2	75°	33.5	85.0	154.5	226.6	296.2	365.7	414.6	440.4	352.8
15.5	77.5°	20.6	61.8	126.2	182.9	229.2	293.6	324.5	340.0	252.4
10.3	80°	12.9	46.4	105.6	149.4	149.4	216.3	252.4	265.3	182.9
7.7	82.5°	10.3	33.5	82.4	113.3	100.4	162.3	198.3	200.9	128.8
5.2	85°	7.7	25.8	51.5	74.7	69.5	113.3	115.9	128.8	85.0
5.2	87.5°	5.2	15.5	30.9	43.8	38.6	54.1	61.8	69.5	46.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23954.2
23251.1
22862.2
22293.0
21226.8
20080.7
18751.8
17422.9
15960.0
14548.7
13127.0
11849.6
10577.3
9336.0
8184.8
7079.9
5980.2
4883.0
3922.4
3214.2
2647.6
2189.1
1820.8
1532.4
1295.4
1099.7
934.9
795.8
659.3
471.3
334.8
236.9
170.0
118.5
77.3
41.2
0.0

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