

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: P637816

Luminaire Tested: **IFLD-S-SA3B-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11999.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

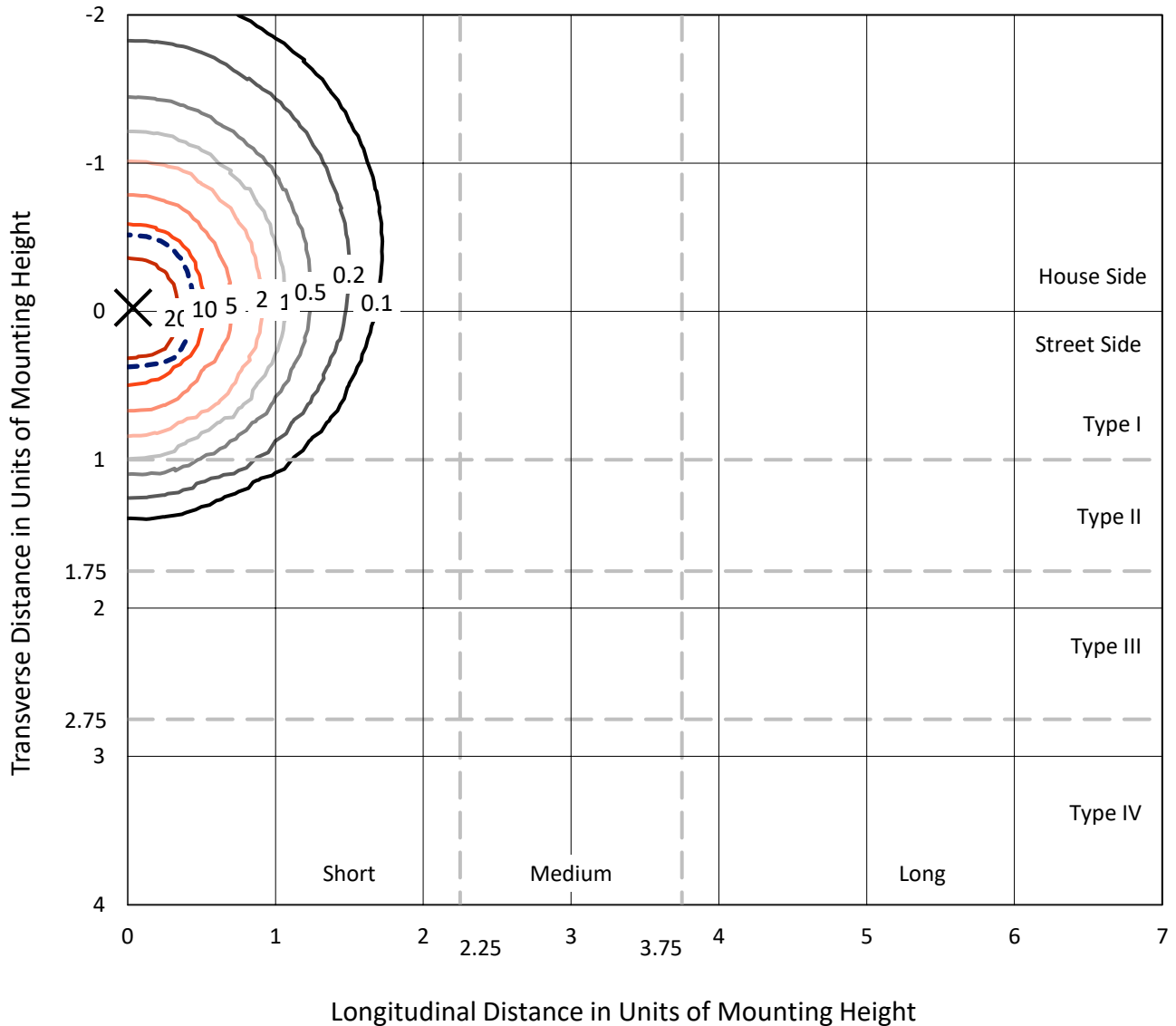
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

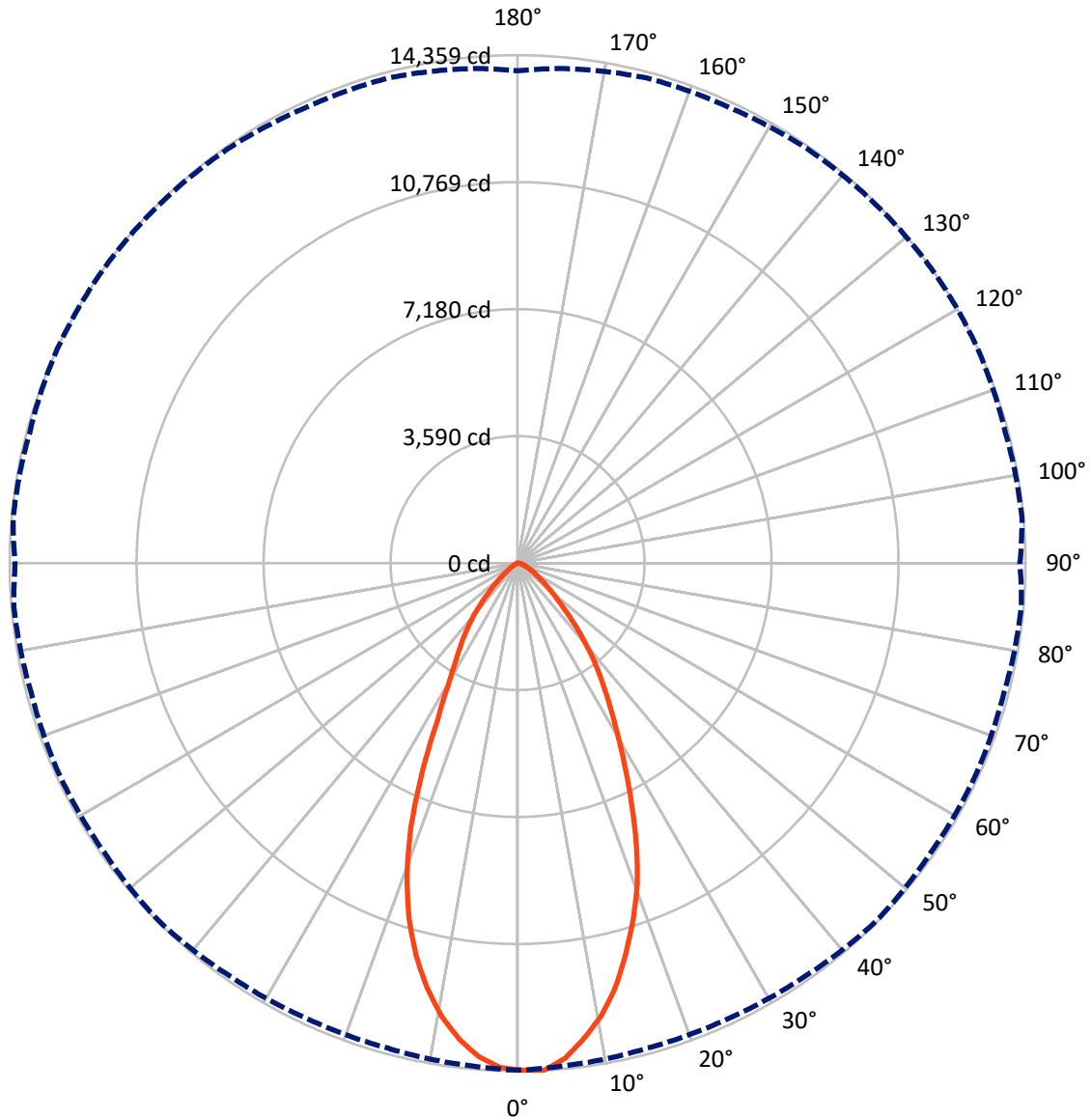
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.8 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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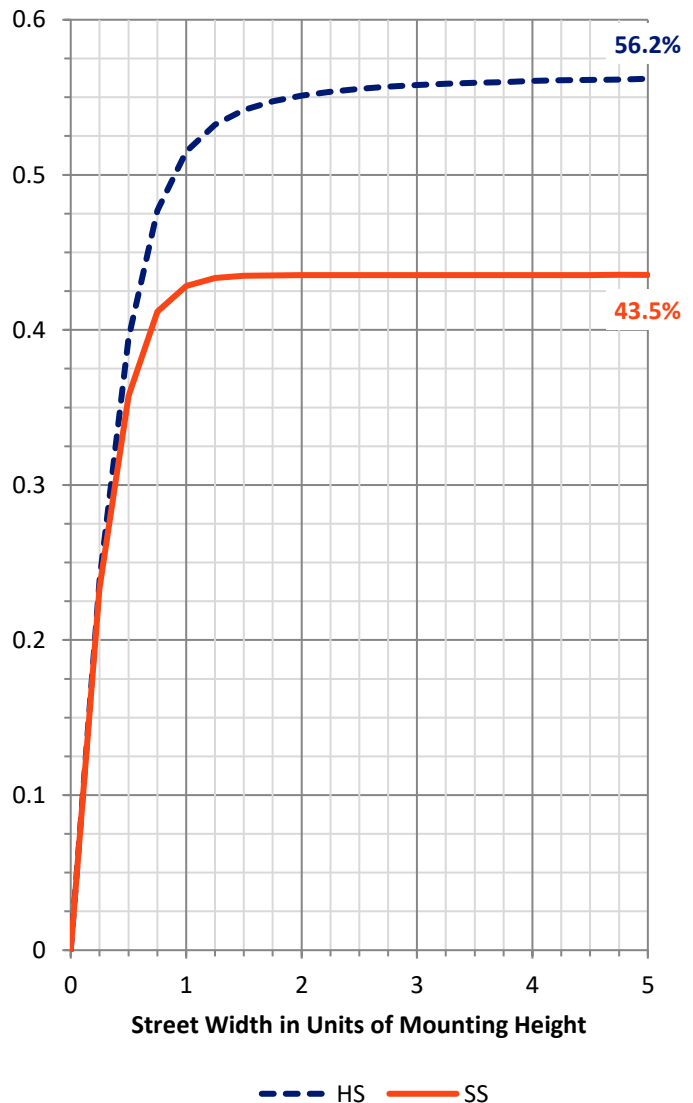
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6808.8	0.0	6808.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5190.4	0.0	5190.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	11999.2	0.0	11999.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1301.8	10.8
10°-20°	3103.1	25.9
20°-30°	3160.5	26.3
30°-40°	2356.8	19.6
40°-50°	1231.2	10.3
50°-60°	517.9	4.3
60°-70°	211.5	1.8
70°-80°	89.0	0.7
80°-90°	27.4	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°	11999.2	100.0
0°-180°	11999.2	100.0



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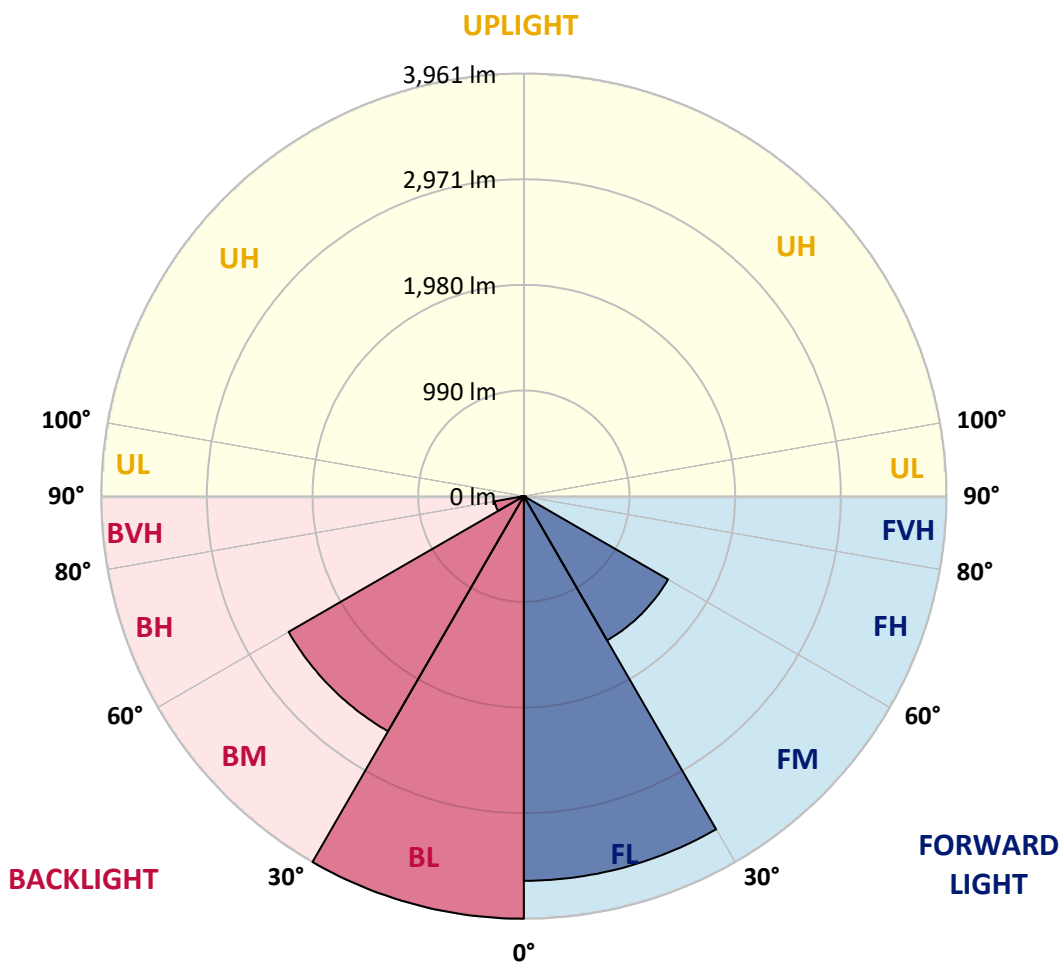
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.7	30.0			
FM (30°-60°)	1560.5	13.0			
FH (60°-80°)	22.6	0.2			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	3960.7	33.0	B4/5000		
BM (30°-60°)	2545.3	21.2	B3/5000		
BH (60°-80°)	277.9	2.3	B1/500		G1/500
BVH (80°-90°)	24.9	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°	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2
2.5°	14337.7	14279.1	14195.9	14188.2	14231.4	14325.4	14265.3	14268.3	14231.4	14294.5
5°	14112.7	14057.2	14000.1	13924.6	13987.8	14027.9	13997.1	13963.2	13915.4	13977.0
7.5°	13687.3	13656.4	13571.7	13537.7	13576.3	13621.0	13554.7	13545.4	13479.2	13559.3
10°	13036.8	13024.5	12941.2	12921.2	12955.1	13022.9	12993.6	12987.5	12945.9	12938.2
12.5°	12361.7	12313.9	12210.6	12204.5	12255.3	12357.1	12278.5	12202.9	12226.0	12246.1
15°	10623.0	10572.2	10828.0	11230.3	11441.5	11433.8	11456.9	11366.0	11338.2	11347.5
17.5°	8445.1	8358.8	8451.3	9074.0	10077.4	10660.0	10499.7	10304.0	10199.2	10129.8
20°	7289.1	7293.7	7276.7	7437.0	8062.8	9391.5	9353.0	8975.3	8838.1	8781.1
22.5°	6586.2	6560.0	6523.0	6573.9	6741.9	7521.8	8044.3	7697.5	7649.8	7586.6
25°	5897.2	5897.2	5852.5	5903.4	5951.2	5962.0	6486.0	6627.8	6535.4	6535.4
27.5°	5300.7	5269.9	5249.9	5273.0	5209.8	4906.1	4972.4	5698.4	5635.2	5596.7
30°	4708.8	4699.6	4665.7	4696.5	4462.2	4120.0	3981.3	4809.0	4875.3	4861.4
32.5°	3887.3	3924.3	4075.3	4123.1	3722.4	3446.5	3313.9	3992.1	4257.2	4246.4
35°	2641.9	2672.7	2845.3	3415.6	3085.8	2888.5	2850.0	3175.2	3611.4	3653.0
37.5°	2104.0	2099.3	2148.7	2250.4	2480.0	2432.3	2421.5	2506.2	2945.5	2964.0
40°	1734.0	1727.9	1726.3	1643.1	1586.1	2022.3	1993.0	1942.1	2322.8	2359.8
42.5°	1398.0	1404.2	1408.8	1226.9	1143.7	1559.9	1542.9	1490.5	1821.9	1865.0
45°	1097.4	1095.9	1105.2	914.0	890.9	997.3	1152.9	1111.3	1374.9	1421.1
47.5°	568.8	588.8	713.6	707.5	718.3	707.5	872.4	861.6	1034.3	1108.2
50°	382.3	388.4	399.2	400.8	565.7	521.0	591.9	670.5	724.4	838.5
52.5°	295.9	300.6	272.8	255.9	346.8	385.3	388.4	463.9	505.6	621.2
55°	164.9	185.0	198.8	200.4	191.1	285.2	283.6	343.7	376.1	453.2
57.5°	21.6	26.2	40.1	129.5	127.9	158.8	198.8	249.7	268.2	331.4
60°	1.5	3.1	4.6	20.0	84.8	92.5	135.6	155.7	186.5	232.7
62.5°	0.0	0.0	1.5	4.6	17.0	53.9	70.9	81.7	109.4	152.6
65°	0.0	0.0	1.5	3.1	6.2	20.0	27.7	44.7	64.7	94.0
67.5°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	20.0	33.9	57.0
70°	0.0	0.0	1.5	3.1	4.6	6.2	9.2	12.3	18.5	30.8
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	7.7	9.2	12.3	17.0
75°	0.0	0.0	1.5	3.1	4.6	7.7	7.7	7.7	9.2	10.8
77.5°	0.0	0.0	1.5	3.1	4.6	7.7	6.2	7.7	7.7	7.7
80°	0.0	0.0	1.5	3.1	4.6	7.7	9.2	7.7	6.2	6.2
82.5°	0.0	0.0	1.5	4.6	4.6	10.8	10.8	10.8	4.6	4.6
85°	0.0	0.0	3.1	4.6	7.7	12.3	12.3	9.2	4.6	3.1
87.5°	0.0	0.0	1.5	3.1	3.1	6.2	9.2	7.7	3.1	1.5
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°
14336.2	0°	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2	14336.2
14202.1	2.5°	14316.1	14277.6	14350.0	14359.3	14328.5	14289.9	14200.5	14192.8	14037.1
13887.6	5°	14044.8	13981.7	14027.9	14058.7	14047.9	14006.3	13969.3	13935.4	13795.1
13377.4	7.5°	13539.3	13516.2	13537.7	13560.9	13605.6	13560.9	13545.4	13510.0	13371.3
12875.0	10°	12978.2	12935.1	13016.8	13006.0	12993.6	12981.3	12916.6	12922.7	12759.4
12190.6	12.5°	12289.2	12216.8	12295.4	12304.7	12295.4	12252.2	12179.8	12210.6	12061.1
11265.8	15°	11362.9	11355.2	11412.2	11449.2	11475.4	11429.2	11404.5	11419.9	11330.5
10075.9	17.5°	10225.4	10325.6	10512.1	10575.3	10576.8	10624.6	10610.7	10592.2	10525.9
8758.0	20°	8887.5	9080.1	9366.8	9661.2	9746.0	9705.9	9687.4	9721.3	9622.7
7520.3	22.5°	7652.8	7817.8	8150.7	8580.7	8828.9	8853.6	8848.9	8819.6	8781.1
6529.2	25°	6604.7	6751.1	7070.2	7463.3	7939.5	8010.4	8013.5	8004.3	7970.4
5630.6	27.5°	5720.0	5897.2	6072.9	6424.4	6931.5	7224.3	7187.3	7176.6	7164.2
4872.2	30°	4918.5	5142.0	5306.9	5525.8	5980.5	6376.6	6415.1	6396.6	6367.3
4244.9	32.5°	4283.4	4416.0	4625.6	4773.6	5100.4	5548.9	5696.9	5683.0	5656.8
3679.2	35°	3731.6	3784.0	3949.0	4113.9	4331.2	4765.9	4984.7	4953.9	4949.3
2997.9	37.5°	3073.5	3249.2	3340.1	3506.6	3659.2	3996.7	4298.8	4285.0	4286.5
2410.7	40°	2481.6	2583.3	2763.7	2903.9	3044.2	3290.8	3626.8	3636.1	3633.0
1866.6	42.5°	1905.1	2003.8	2193.4	2345.9	2470.8	2623.4	2944.0	2954.8	2968.7
1453.5	45°	1487.4	1550.6	1689.3	1848.1	1980.6	2073.1	2316.7	2386.0	2387.6
1126.7	47.5°	1154.5	1226.9	1325.6	1478.2	1607.6	1673.9	1851.2	1945.2	1940.6
864.7	50°	906.3	972.6	1052.7	1173.0	1313.2	1365.6	1496.7	1589.1	1584.5
652.0	52.5°	693.6	778.4	849.3	941.8	1079.0	1123.6	1217.7	1324.0	1308.6
477.8	55°	525.6	611.9	678.2	755.3	880.1	937.1	1001.9	1086.7	1089.7
369.9	57.5°	396.1	485.5	545.6	624.2	718.3	781.5	830.8	921.7	920.2
252.8	60°	283.6	360.7	433.1	514.8	587.3	659.7	693.6	779.9	783.0
178.8	62.5°	205.0	277.4	346.8	417.7	482.4	553.3	584.2	652.0	661.2
117.1	65°	143.3	194.2	274.4	328.3	400.8	453.2	493.2	551.8	562.6
69.4	67.5°	92.5	140.3	217.3	265.1	331.4	376.1	417.7	463.9	477.8
44.7	70°	55.5	106.4	161.8	212.7	272.8	312.9	353.0	393.0	400.8
21.6	72.5°	35.5	74.0	117.1	172.6	218.9	262.0	297.5	326.8	303.6
13.9	75°	20.0	50.9	92.5	135.6	177.3	218.9	248.2	263.6	211.2
9.2	77.5°	12.3	37.0	75.5	109.4	137.2	175.7	194.2	203.5	151.1
6.2	80°	7.7	27.7	63.2	89.4	89.4	129.5	151.1	158.8	109.4
4.6	82.5°	6.2	20.0	49.3	67.8	60.1	97.1	118.7	120.2	77.1
3.1	85°	4.6	15.4	30.8	44.7	41.6	67.8	69.4	77.1	50.9
3.1	87.5°	3.1	9.2	18.5	26.2	23.1	32.4	37.0	41.6	27.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14336.2
13915.4
13682.6
13342.0
12703.9
12018.0
11222.6
10427.3
9551.8
8707.1
7856.3
7091.8
6330.4
5587.4
4898.4
4237.2
3579.0
2922.4
2347.5
1923.6
1584.5
1310.2
1089.7
917.1
775.3
658.2
559.5
476.3
394.6
282.1
200.4
141.8
101.7
70.9
46.2
24.7
0.0

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