

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: P636799

Luminaire Tested: **IFLD-S-SA2E-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10059.8 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

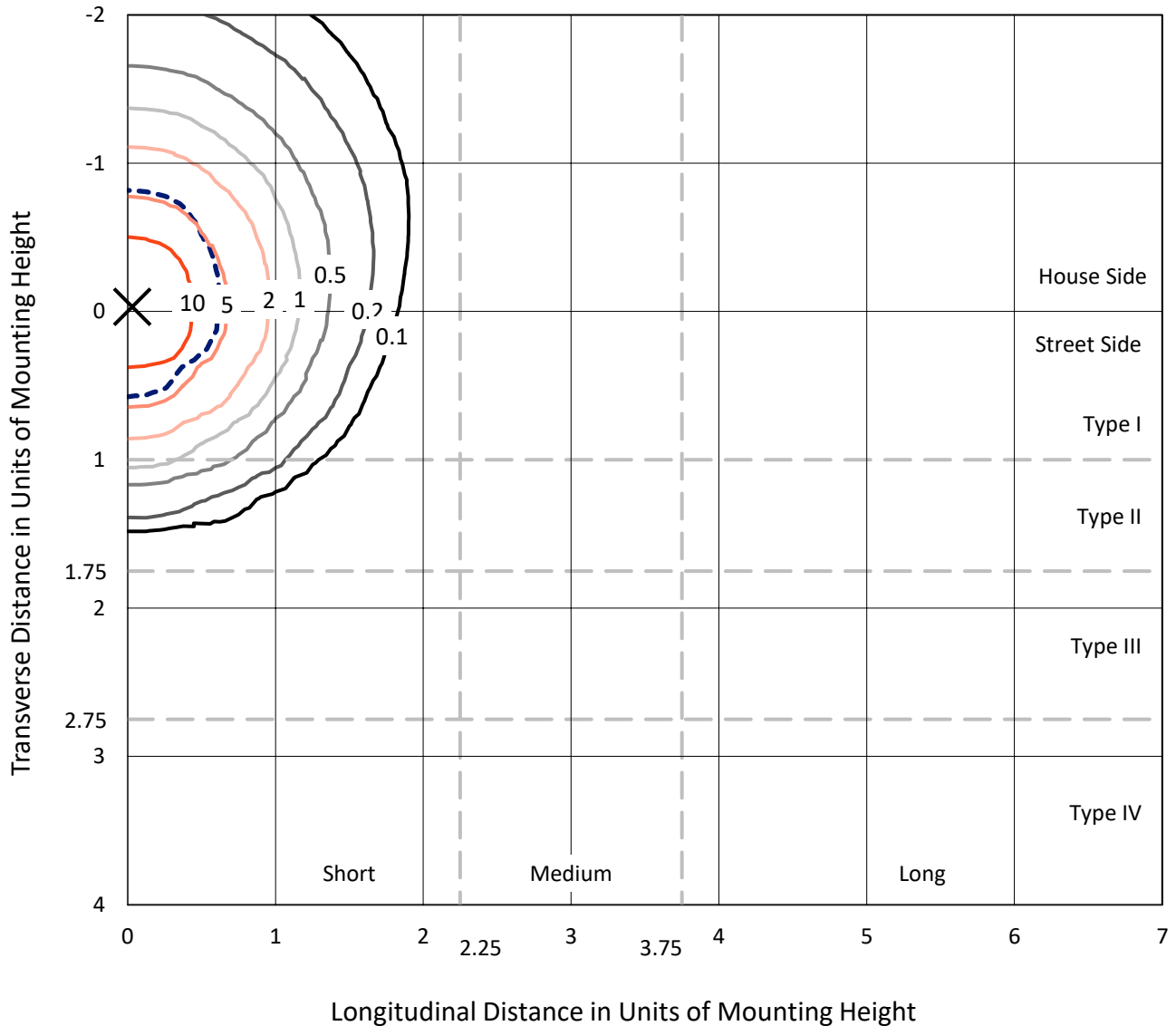
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

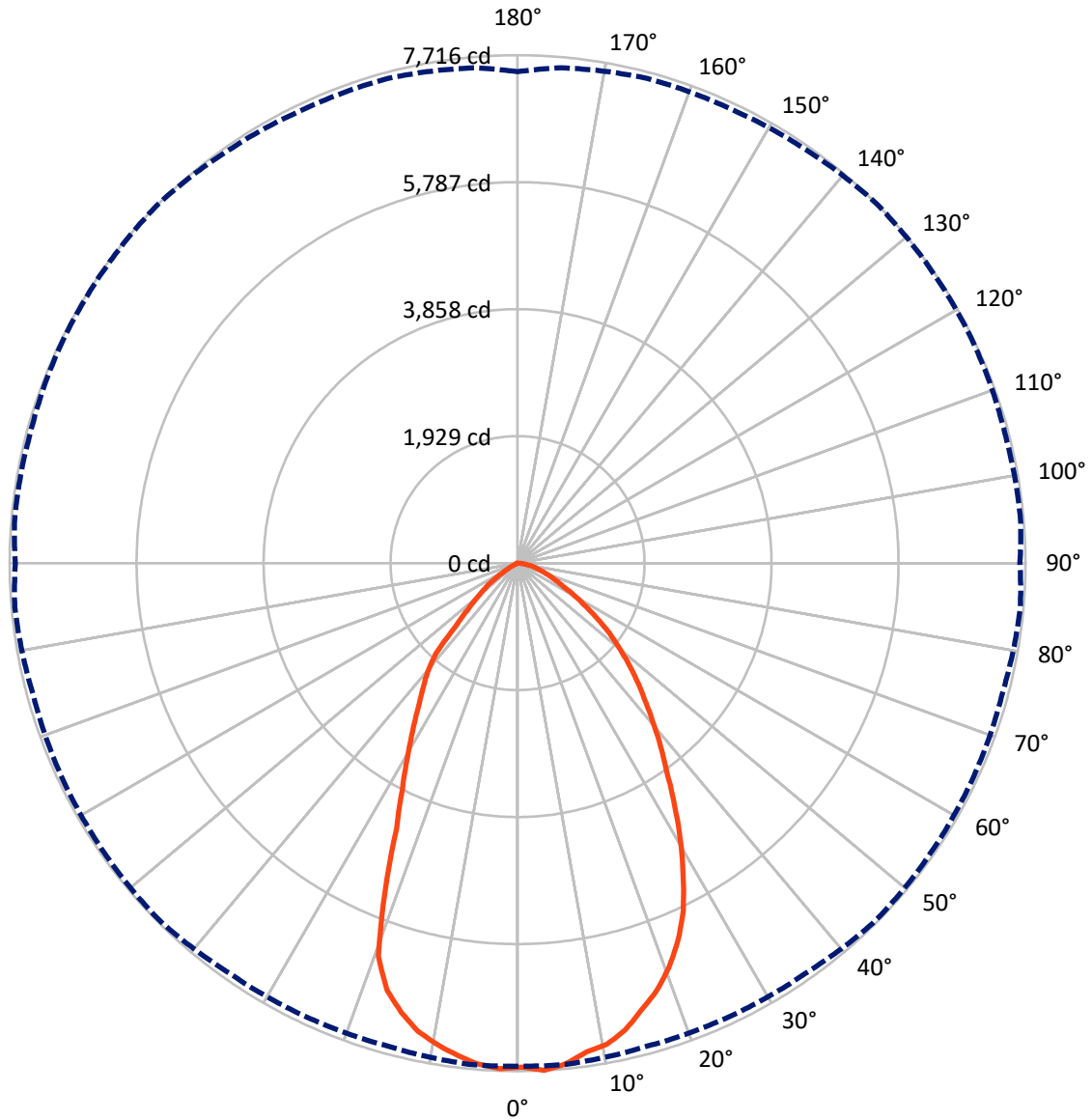
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.1 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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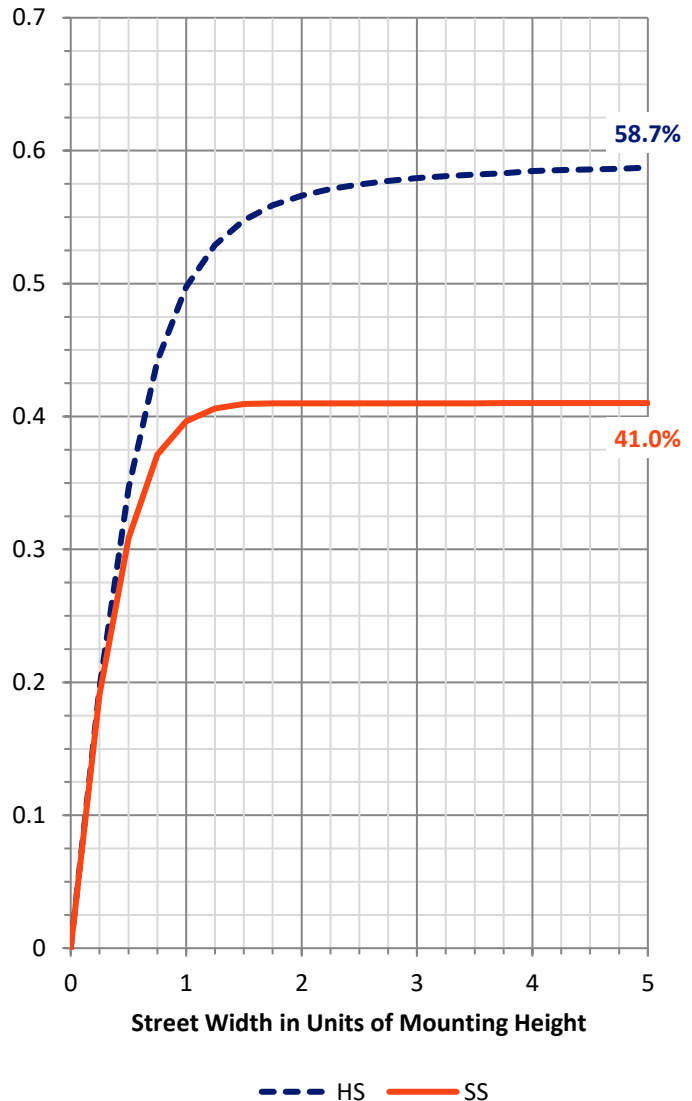
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5958.0	0.0	5958.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4101.9	0.0	4101.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	10059.8	0.0	10059.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.0	7.1
10°-20°	1925.3	19.1
20°-30°	2348.0	23.3
30°-40°	2143.7	21.3
40°-50°	1549.2	15.4
50°-60°	845.9	8.4
60°-70°	349.7	3.5
70°-80°	141.6	1.4
80°-90°	38.5	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°	10059.8	100.0
0°-180°	10059.8	100.0



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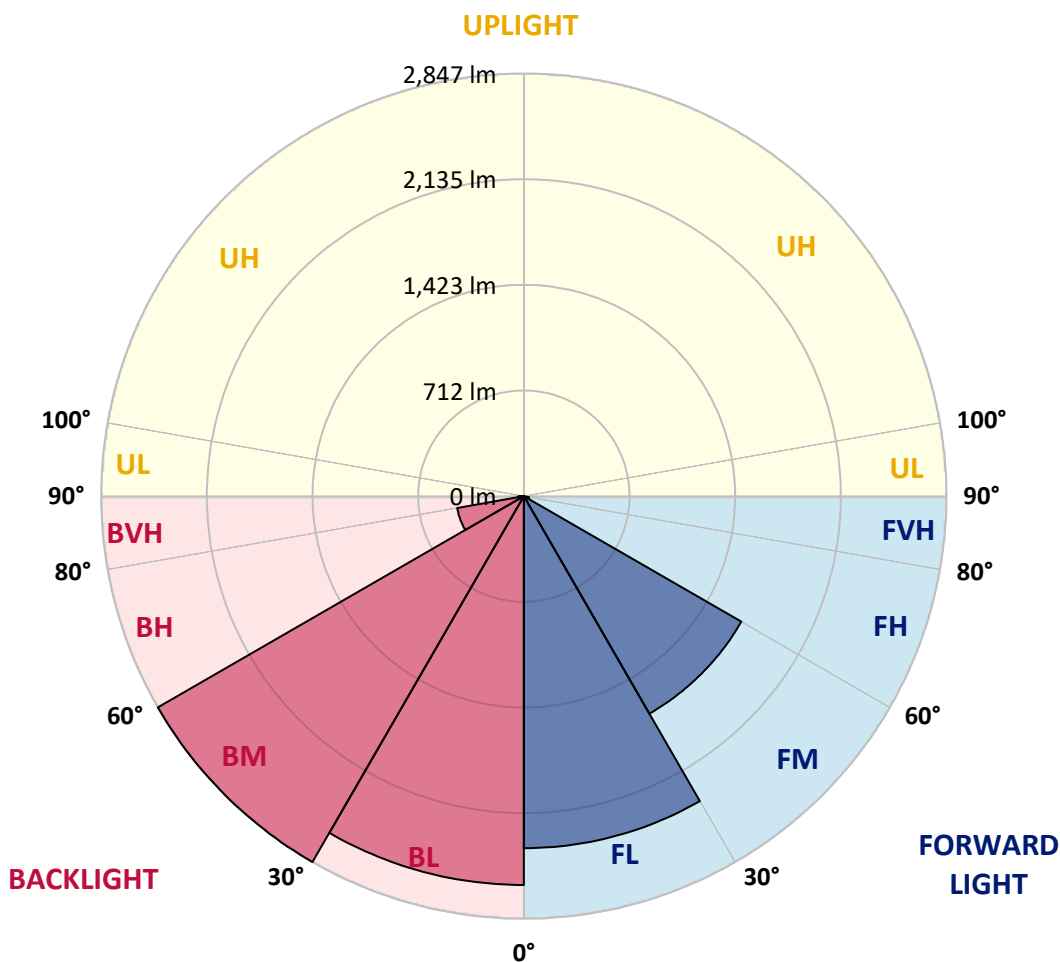
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.5	23.6			
FM (30°-60°)	1691.9	16.8			
FH (60°-80°)	35.4	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2619.7	26.0	B4/5000		
BM (30°-60°)	2846.8	28.3	B3/5000		
BH (60°-80°)	455.9	4.5	B1/500		G1/500
BVH (80°-90°)	35.4	0.4			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°	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5
2.5°	7641.4	7651.3	7597.4	7603.1	7613.0	7685.3	7666.9	7649.9	7625.8	7666.9
5°	7631.4	7637.1	7580.4	7560.6	7569.1	7634.3	7574.8	7574.8	7569.1	7562.0
7.5°	7554.9	7557.8	7513.9	7478.4	7501.1	7530.9	7486.9	7508.2	7477.0	7501.1
10°	7440.2	7421.8	7369.4	7359.4	7384.9	7413.3	7383.5	7403.4	7375.0	7393.4
12.5°	7271.6	7243.3	7200.8	7188.0	7231.9	7270.2	7246.1	7234.8	7197.9	7243.3
15°	6621.4	6600.1	6696.5	6865.0	7016.6	7049.2	7023.7	7035.0	6958.5	6971.3
17.5°	5449.8	5410.1	5513.6	5913.1	6482.5	6782.9	6760.2	6686.5	6573.2	6598.7
20°	4952.6	4941.2	4929.9	5024.8	5422.9	6333.8	6365.0	6178.0	6016.5	5981.1
22.5°	4672.1	4667.8	4656.5	4677.7	4782.6	5367.6	5724.6	5551.8	5444.1	5434.2
25°	4415.7	4408.6	4374.6	4401.5	4401.5	4435.5	4893.1	4997.9	4903.0	4891.7
27.5°	4155.0	4142.3	4136.6	4149.3	4084.2	3854.7	3970.8	4482.2	4432.7	4435.5
30°	3873.1	3868.8	3853.3	3880.2	3679.0	3394.3	3320.6	4014.8	4024.7	4021.8
32.5°	3453.8	3472.2	3543.0	3572.8	3241.3	3006.1	2882.9	3473.6	3676.2	3671.9
35°	2508.9	2508.9	2739.8	3169.0	2840.4	2663.3	2596.7	2945.2	3331.9	3346.1
37.5°	2062.6	2069.7	2115.0	2310.5	2450.8	2388.5	2368.6	2479.1	2889.9	2912.6
40°	1855.8	1855.8	1855.8	1775.0	1770.8	2151.9	2140.5	2105.1	2496.1	2545.7
42.5°	1667.4	1671.6	1674.5	1470.5	1357.1	1860.0	1834.5	1780.7	2143.4	2201.5
45°	1473.3	1480.4	1488.9	1229.6	1180.1	1338.7	1552.6	1493.1	1794.9	1870.0
47.5°	899.6	910.9	1103.6	1042.6	1048.3	1032.7	1266.5	1256.6	1471.9	1578.1
50°	607.7	612.0	630.4	661.6	899.6	811.7	896.7	1039.8	1117.7	1279.2
52.5°	510.0	517.1	471.7	429.2	590.7	634.7	626.2	772.1	803.2	1003.0
55°	358.4	381.1	359.8	355.6	335.7	493.0	474.6	593.6	613.4	762.2
57.5°	36.8	42.5	73.7	264.9	219.6	279.1	338.6	434.9	454.7	562.4
60°	2.8	2.8	7.1	36.8	160.1	167.2	233.7	267.7	306.0	392.4
62.5°	0.0	1.4	2.8	5.7	25.5	89.2	117.6	140.2	184.2	253.6
65°	0.0	0.0	1.4	4.2	5.7	34.0	45.3	73.7	100.6	157.2
67.5°	0.0	0.0	1.4	2.8	4.2	8.5	15.6	26.9	53.8	89.2
70°	0.0	0.0	1.4	2.8	4.2	7.1	11.3	17.0	24.1	48.2
72.5°	0.0	0.0	1.4	1.4	2.8	7.1	8.5	11.3	17.0	24.1
75°	0.0	0.0	1.4	1.4	4.2	8.5	7.1	8.5	11.3	15.6
77.5°	0.0	0.0	1.4	2.8	4.2	8.5	7.1	8.5	8.5	9.9
80°	0.0	0.0	1.4	2.8	5.7	9.9	8.5	8.5	7.1	7.1
82.5°	0.0	0.0	1.4	4.2	5.7	12.7	12.7	11.3	5.7	4.2
85°	0.0	0.0	2.8	5.7	8.5	14.2	14.2	11.3	4.2	2.8
87.5°	0.0	0.0	2.8	4.2	7.1	9.9	14.2	11.3	4.2	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°
7655.5	0°	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5	7655.5
7631.4	2.5°	7669.7	7661.2	7689.5	7700.9	7716.4	7656.9	7620.1	7621.5	7553.5
7545.0	5°	7590.4	7591.8	7628.6	7625.8	7641.4	7608.8	7594.6	7570.5	7511.0
7435.9	7.5°	7489.8	7477.0	7512.4	7539.4	7499.7	7522.4	7489.8	7501.1	7465.7
7339.6	10°	7411.9	7382.1	7414.7	7433.1	7434.5	7411.9	7380.7	7350.9	7338.2
7189.4	12.5°	7239.0	7200.8	7256.0	7281.5	7277.3	7233.4	7197.9	7205.0	7163.9
6925.9	15°	7001.0	7002.4	7042.1	7066.2	7043.5	7033.6	7036.4	7019.4	6984.0
6561.9	17.5°	6637.0	6658.2	6763.0	6821.1	6833.9	6814.0	6804.1	6784.3	6748.9
5981.1	20°	6030.6	6158.1	6345.1	6525.0	6560.5	6554.8	6519.4	6510.9	6491.0
5405.9	22.5°	5498.0	5592.9	5809.6	6090.1	6234.6	6248.8	6206.3	6193.5	6172.3
4891.7	25°	4946.9	5048.9	5244.4	5549.0	5847.9	5908.8	5901.7	5863.5	5840.8
4435.5	27.5°	4482.2	4584.2	4761.3	5036.2	5356.3	5551.8	5570.2	5509.3	5507.9
4028.9	30°	4062.9	4203.2	4337.7	4561.6	4871.8	5165.1	5196.2	5153.7	5158.0
3656.3	32.5°	3734.3	3850.4	3965.2	4115.3	4373.2	4714.6	4836.4	4796.7	4781.2
3346.1	35°	3398.5	3477.8	3595.4	3732.8	3908.5	4247.1	4458.2	4428.4	4412.8
2926.8	37.5°	3016.0	3152.0	3237.0	3391.4	3528.8	3798.0	4095.5	4091.3	4058.7
2569.8	40°	2623.6	2766.7	2895.6	3051.4	3157.7	3371.6	3701.7	3700.3	3704.5
2200.0	42.5°	2268.0	2399.8	2555.6	2725.6	2827.6	2983.4	3337.6	3357.4	3381.5
1895.5	45°	1946.5	2065.5	2210.0	2416.8	2540.0	2629.3	2943.8	3034.4	3033.0
1623.5	47.5°	1657.5	1769.4	1891.2	2092.4	2249.6	2330.4	2591.0	2719.9	2711.4
1331.6	50°	1391.1	1490.3	1617.8	1763.7	1974.8	2045.6	2239.7	2409.7	2397.0
1061.1	52.5°	1119.1	1256.6	1364.2	1497.4	1719.8	1789.2	1939.4	2105.1	2095.2
796.2	55°	872.6	1005.8	1136.1	1250.9	1437.9	1541.3	1649.0	1819.0	1816.1
623.3	57.5°	660.2	806.1	929.3	1038.4	1187.1	1314.6	1401.1	1555.5	1575.3
426.4	60°	488.7	600.7	733.8	855.7	973.2	1105.0	1163.1	1314.6	1323.1
291.8	62.5°	332.9	456.2	586.5	697.0	784.8	920.8	973.2	1097.9	1113.5
187.0	65°	230.9	310.2	459.0	538.3	646.0	762.2	814.6	913.7	944.9
107.7	67.5°	153.0	221.0	358.4	430.7	536.9	616.2	682.8	763.6	797.6
68.0	70°	83.6	162.9	256.4	340.0	432.1	508.6	573.7	638.9	668.7
31.2	72.5°	56.7	109.1	178.5	269.2	348.5	423.6	481.7	529.8	531.2
18.4	75°	28.3	73.7	136.0	208.2	272.0	345.7	398.1	426.4	392.4
11.3	77.5°	17.0	53.8	110.5	167.2	221.0	279.1	308.8	324.4	269.2
8.5	80°	9.9	38.2	86.4	133.2	153.0	205.4	233.7	238.0	179.9
5.7	82.5°	7.1	28.3	68.0	97.7	93.5	144.5	175.7	170.0	114.7
4.2	85°	4.2	19.8	42.5	60.9	56.7	94.9	102.0	104.8	66.6
2.8	87.5°	2.8	11.3	22.7	32.6	26.9	41.1	41.1	49.6	32.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7655.5
7465.7
7496.9
7406.2
7281.5
7128.5
6948.6
6733.3
6445.7
6166.6
5816.7
5505.1
5136.7
4782.6
4391.6
4085.6
3704.5
3368.8
3035.9
2714.3
2408.3
2116.5
1823.2
1566.8
1335.9
1116.3
937.8
793.3
657.3
518.5
366.9
259.2
168.6
106.2
60.9
28.3
0.0

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