

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: P636563

Luminaire Tested: **IFLD-S-SA2A-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4653.8 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

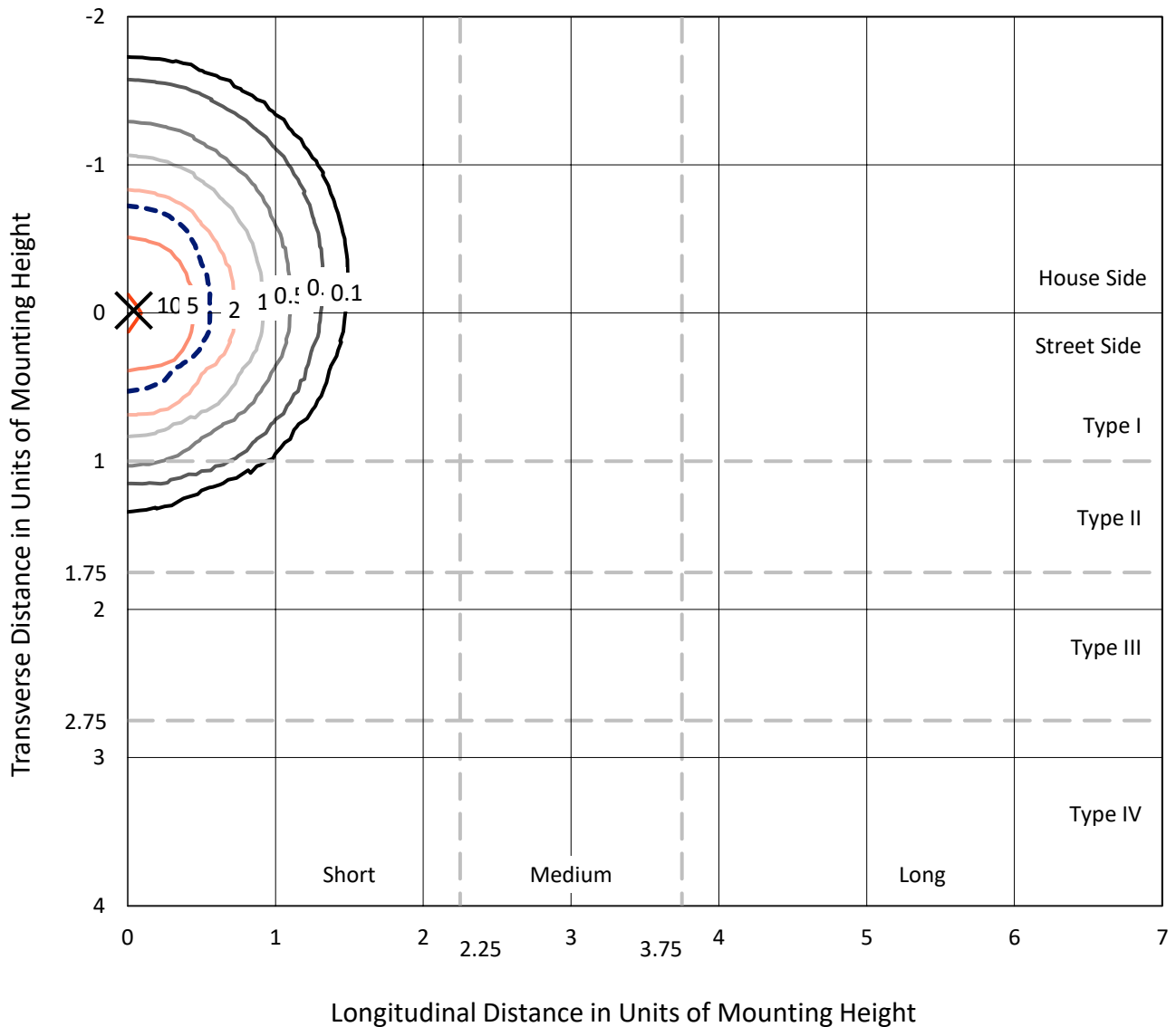
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

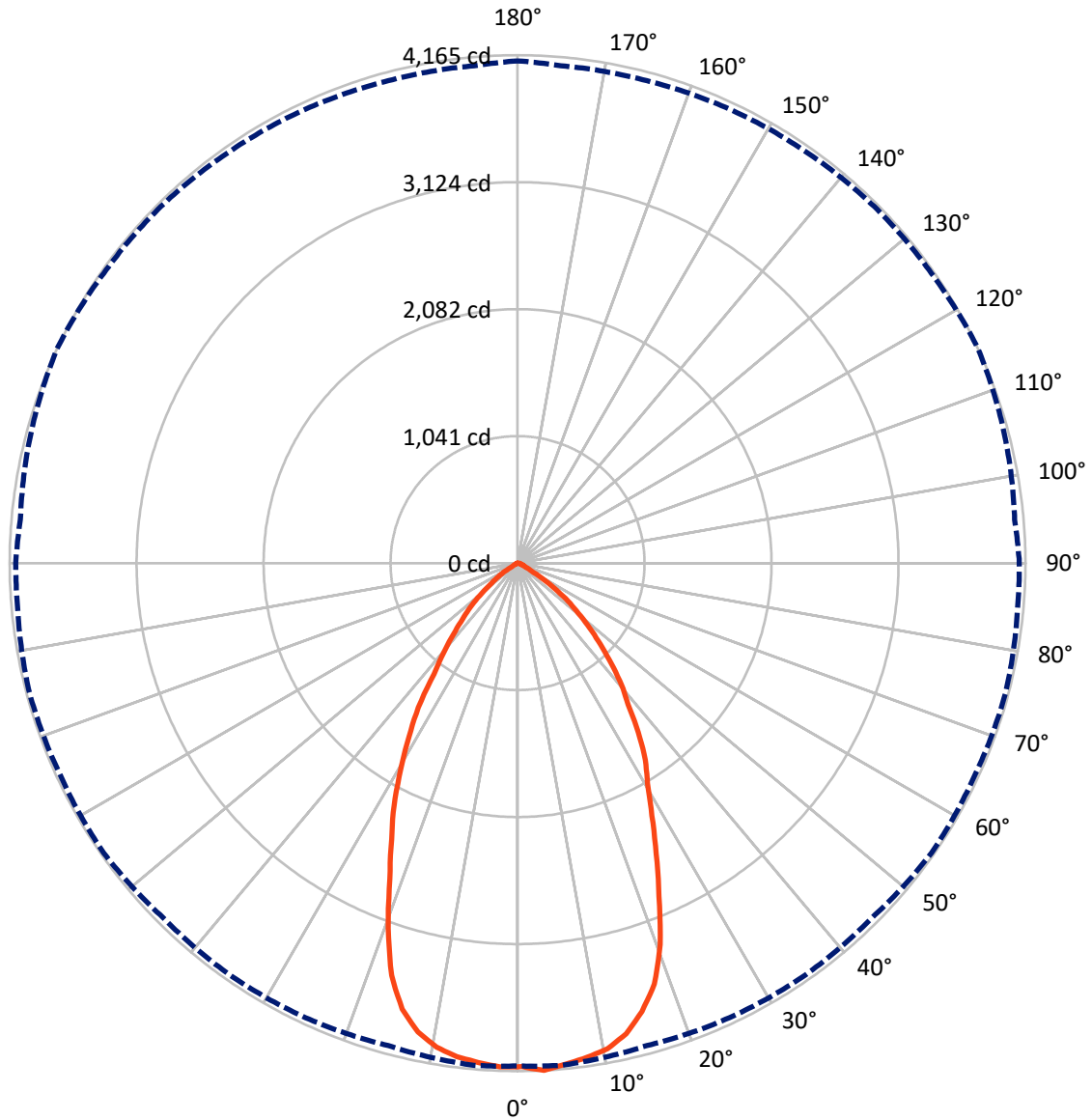
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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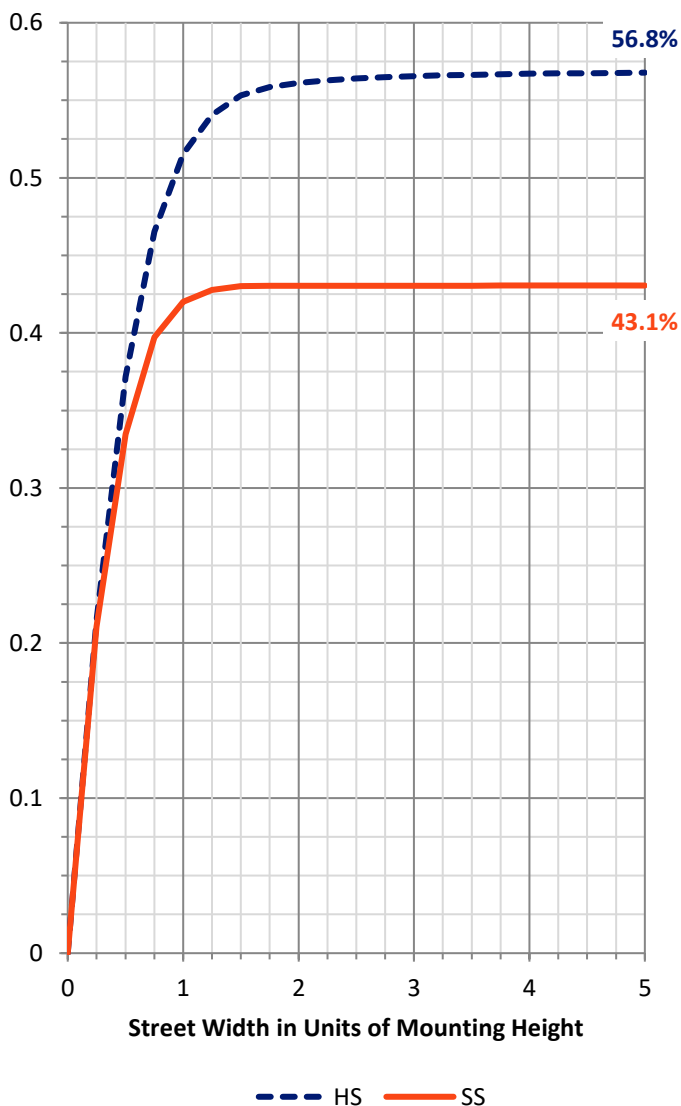
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.3	0.0	2663.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	1990.5	0.0	1990.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	4653.8	0.0	4653.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	8.4
10°-20°	1031.2	22.2
20°-30°	1179.5	25.3
30°-40°	1010.8	21.7
40°-50°	668.4	14.4
50°-60°	291.6	6.3
60°-70°	57.3	1.2
70°-80°	20.7	0.4
80°-90°	5.5	0.1
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°	4653.8	100.0
0°-180°	4653.8	100.0



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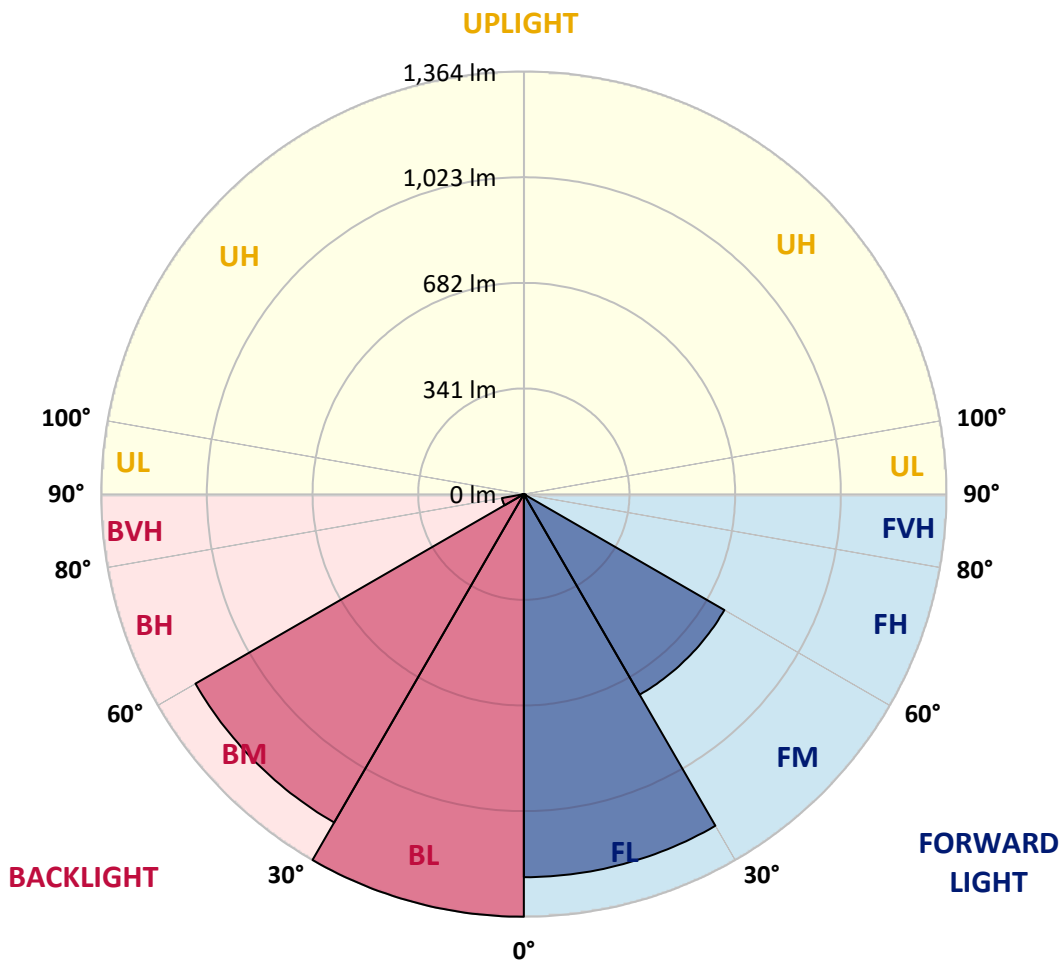
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.9	26.6			
FM (30°-60°)	747.3	16.1			
FH (60°-80°)	6.3	0.1			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1363.6	29.3	B3/2500		
BM (30°-60°)	1223.5	26.3	B2/2500		
BH (60°-80°)	71.7	1.5	B0/110		G0/110
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1
2.5°	4123.1	4133.0	4095.4	4112.3	4119.2	4110.3	4142.9	4133.0	4140.9	4116.2
5°	4123.1	4133.0	4089.5	4097.4	4099.4	4082.6	4118.2	4106.3	4107.3	4081.6
7.5°	4097.4	4109.3	4069.7	4075.7	4076.6	4062.8	4093.5	4076.6	4070.7	4044.0
10°	4028.2	4035.1	3999.5	4014.3	4028.2	4015.3	4042.0	4023.2	4023.2	3999.5
12.5°	3918.4	3931.2	3891.7	3909.5	3921.3	3906.5	3937.2	3930.2	3931.2	3907.5
15°	3718.5	3674.0	3721.5	3757.1	3758.1	3755.1	3783.8	3776.9	3781.9	3746.2
17.5°	2747.1	2736.2	2791.6	3212.1	3524.7	3567.2	3572.1	3534.5	3517.7	3483.1
20°	2545.3	2553.2	2541.4	2543.3	2789.7	3301.1	3270.4	3177.4	3134.9	3100.3
22.5°	2397.9	2385.1	2377.1	2372.2	2379.1	2712.5	2933.1	2792.6	2769.9	2753.0
25°	2237.7	2231.7	2221.8	2219.8	2215.9	2159.5	2477.1	2489.9	2453.3	2432.5
27.5°	2088.3	2084.3	2073.4	2072.5	2026.9	1890.4	1925.1	2230.7	2220.8	2212.9
30°	1929.0	1921.1	1915.2	1915.2	1777.7	1637.2	1580.8	1944.8	1944.8	1937.9
32.5°	1755.9	1749.0	1751.0	1727.2	1563.0	1434.4	1345.4	1678.7	1782.6	1776.7
35°	1073.3	1071.3	1272.2	1536.3	1343.4	1226.7	1220.7	1436.4	1587.7	1603.6
37.5°	955.6	949.7	952.6	969.5	1150.5	1104.0	1102.0	1138.6	1351.3	1359.2
40°	857.7	853.7	850.7	790.4	733.0	985.3	978.4	954.6	1154.4	1168.3
42.5°	764.7	760.7	760.7	675.6	582.7	810.2	813.2	785.5	973.4	978.4
45°	668.7	665.8	648.9	539.1	512.4	538.1	673.7	642.0	772.6	824.0
47.5°	315.6	313.6	454.1	448.1	446.1	430.3	514.4	532.2	613.3	664.8
50°	253.2	251.3	239.4	210.7	367.0	326.4	371.0	409.5	435.3	482.7
52.5°	209.7	207.7	183.0	162.2	203.8	238.4	221.6	274.0	273.0	324.5
55°	137.5	127.6	140.5	132.6	106.8	173.1	169.2	207.7	202.8	247.3
57.5°	3.0	3.0	6.9	75.2	67.3	73.2	96.9	118.7	133.5	146.4
60°	1.0	1.0	2.0	4.0	27.7	30.7	37.6	43.5	61.3	76.2
62.5°	0.0	0.0	1.0	2.0	4.0	15.8	17.8	20.8	28.7	39.6
65°	0.0	0.0	0.0	1.0	2.0	4.0	5.9	12.9	17.8	22.8
67.5°	0.0	0.0	0.0	1.0	1.0	2.0	4.0	5.9	7.9	15.8
70°	0.0	0.0	0.0	1.0	1.0	2.0	3.0	4.0	5.9	7.9
72.5°	0.0	0.0	0.0	1.0	1.0	3.0	2.0	3.0	4.0	4.9
75°	0.0	0.0	0.0	1.0	1.0	1.0	2.0	3.0	3.0	4.0
77.5°	0.0	0.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0
80°	0.0	0.0	0.0	1.0	1.0	2.0	3.0	4.0	2.0	2.0
82.5°	0.0	0.0	0.0	2.0	1.0	4.0	5.9	4.9	2.0	1.0
85°	0.0	0.0	0.0	1.0	4.0	4.9	4.9	3.0	1.0	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	3.0	3.0	1.0	1.0
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°
4129.1	0°	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1
4114.2	2.5°	4091.5	4130.1	4164.7	4142.9	4135.0	4119.2	4107.3	4094.5	4093.5
4078.6	5°	4055.9	4092.5	4126.1	4100.4	4102.4	4094.5	4086.5	4083.6	4085.6
4042.0	7.5°	4025.2	4055.9	4092.5	4070.7	4076.6	4071.7	4067.7	4061.8	4070.7
3994.5	10°	3978.7	4006.4	4048.9	4028.2	4025.2	4020.3	4016.3	4005.4	4010.4
3908.5	12.5°	3876.8	3911.4	3959.9	3936.2	3944.1	3930.2	3924.3	3917.4	3918.4
3759.1	15°	3738.3	3765.0	3814.5	3795.7	3801.6	3792.7	3792.7	3792.7	3799.7
3488.1	17.5°	3497.0	3551.4	3629.5	3605.8	3614.7	3616.7	3614.7	3621.6	3630.5
3102.2	20°	3104.2	3197.2	3339.7	3386.2	3405.0	3405.9	3392.1	3408.9	3426.7
2741.2	22.5°	2743.2	2841.1	2966.7	3094.3	3173.5	3169.5	3171.5	3182.4	3201.2
2419.7	25°	2430.6	2524.5	2638.3	2752.1	2925.2	2960.8	2961.8	2971.7	2986.5
2200.1	27.5°	2205.0	2241.6	2345.5	2460.2	2646.2	2760.0	2754.0	2762.9	2778.8
1925.1	30°	1933.0	2073.4	2097.2	2167.4	2327.7	2536.4	2537.4	2547.3	2563.1
1762.8	32.5°	1757.9	1850.9	1924.1	1926.0	2062.6	2277.2	2319.8	2329.7	2340.5
1594.7	35°	1593.7	1604.5	1703.5	1731.2	1810.3	2023.0	2098.2	2104.1	2121.9
1356.2	37.5°	1379.0	1443.3	1471.0	1569.9	1573.9	1746.0	1895.4	1889.4	1903.3
1167.3	40°	1182.1	1243.5	1313.7	1385.9	1395.8	1524.4	1689.6	1695.6	1701.5
968.5	42.5°	976.4	1054.5	1126.7	1175.2	1242.5	1316.7	1474.0	1501.7	1515.5
830.0	45°	844.8	866.6	952.6	1023.9	1092.1	1126.7	1274.1	1324.6	1333.5
656.9	47.5°	665.8	739.0	797.3	857.7	942.7	973.4	1080.2	1150.5	1157.4
487.7	50°	514.4	566.8	647.0	701.4	800.3	817.1	890.3	981.3	990.2
326.4	52.5°	368.0	439.2	517.4	569.8	664.8	686.5	740.9	828.0	833.9
250.3	55°	264.1	310.6	374.9	450.1	519.3	567.8	605.4	688.5	696.4
164.2	57.5°	180.0	223.6	250.3	325.5	367.0	419.4	450.1	513.4	519.3
78.1	60°	86.1	106.8	127.6	165.2	191.9	236.4	256.2	281.9	288.9
47.5	62.5°	55.4	65.3	83.1	98.9	124.6	152.3	160.3	182.0	189.9
29.7	65°	36.6	46.5	65.3	69.2	95.0	116.7	126.6	142.5	151.4
17.8	67.5°	20.8	32.6	48.5	57.4	75.2	96.0	106.8	120.7	128.6
11.9	70°	13.8	26.7	38.6	47.5	59.4	77.2	91.0	102.9	107.8
5.9	72.5°	7.9	16.8	26.7	37.6	47.5	64.3	77.2	87.1	57.4
4.0	75°	4.9	12.9	22.8	31.7	39.6	51.4	62.3	61.3	25.7
3.0	77.5°	4.0	9.9	19.8	26.7	32.6	35.6	44.5	50.5	19.8
2.0	80°	3.0	7.9	17.8	22.8	12.9	25.7	34.6	37.6	13.8
2.0	82.5°	2.0	4.9	14.8	15.8	8.9	18.8	27.7	24.7	9.9
1.0	85°	1.0	3.0	4.9	8.9	7.9	8.9	6.9	9.9	6.9
1.0	87.5°	1.0	2.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4129.1
4117.2
4110.3
4095.4
4034.1
3947.1
3802.6
3660.2
3438.6
3204.1
3012.2
2793.6
2590.8
2365.3
2140.7
1920.1
1720.3
1535.3
1355.3
1174.2
1003.1
844.8
703.3
531.2
296.8
191.9
151.4
127.6
106.8
46.5
25.7
19.8
14.8
9.9
6.9
4.0
0.0

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