

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: P636854

Luminaire Tested: **IFLD-S-SA2B-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636854  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5327.7 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

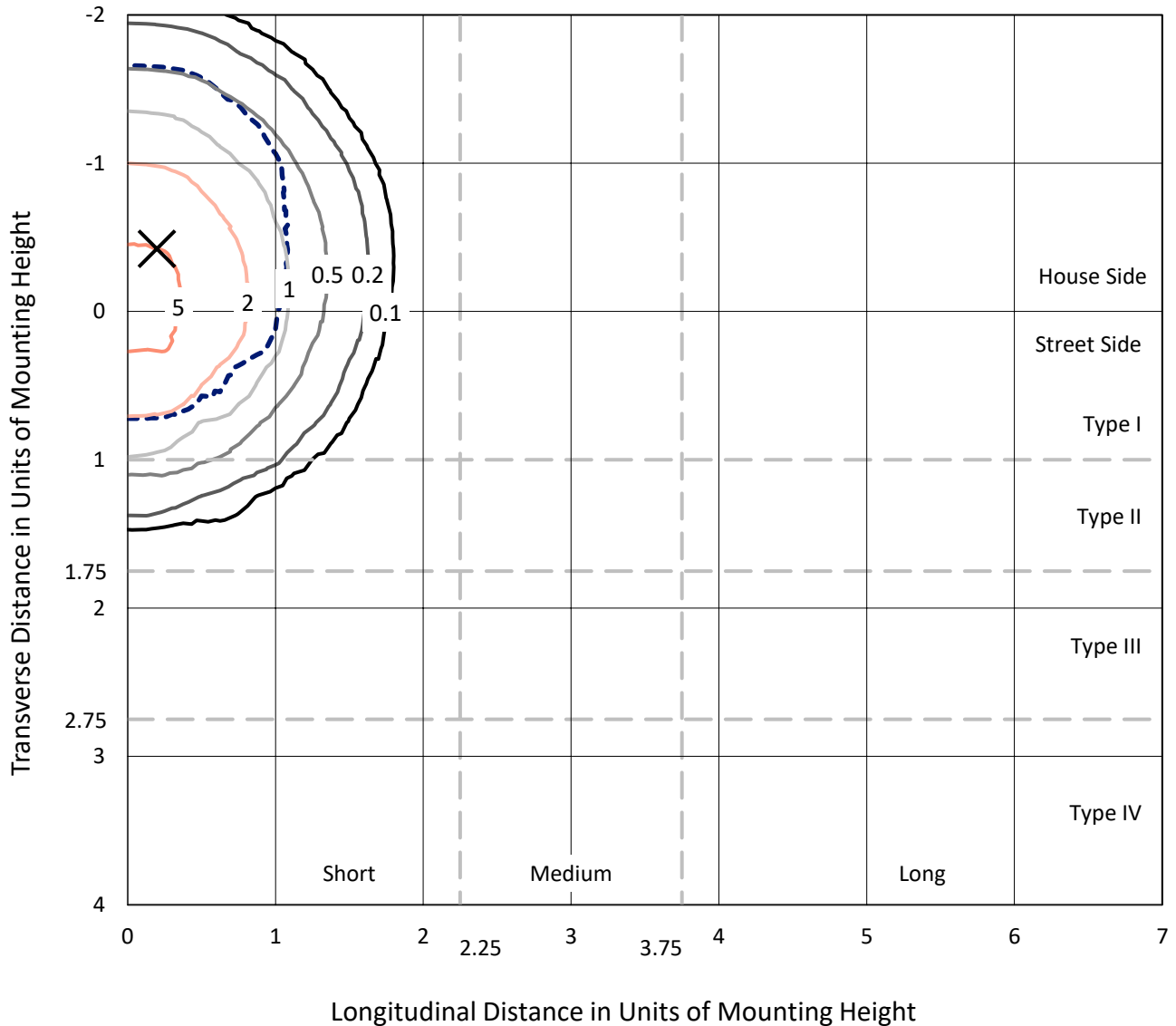
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

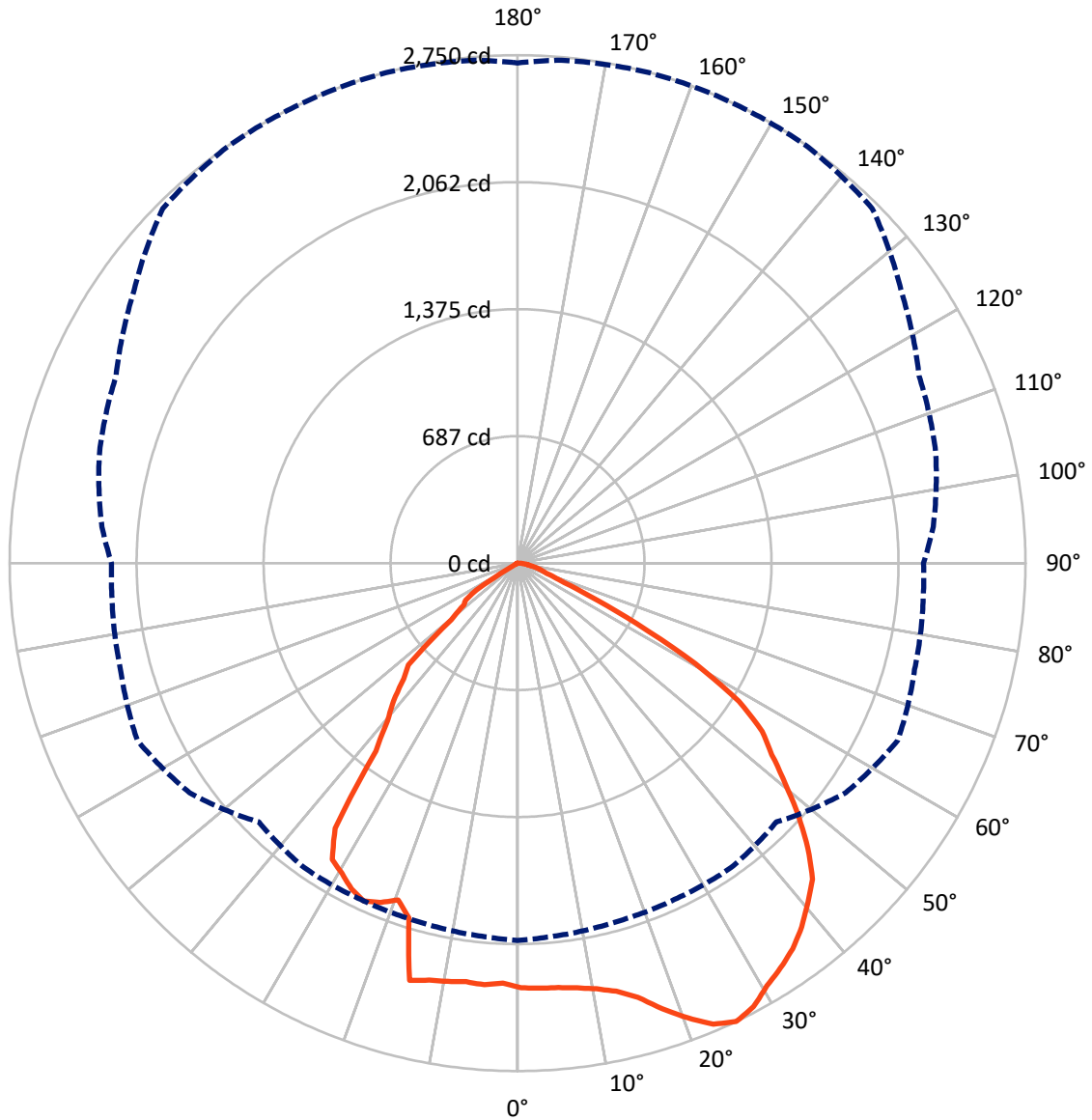
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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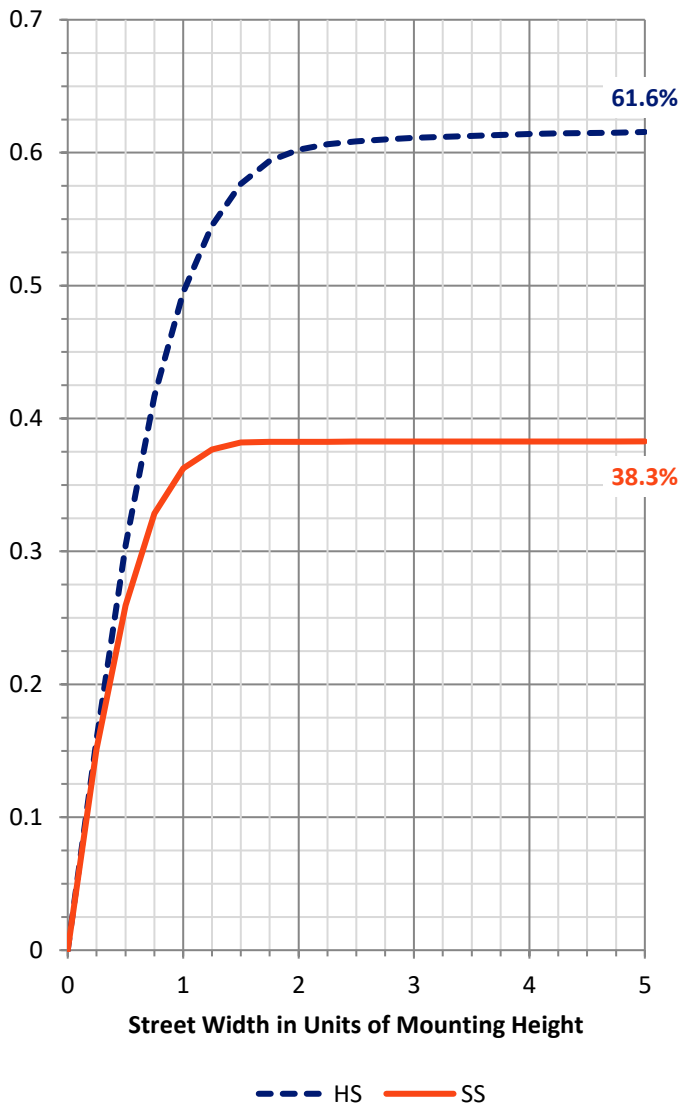
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3298.4	0.0	3298.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2029.3	0.0	2029.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	5327.7	0.0	5327.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.5	4.1
10°-20°	673.4	12.6
20°-30°	1064.6	20.0
30°-40°	1202.6	22.6
40°-50°	1126.2	21.1
50°-60°	776.5	14.6
60°-70°	208.6	3.9
70°-80°	43.5	0.8
80°-90°	11.8	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°	5327.7	100.0
0°-180°	5327.7	100.0



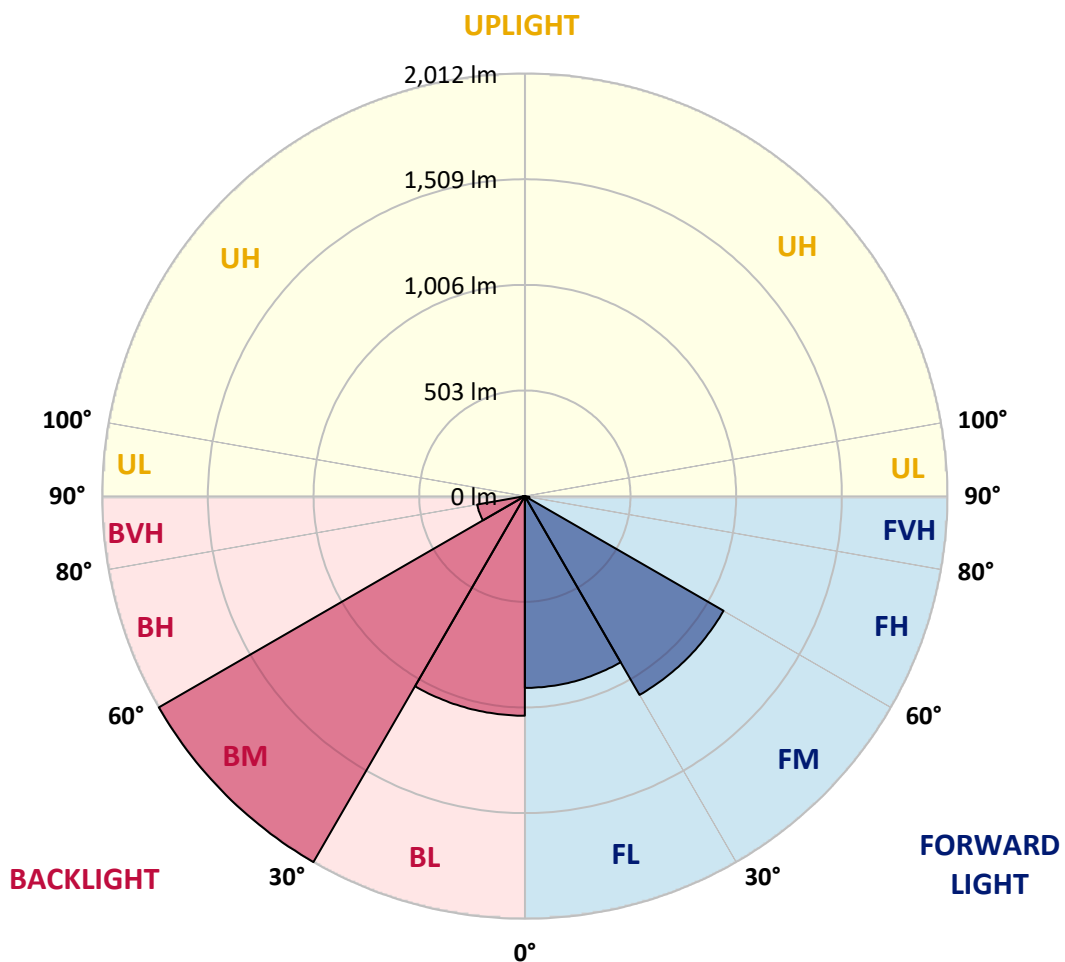
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.0	17.1			
FM (30°-60°)	1092.8	20.5			
FH (60°-80°)	21.9	0.4			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1045.6	19.6	B3/2500		
BM (30°-60°)	2012.5	37.8	B2/2500		
BH (60°-80°)	230.2	4.3	B1/500		G1/500
BVH (80°-90°)	10.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8
2.5°	2309.0	2294.1	2280.0	2275.3	2294.9	2316.0	2302.7	2303.5	2298.8	2307.4
5°	2326.2	2305.9	2296.5	2289.4	2292.6	2314.5	2295.7	2302.7	2294.9	2305.1
7.5°	2320.0	2305.9	2296.5	2283.2	2293.3	2319.2	2301.2	2302.0	2298.0	2307.4
10°	2316.0	2305.9	2294.1	2295.7	2307.4	2329.4	2315.3	2323.1	2317.6	2323.1
12.5°	2325.4	2314.5	2308.2	2308.2	2318.4	2343.5	2336.4	2343.5	2341.1	2345.8
15°	2237.0	2247.1	2306.7	2333.3	2353.6	2378.7	2375.6	2382.6	2384.2	2391.2
17.5°	1887.0	1876.8	1872.1	2009.1	2373.2	2450.7	2448.4	2447.6	2439.8	2434.3
20°	1933.2	1929.3	1923.8	1934.0	1974.7	2488.3	2504.0	2407.7	2379.5	2377.1
22.5°	2006.8	2000.5	1980.2	1980.9	1993.5	2163.4	2426.4	2338.8	2329.4	2323.9
25°	2042.8	2030.3	2013.8	2009.1	2013.0	1981.7	2167.3	2271.4	2225.2	2204.1
27.5°	1979.4	1980.2	1966.8	1979.4	1964.5	1823.6	1744.5	2139.9	2138.3	2128.9
30°	1931.6	1929.3	1913.6	1929.3	1826.7	1669.3	1635.6	1995.8	1979.4	1966.8
32.5°	1785.2	1786.8	1832.2	1893.2	1724.9	1600.4	1498.6	1782.8	1938.7	1931.6
35°	1277.0	1280.2	1441.5	1742.9	1570.7	1463.4	1455.6	1540.9	1874.4	1877.6
37.5°	1229.3	1229.3	1225.4	1274.7	1449.3	1407.8	1423.5	1414.8	1717.1	1724.9
40°	1194.8	1187.8	1182.3	1104.8	1007.7	1368.6	1379.6	1340.5	1623.1	1624.7
42.5°	1153.3	1145.5	1147.1	1003.8	902.0	1271.6	1241.0	1188.6	1466.5	1468.1
45°	1077.4	1090.7	1100.1	878.5	870.7	908.3	1144.7	1111.8	1360.8	1389.8
47.5°	548.1	559.8	858.9	808.0	826.0	807.3	967.0	967.8	1132.2	1228.5
50°	497.2	494.1	494.8	471.4	762.6	653.0	699.2	887.1	906.7	1044.5
52.5°	463.5	462.7	415.0	368.8	479.2	574.7	507.4	642.0	674.1	884.8
55°	342.9	368.0	327.3	346.9	299.9	460.4	458.0	579.4	590.4	709.4
57.5°	3.1	3.9	9.4	263.9	207.5	230.2	316.3	395.4	415.0	552.8
60°	0.8	1.6	3.9	7.8	134.7	141.7	211.4	228.6	257.6	329.6
62.5°	0.0	0.0	1.6	3.9	7.0	57.9	67.3	73.6	113.5	168.3
65°	0.0	0.0	0.8	2.3	3.9	9.4	16.4	34.5	49.3	61.1
67.5°	0.0	0.0	0.8	1.6	3.1	4.7	9.4	13.3	21.1	36.0
70°	0.0	0.0	0.8	1.6	2.3	3.9	6.3	9.4	12.5	18.0
72.5°	0.0	0.0	0.8	1.6	1.6	4.7	4.7	7.0	9.4	11.7
75°	0.0	0.0	0.8	0.8	1.6	3.1	4.7	5.5	6.3	9.4
77.5°	0.0	0.0	0.8	1.6	2.3	3.1	3.9	6.3	5.5	5.5
80°	0.0	0.0	0.8	2.3	2.3	3.9	4.7	6.3	3.9	3.9
82.5°	0.0	0.0	0.8	3.1	2.3	7.8	7.8	8.6	3.1	3.1
85°	0.0	0.0	2.3	1.6	4.7	7.8	7.0	4.7	3.9	2.3
87.5°	0.0	0.0	0.8	0.8	1.6	2.3	5.5	4.7	1.6	1.6
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°
2298.8	0°	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8	2298.8
2284.7	2.5°	2316.0	2305.9	2327.0	2324.7	2314.5	2309.8	2304.3	2299.6	2265.2
2286.3	5°	2316.8	2301.2	2327.0	2322.3	2320.7	2312.9	2308.2	2315.3	2283.9
2292.6	7.5°	2316.8	2301.2	2329.4	2330.9	2328.6	2322.3	2321.5	2326.2	2300.4
2303.5	10°	2332.5	2326.2	2349.7	2352.1	2348.9	2347.4	2343.5	2340.3	2312.9
2341.1	12.5°	2365.4	2352.8	2379.5	2386.5	2384.2	2388.1	2378.7	2383.4	2355.2
2379.5	15°	2405.3	2406.1	2426.4	2442.1	2440.5	2453.1	2439.0	2451.5	2431.1
2423.3	17.5°	2466.4	2475.0	2504.0	2527.5	2536.1	2545.5	2536.1	2540.0	2511.0
2374.8	20°	2402.2	2434.3	2573.6	2616.7	2634.7	2643.3	2627.7	2632.4	2603.4
2315.3	22.5°	2344.2	2385.7	2509.4	2644.1	2699.7	2716.9	2711.5	2710.7	2699.7
2197.8	25°	2258.9	2342.7	2398.3	2540.8	2715.4	2746.7	2749.8	2749.0	2732.6
2125.8	27.5°	2154.0	2172.8	2316.8	2403.7	2605.8	2724.8	2720.1	2697.4	2675.4
1976.2	30°	2020.1	2105.4	2170.4	2309.0	2464.0	2657.4	2657.4	2640.2	2617.5
1923.0	32.5°	1952.0	2062.4	2122.7	2172.8	2305.1	2582.3	2613.6	2595.6	2577.6
1881.5	35°	1915.9	1932.4	2073.3	2118.7	2230.7	2437.4	2564.3	2546.2	2532.9
1771.1	37.5°	1836.9	1875.2	1941.0	2062.4	2096.8	2319.2	2498.5	2489.1	2473.4
1627.8	40°	1660.7	1763.3	1864.3	1979.4	2015.4	2167.3	2418.6	2422.5	2401.4
1475.1	42.5°	1556.6	1626.2	1784.4	1861.9	1959.0	2069.4	2341.1	2347.4	2332.5
1397.6	45°	1434.4	1511.9	1623.1	1764.0	1896.4	1934.7	2204.1	2269.9	2257.3
1243.4	47.5°	1322.4	1385.1	1521.3	1663.8	1810.2	1804.8	2046.7	2170.4	2153.2
1125.1	50°	1163.5	1273.1	1337.3	1468.1	1686.5	1701.4	1879.1	2053.8	2039.7
956.0	52.5°	981.1	1118.9	1241.8	1361.6	1561.3	1596.5	1723.3	1934.7	1925.3
730.5	55°	857.4	957.6	1096.2	1192.5	1409.4	1503.3	1606.7	1821.2	1816.5
600.5	57.5°	609.9	803.3	917.7	1052.3	1166.6	1336.5	1413.3	1590.2	1546.4
332.8	60°	413.4	504.2	643.6	788.5	865.2	1035.1	1106.3	1248.1	1236.3
198.9	62.5°	218.5	302.2	401.7	474.5	530.1	695.3	725.0	877.7	873.8
79.9	65°	96.3	127.6	217.7	255.3	312.4	389.1	415.0	469.8	456.5
39.1	67.5°	50.1	75.9	122.9	151.1	190.3	219.2	240.4	257.6	268.6
25.8	70°	30.5	55.6	75.9	104.9	130.8	154.2	170.7	194.2	208.3
13.3	72.5°	22.7	35.2	52.5	80.6	94.7	122.1	138.6	155.8	168.3
11.0	75°	12.5	23.5	42.3	63.4	75.9	99.4	114.3	126.1	130.0
6.3	77.5°	7.8	18.0	35.2	49.3	59.5	80.6	76.7	87.7	97.1
4.7	80°	5.5	13.3	27.4	40.7	41.5	51.7	61.1	70.5	76.7
3.1	82.5°	3.9	11.0	20.4	31.3	27.4	39.9	47.8	54.8	39.9
2.3	85°	3.1	7.8	10.2	18.8	15.7	28.2	24.3	23.5	15.7
1.6	87.5°	2.3	3.9	7.0	8.6	6.3	6.3	7.8	9.4	7.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
2298.8  
2241.7  
2257.3  
2270.6  
2290.2  
2330.1  
2397.5  
2486.0  
2583.0  
2664.5  
*2707.5*  
2658.2  
2608.9  
2562.7  
2514.1  
2457.8  
2396.7  
2330.9  
2258.9  
2165.7  
2042.0  
1931.6  
1822.0  
1541.7  
1237.1  
874.6  
451.0  
268.6  
209.1  
170.7  
127.6  
98.7  
77.5  
29.0  
15.7  
7.8  
0.0

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