

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: P852309

Luminaire Tested: **GLAN-SB2D-850-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17270 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

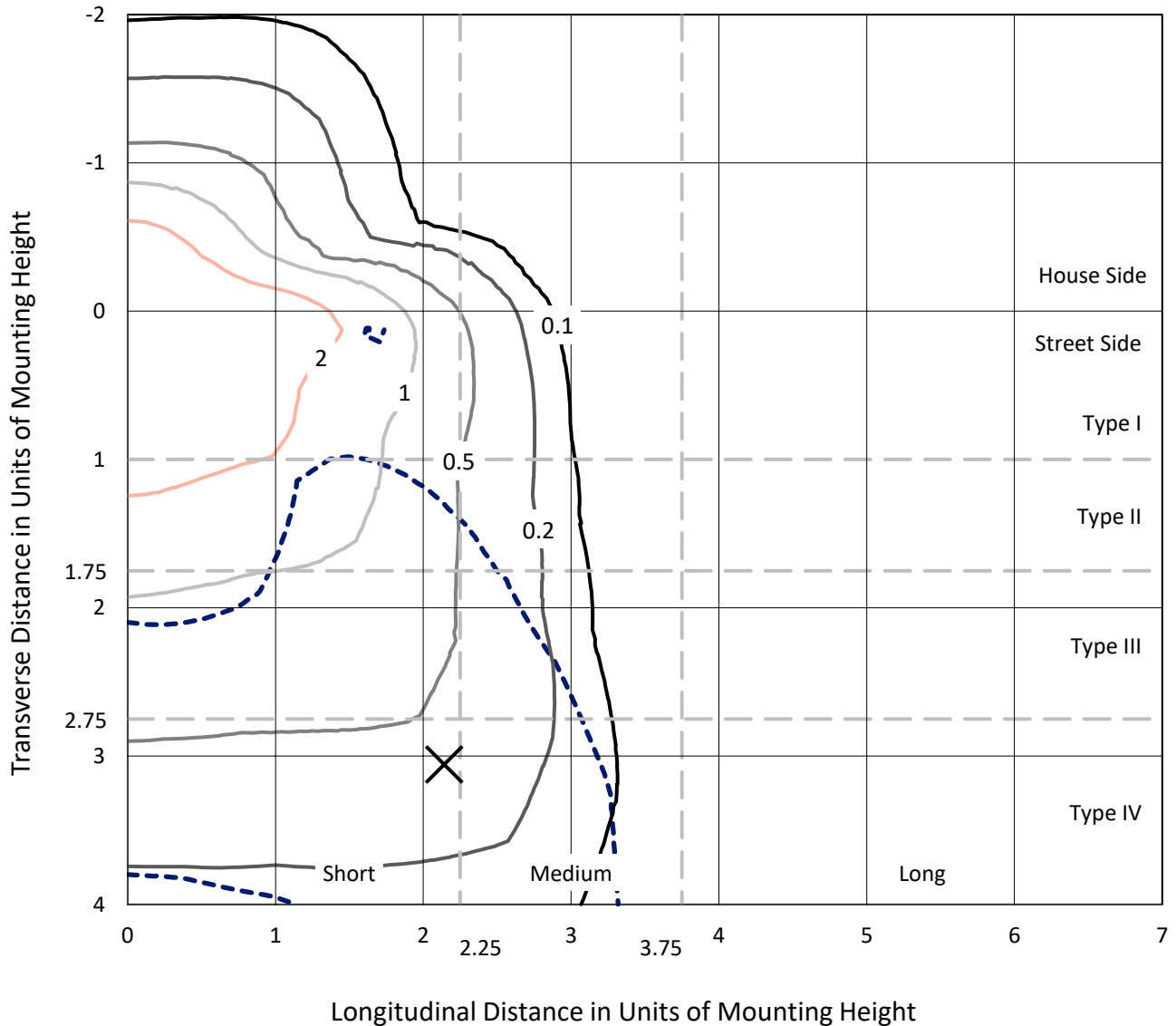
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

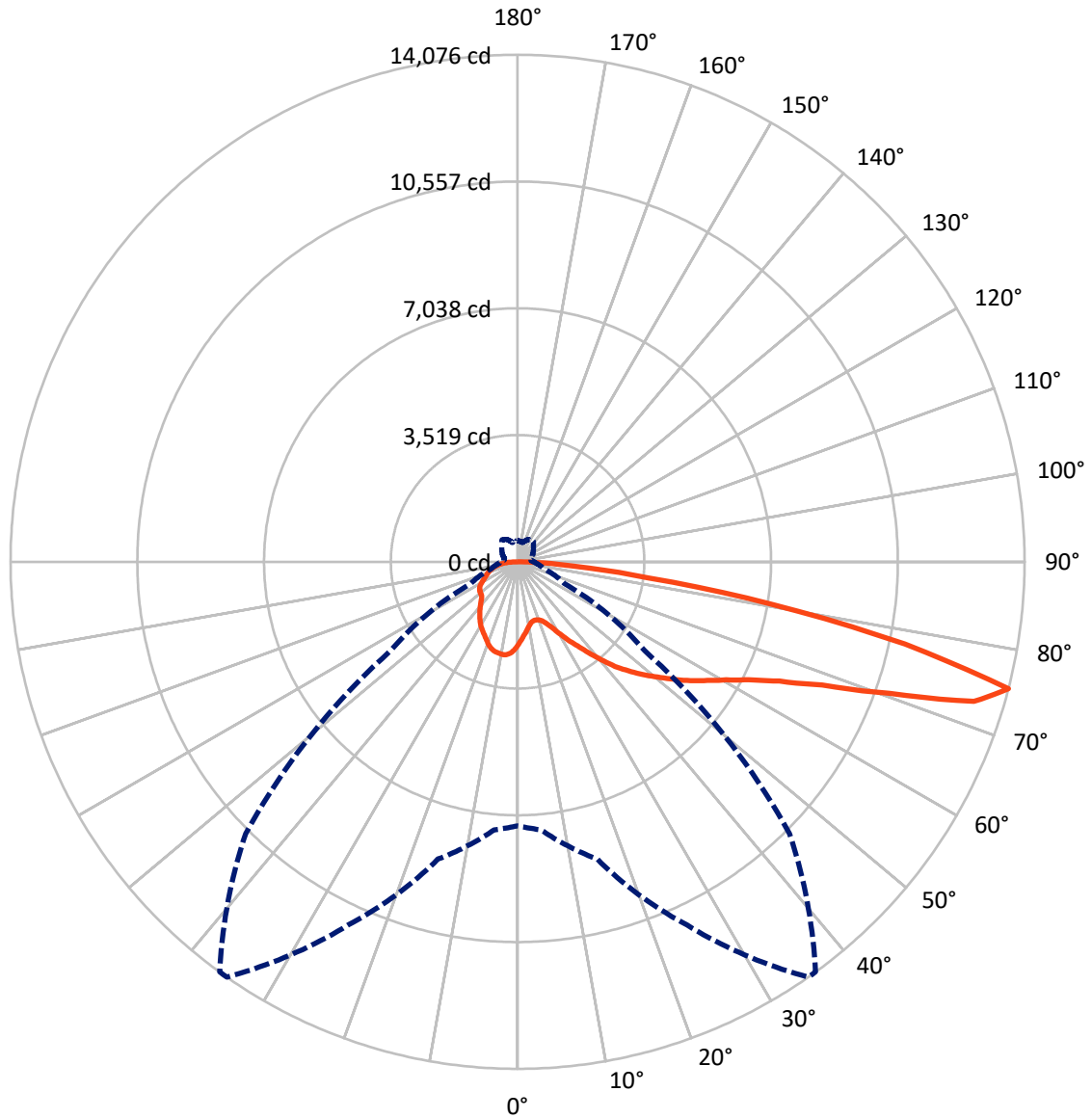
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4109.8	0.0	4109.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	13160.2	0.0	13160.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	17270.0	0.0	17270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.9	1.3
10°-20°	628.5	3.6
20°-30°	1055.4	6.1
30°-40°	1640.2	9.5
40°-50°	2434.6	14.1
50°-60°	3361.1	19.5
60°-70°	4077.7	23.6
70°-80°	3369.9	19.5
80°-90°	484.7	2.8
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°	17270.0	100.0
0°-180°	17270.0	100.0

**Coefficient of Utilization**



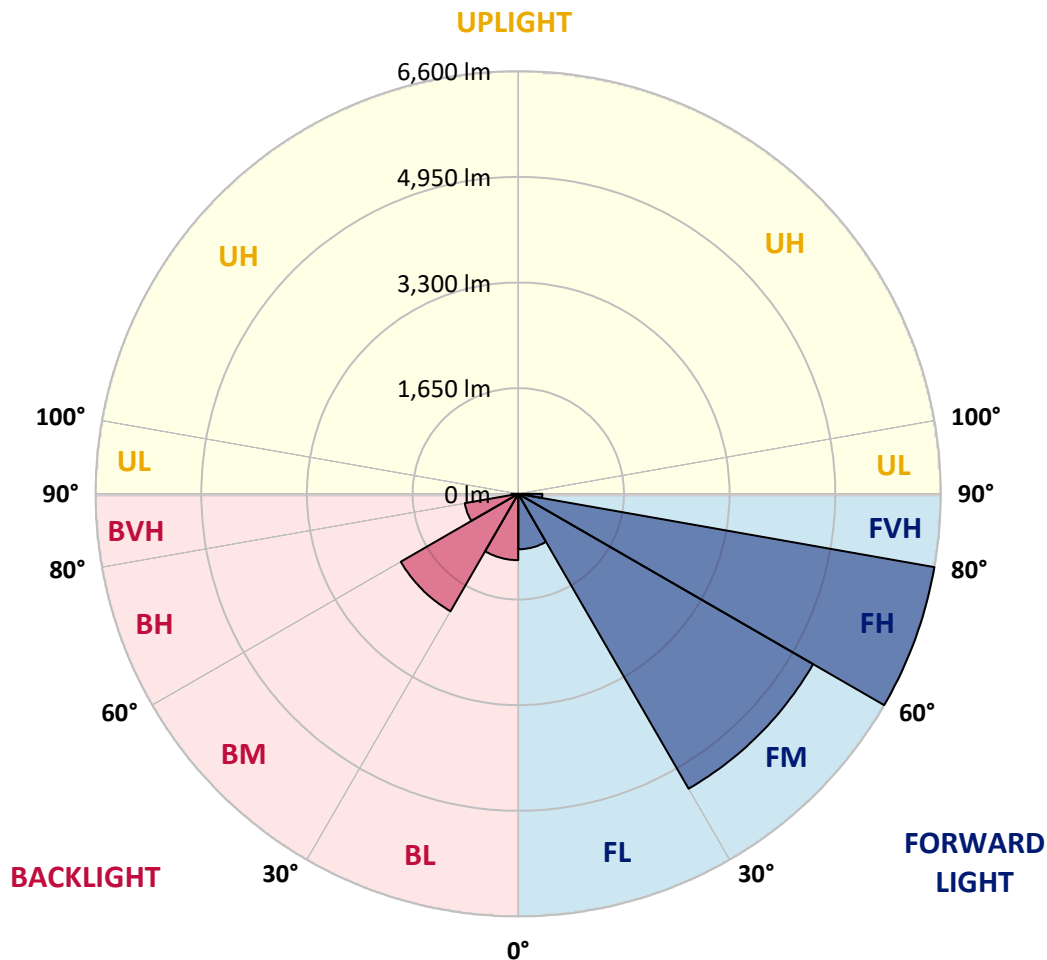
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.1	5.0			
FM (30°-60°)	5318.2	30.8			
FH (60°-80°)	6600.3	38.2			G3/7500
FVH (80°-90°)	375.6	2.2			G3/500
BL (0°-30°)	1035.7	6.0	B3/2500		
BM (30°-60°)	2117.6	12.3	B2/2500		
BH (60°-80°)	847.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	109.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3
2.5°	2122.1	2135.2	2140.8	2138.0	2152.0	2150.1	2169.7	2194.0	2227.6	2260.3
5°	1958.7	1972.7	1984.9	1996.1	2023.1	2031.5	2062.3	2109.0	2170.6	2233.2
7.5°	1806.5	1818.7	1837.3	1857.9	1903.6	1912.0	1963.4	2036.2	2122.1	2213.6
10°	1682.4	1694.5	1714.1	1737.4	1794.4	1804.7	1870.0	1967.1	2079.1	2194.9
12.5°	1629.1	1632.9	1644.1	1667.4	1716.9	1723.4	1795.3	1906.4	2037.1	2180.9
15°	1626.3	1633.8	1634.7	1646.9	1688.0	1690.8	1757.1	1867.2	2011.0	2178.1
17.5°	1654.4	1660.0	1651.6	1659.0	1693.6	1698.2	1750.5	1848.5	2002.6	2190.2
20°	1729.0	1733.7	1708.5	1698.2	1723.4	1727.2	1778.5	1860.7	2011.0	2215.5
22.5°	1887.8	1890.6	1828.9	1786.9	1788.8	1790.7	1835.5	1910.2	2043.7	2261.2
25°	2135.2	2133.3	2035.3	1954.0	1907.4	1897.1	1927.0	1990.5	2098.8	2321.9
27.5°	2424.6	2410.6	2312.5	2191.2	2089.4	2074.5	2067.9	2095.0	2177.2	2402.2
30°	2751.3	2738.3	2632.8	2474.1	2333.1	2308.8	2247.2	2233.2	2293.9	2511.4
32.5°	3109.8	3101.4	2975.4	2783.1	2594.5	2566.5	2462.9	2425.5	2473.1	2676.7
35°	3410.5	3403.0	3298.4	3100.5	2869.9	2835.4	2729.9	2687.9	2712.1	2888.6
37.5°	3682.2	3678.4	3588.8	3432.9	3194.8	3152.8	3034.2	3020.2	3015.6	3167.7
40°	3934.2	3924.9	3831.5	3749.4	3572.9	3534.6	3430.1	3417.9	3382.5	3511.3
42.5°	4213.4	4189.1	4053.7	4015.4	3967.8	3936.1	3873.5	3875.4	3797.0	3898.7
45°	4441.2	4427.2	4288.1	4265.7	4317.0	4303.9	4358.1	4372.1	4219.9	4304.9
47.5°	4685.8	4672.7	4555.1	4539.2	4678.3	4682.0	4873.4	4878.1	4632.6	4726.9
50°	4987.3	4968.7	4852.0	4871.6	5027.5	5041.5	5391.6	5359.8	5012.5	5155.4
52.5°	5186.2	5197.4	5172.2	5203.9	5416.8	5429.9	5901.3	5820.1	5388.8	5578.3
55°	5332.8	5355.2	5433.6	5506.4	5827.6	5840.7	6382.1	6258.0	5700.6	5970.4
57.5°	5521.4	5489.6	5636.2	5778.1	6217.8	6252.4	6849.9	6680.0	5977.0	6308.4
60°	5792.1	5769.7	5883.6	6093.7	6654.8	6709.8	7344.7	7059.9	6179.6	6576.3
62.5°	6341.1	6285.1	6302.8	6488.6	7205.6	7278.4	7903.0	7391.4	6280.4	6680.9
65°	7161.7	7065.5	6975.9	7104.8	7981.4	8053.3	8533.2	7651.9	6243.0	6478.3
67.5°	8195.2	8100.0	7989.8	8111.2	9124.2	9181.1	9310.9	7798.4	5949.0	5697.8
70°	9047.6	9012.1	9143.8	9643.2	10949.4	10951.2	10308.0	7677.1	5143.2	4039.7
72.5°	8934.6	8913.2	9606.8	11151.0	13249.8	13200.3	11251.8	6758.4	3464.6	1822.4
75°	7329.8	7468.9	8543.4	11123.9	14076.0	14069.5	10673.9	4296.5	1433.1	755.3
77.5°	3930.5	4150.8	5546.6	8213.0	10988.6	11153.8	7504.3	1503.1	615.2	483.6
80°	1281.8	1474.2	2210.8	4181.6	7140.2	7109.4	3216.3	590.0	421.1	342.6
82.5°	544.3	566.7	987.8	1974.6	3664.4	3607.5	1024.2	338.9	296.0	234.3
85°	212.9	238.1	436.0	913.1	1587.1	1552.6	369.7	168.0	189.5	153.1
87.5°	70.0	85.0	155.9	312.8	493.9	476.1	90.6	57.9	82.2	70.0
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2301.3	0°	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3
2307.9	2.5°	2321.0	2335.9	2353.6	2379.8	2402.2	2420.8	2440.5	2452.6	2457.3	2471.3
2311.6	5°	2337.8	2370.4	2414.3	2457.3	2499.3	2524.5	2546.9	2558.1	2568.4	2575.8
2321.9	7.5°	2365.8	2407.8	2476.9	2532.9	2568.4	2588.9	2603.8	2600.1	2603.8	2605.7
2333.1	10°	2390.0	2448.9	2531.0	2584.2	2611.3	2612.2	2608.5	2595.4	2588.9	2589.8
2349.9	12.5°	2419.0	2484.3	2573.0	2617.8	2625.3	2604.8	2588.9	2566.5	2558.1	2554.4
2375.1	15°	2458.2	2532.9	2618.8	2635.6	2616.9	2590.8	2563.7	2527.3	2508.6	2493.7
2418.0	17.5°	2505.8	2588.0	2654.2	2642.1	2602.0	2559.0	2515.1	2460.1	2421.8	2405.9
2476.9	20°	2572.1	2645.8	2681.3	2628.1	2567.4	2502.1	2427.4	2360.2	2324.7	2308.8
2551.6	22.5°	2652.4	2723.3	2707.5	2603.8	2517.9	2413.4	2320.0	2270.5	2252.8	2241.6
2647.7	25°	2748.5	2809.2	2726.1	2568.4	2436.7	2295.7	2223.9	2208.0	2199.6	2191.2
2765.3	27.5°	2873.6	2906.3	2740.1	2516.1	2309.7	2170.6	2144.5	2147.3	2144.5	2130.5
2928.7	30°	3038.9	3032.4	2753.2	2431.1	2164.1	2057.7	2059.5	2071.7	2073.5	2064.2
3156.5	32.5°	3256.4	3190.1	2759.7	2321.0	2025.0	1958.7	1960.6	1973.6	1983.0	1967.1
3454.4	35°	3519.7	3374.1	2749.5	2182.8	1917.6	1864.4	1850.4	1854.1	1856.9	1842.0
3815.7	37.5°	3826.9	3580.4	2703.7	2029.7	1828.9	1772.0	1742.1	1716.9	1702.0	1688.0
4224.6	40°	4163.9	3805.4	2619.7	1880.3	1730.0	1674.0	1629.1	1581.5	1531.1	1512.4
4657.8	42.5°	4516.8	4036.9	2517.9	1737.4	1616.1	1570.3	1522.7	1453.6	1378.0	1339.7
5107.8	45°	4882.8	4274.1	2418.0	1596.5	1499.4	1479.8	1424.7	1341.6	1259.4	1210.9
5558.7	47.5°	5241.3	4498.1	2271.5	1454.6	1390.1	1411.6	1368.7	1292.1	1200.6	1124.1
6005.9	50°	5583.9	4708.2	2031.5	1310.8	1301.4	1391.1	1350.0	1239.8	1135.3	1037.2
6444.7	52.5°	5923.7	4878.1	1724.4	1180.1	1253.8	1385.5	1325.7	1204.4	1076.5	973.8
6857.4	55°	6212.2	4965.9	1428.4	1068.0	1184.7	1337.9	1296.8	1162.3	993.4	884.1
7140.2	57.5°	6376.5	4894.9	1181.9	957.9	1089.5	1259.4	1247.3	1072.7	894.4	810.4
7195.3	60°	6305.6	4607.4	980.3	861.7	999.0	1174.5	1161.4	984.0	818.8	739.4
6900.3	62.5°	5914.4	4059.3	820.6	777.7	916.8	1087.7	1075.5	915.9	760.9	684.3
6117.0	65°	5126.4	3302.2	696.5	707.7	833.7	983.1	1000.8	858.9	715.1	640.5
4732.5	67.5°	3910.0	2391.9	599.4	647.0	752.5	880.4	931.7	817.8	676.9	605.9
2738.3	70°	2228.5	1358.4	517.2	588.2	680.6	785.2	878.5	785.2	635.8	577.0
1026.0	72.5°	844.9	623.7	447.2	529.4	611.5	704.9	819.7	733.8	588.2	544.3
530.3	75°	450.9	380.0	376.2	460.3	532.2	626.5	746.0	683.4	552.7	575.1
366.9	77.5°	307.2	268.9	314.6	394.0	445.3	539.6	667.5	606.8	478.9	477.1
253.9	80°	212.9	190.5	255.8	317.4	344.5	453.7	582.6	521.0	390.2	364.1
156.8	82.5°	127.9	124.2	191.4	237.1	243.7	350.1	482.7	436.9	319.3	278.2
93.4	85°	70.0	73.8	122.3	139.1	141.9	244.6	378.1	338.0	245.5	206.3
33.6	87.5°	19.6	25.2	44.8	55.1	68.2	127.0	225.0	200.7	123.2	85.9
0.0	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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180°
2301.3
2470.3
2577.7
2608.5
2591.7
2552.5
2498.3
2406.8
2306.9
2243.5
2191.2
2133.3
2068.9
1974.6
1852.3
1697.3
1520.8
1344.4
1207.2
1115.7
1028.8
962.6
874.8
799.2
728.2
672.2
628.3
594.7
569.5
536.8
593.8
439.7
348.2
280.1
208.2
85.9
0.0

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