

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: P852513

Luminaire Tested: **GLAN-SB4B-850-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852513
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-SB4B-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19153 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

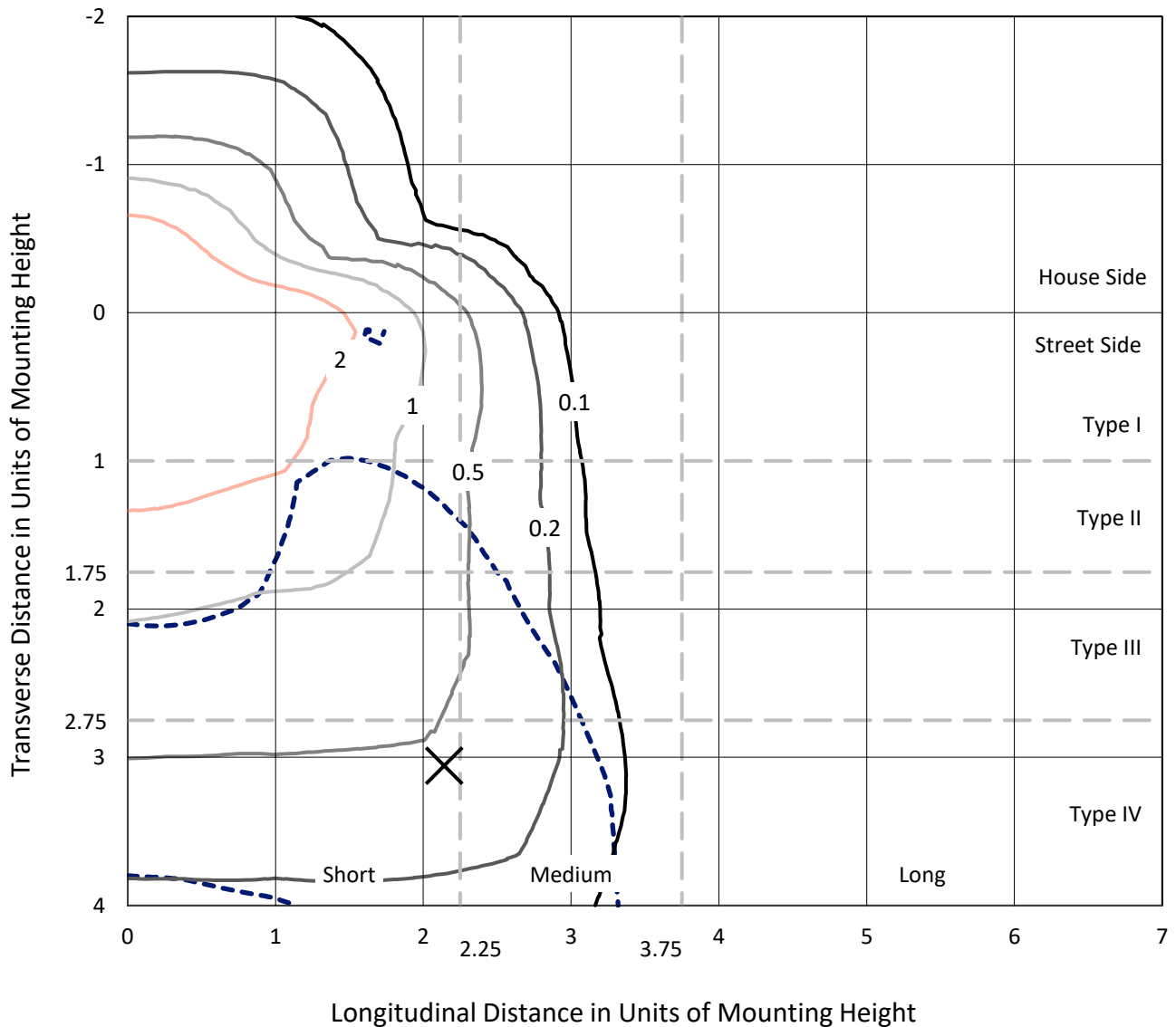
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

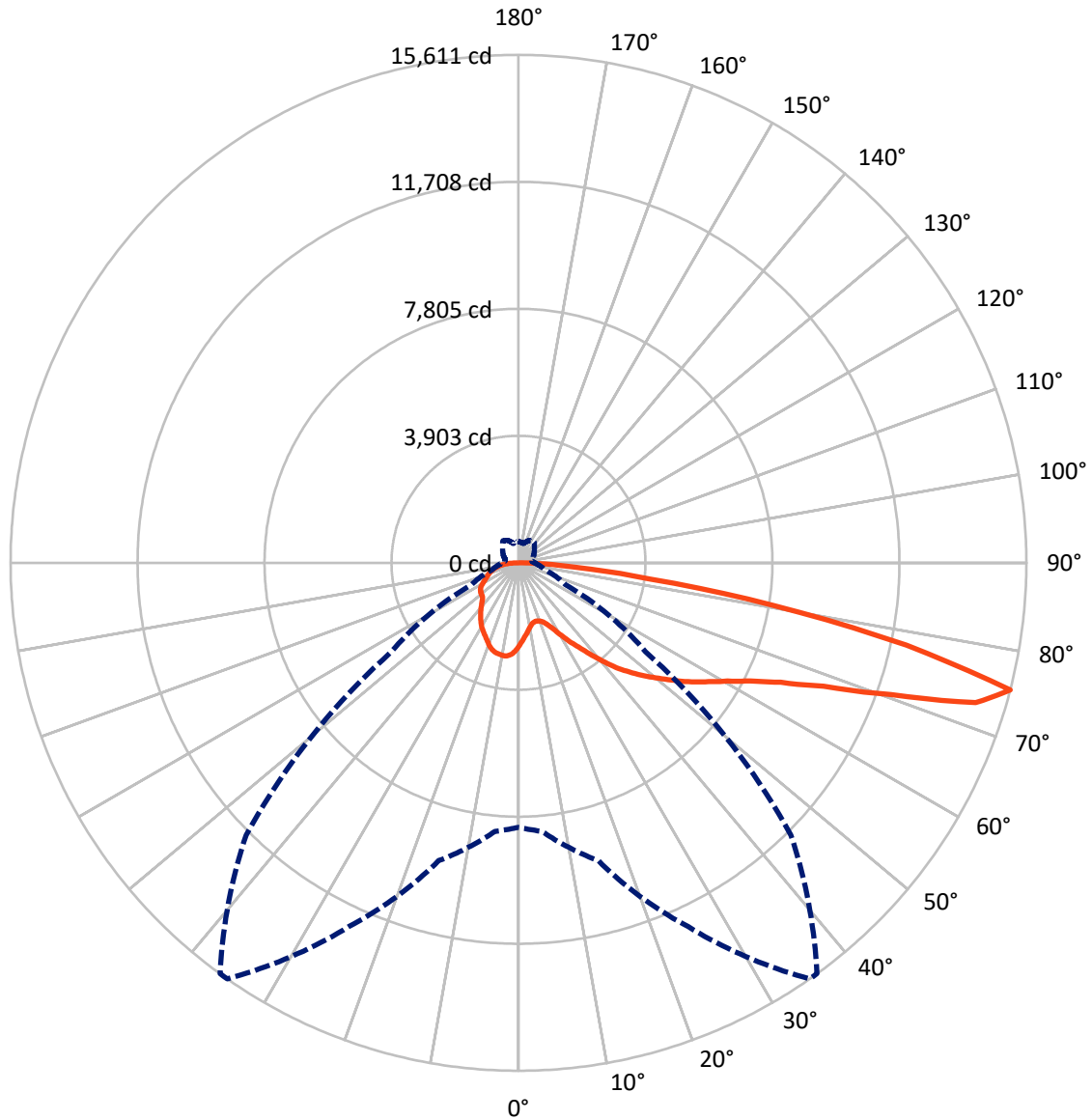
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	4557.9	0.0	4557.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14595.1	0.0	14595.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	19153.0	0.0	19153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.3
10°-20°	697.0	3.6
20°-30°	1170.5	6.1
30°-40°	1819.1	9.5
40°-50°	2700.0	14.1
50°-60°	3727.5	19.5
60°-70°	4522.3	23.6
70°-80°	3737.4	19.5
80°-90°	537.5	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°	19153.0	100.0
0°-180°	19153.0	100.0

Coefficient of Utilization



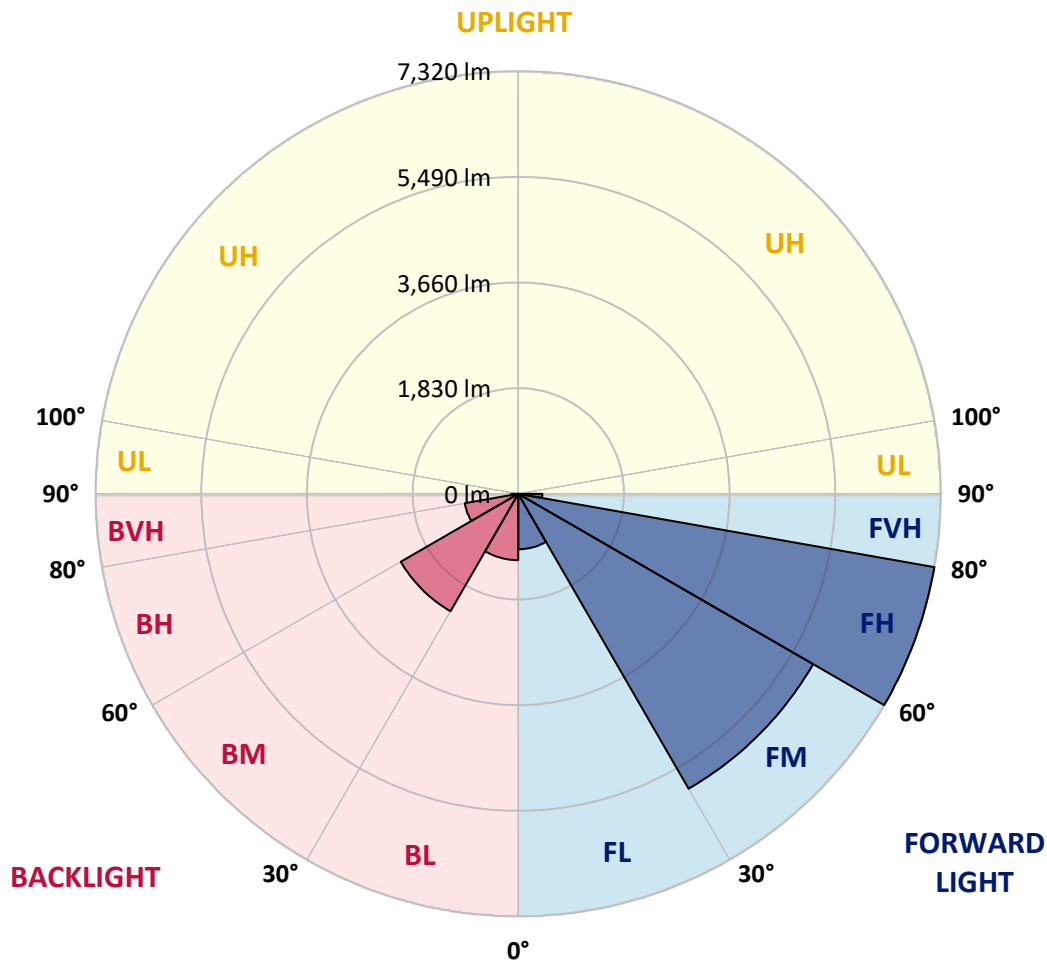
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.5	5.0			
FM (30°-60°)	5898.1	30.8			
FH (60°-80°)	7320.0	38.2			G3/7500
FVH (80°-90°)	416.5	2.2			G3/500
BL (0°-30°)	1148.7	6.0	B3/2500		
BM (30°-60°)	2348.5	12.3	B2/2500		
BH (60°-80°)	939.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	121.0	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°	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3
2.5°	2353.5	2368.0	2374.2	2371.1	2386.6	2384.5	2406.3	2433.2	2470.5	2506.7
5°	2172.3	2187.8	2201.3	2213.7	2243.7	2253.0	2287.2	2339.0	2407.3	2476.7
7.5°	2003.5	2017.0	2037.7	2060.5	2111.2	2120.5	2177.5	2258.2	2353.5	2454.9
10°	1865.8	1879.3	1901.0	1926.9	1990.0	2001.4	2073.9	2181.6	2305.8	2434.2
12.5°	1806.8	1810.9	1823.3	1849.2	1904.1	1911.4	1991.1	2114.3	2259.2	2418.7
15°	1803.7	1812.0	1813.0	1826.4	1872.0	1875.1	1948.6	2070.8	2230.3	2415.6
17.5°	1834.7	1840.9	1831.6	1839.9	1878.2	1883.4	1941.4	2050.1	2220.9	2429.1
20°	1917.6	1922.7	1894.8	1883.4	1911.4	1915.5	1972.4	2063.6	2230.3	2457.0
22.5°	2093.6	2096.7	2028.4	1981.8	1983.8	1985.9	2035.6	2118.4	2266.5	2507.7
25°	2368.0	2365.9	2257.2	2167.1	2115.3	2103.9	2137.1	2207.5	2327.6	2575.0
27.5°	2688.9	2673.4	2564.7	2430.1	2317.2	2300.7	2293.4	2323.4	2414.6	2664.1
30°	3051.3	3036.8	2919.8	2743.8	2587.5	2560.6	2492.2	2476.7	2544.0	2785.2
32.5°	3448.9	3439.6	3299.8	3086.5	2877.4	2846.3	2731.4	2690.0	2742.8	2968.5
35°	3782.3	3774.0	3658.1	3438.6	3182.8	3144.5	3027.5	2980.9	3007.8	3203.5
37.5°	4083.6	4079.5	3980.1	3807.2	3543.1	3496.6	3365.1	3349.5	3344.3	3513.1
40°	4363.2	4352.8	4249.3	4158.2	3962.5	3920.0	3804.1	3790.6	3751.3	3894.1
42.5°	4672.8	4645.9	4495.7	4453.3	4400.5	4365.3	4295.9	4298.0	4211.0	4323.8
45°	4925.4	4909.9	4755.6	4730.8	4787.7	4773.2	4833.3	4848.8	4680.0	4774.2
47.5°	5196.7	5182.2	5051.7	5034.1	5188.4	5192.5	5404.8	5410.0	5137.7	5242.2
50°	5531.1	5510.4	5381.0	5402.7	5575.6	5591.2	5979.4	5944.2	5559.1	5717.5
52.5°	5751.7	5764.1	5736.1	5771.3	6007.4	6021.9	6544.8	6454.7	5976.3	6186.5
55°	5914.2	5939.1	6026.0	6106.8	6463.0	6477.5	7078.0	6940.3	6322.2	6621.4
57.5°	6123.4	6088.2	6250.7	6408.1	6895.8	6934.1	7596.7	7408.3	6628.6	6996.2
60°	6423.6	6398.8	6525.1	6758.1	7380.3	7441.4	8145.5	7829.7	6853.3	7293.4
62.5°	7032.5	6970.3	6990.0	7196.0	7991.2	8072.0	8764.7	8197.3	6965.2	7409.3
65°	7942.6	7835.9	7736.5	7879.4	8851.7	8931.4	9463.6	8486.2	6923.7	7184.7
67.5°	9088.8	8983.2	8861.0	8995.6	10119.0	10182.1	10326.1	8648.7	6597.6	6319.1
70°	10034.1	9994.7	10140.7	10694.7	12143.2	12145.3	11431.9	8514.1	5704.0	4480.2
72.5°	9908.8	9885.0	10654.3	12366.8	14694.4	14639.6	12478.7	7495.3	3842.4	2021.1
75°	8128.9	8283.2	9475.0	12336.8	15610.8	15603.5	11837.8	4764.9	1589.3	837.6
77.5°	4359.0	4603.4	6151.3	9108.4	12186.7	12370.0	8322.6	1667.0	682.3	536.3
80°	1421.6	1634.9	2451.8	4637.6	7918.8	7884.6	3567.0	654.4	467.0	380.0
82.5°	603.6	628.5	1095.5	2189.9	4064.0	4000.8	1135.8	375.9	328.2	259.9
85°	236.1	264.0	483.5	1012.6	1760.2	1721.9	410.0	186.4	210.2	169.8
87.5°	77.7	94.2	172.9	346.9	547.7	528.1	100.4	64.2	91.1	77.7
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°
2552.3	0°	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3
2559.5	2.5°	2574.0	2590.6	2610.2	2639.2	2664.1	2684.8	2706.5	2720.0	2725.2	2740.7
2563.7	5°	2592.6	2628.9	2677.6	2725.2	2771.8	2799.7	2824.6	2837.0	2848.4	2856.7
2575.0	7.5°	2623.7	2670.3	2746.9	2809.0	2848.4	2871.2	2887.7	2883.6	2887.7	2889.8
2587.5	10°	2650.6	2715.9	2807.0	2866.0	2896.0	2897.1	2892.9	2878.4	2871.2	2872.2
2606.1	12.5°	2682.7	2755.2	2853.6	2903.3	2911.6	2888.8	2871.2	2846.3	2837.0	2832.9
2634.1	15°	2726.2	2809.0	2904.3	2922.9	2902.2	2873.2	2843.2	2802.8	2782.1	2765.6
2681.7	17.5°	2779.0	2870.1	2943.6	2930.2	2885.7	2838.0	2789.4	2728.3	2685.8	2668.2
2746.9	20°	2852.5	2934.3	2973.7	2914.7	2847.4	2774.9	2692.0	2617.5	2578.2	2560.6
2829.8	22.5°	2941.6	3020.3	3002.7	2887.7	2792.5	2676.5	2573.0	2518.1	2498.4	2486.0
2936.4	25°	3048.2	3115.5	3023.4	2848.4	2702.4	2546.1	2466.3	2448.7	2439.4	2430.1
3066.9	27.5°	3187.0	3223.2	3038.9	2790.4	2561.6	2407.3	2378.3	2381.4	2378.3	2362.8
3248.1	30°	3370.2	3363.0	3053.4	2696.2	2400.1	2282.0	2284.1	2297.6	2299.6	2289.3
3500.7	32.5°	3611.5	3538.0	3060.6	2574.0	2245.8	2172.3	2174.3	2188.8	2199.2	2181.6
3831.0	35°	3903.5	3741.9	3049.3	2420.8	2126.7	2067.7	2052.2	2056.3	2059.4	2042.8
4231.7	37.5°	4244.1	3970.8	2998.5	2251.0	2028.4	1965.2	1932.1	1904.1	1887.5	1872.0
4685.2	40°	4617.9	4220.3	2905.3	2085.3	1918.6	1856.5	1806.8	1754.0	1698.1	1677.4
5165.6	42.5°	5009.3	4477.1	2792.5	1926.9	1792.3	1741.5	1688.7	1612.1	1528.3	1485.8
5664.7	45°	5415.2	4740.1	2681.7	1770.5	1662.9	1641.1	1580.0	1487.9	1396.8	1342.9
6164.8	47.5°	5812.7	4988.6	2519.1	1613.2	1541.7	1565.5	1517.9	1433.0	1331.5	1246.6
6660.7	50°	6192.7	5221.5	2253.0	1453.7	1443.4	1542.7	1497.2	1375.0	1259.0	1150.3
7147.4	52.5°	6569.6	5410.0	1912.4	1308.7	1390.5	1536.5	1470.3	1335.7	1193.8	1079.9
7605.0	55°	6889.6	5507.3	1584.2	1184.5	1313.9	1483.7	1438.2	1289.1	1101.7	980.5
7918.8	57.5°	7071.8	5428.6	1310.8	1062.3	1208.3	1396.8	1383.3	1189.7	991.9	898.7
7979.8	60°	6993.1	5109.7	1087.2	955.7	1107.9	1302.5	1288.0	1091.3	908.0	820.0
7652.7	62.5°	6559.3	4501.9	910.1	862.5	1016.8	1206.2	1192.8	1015.7	843.9	758.9
6784.0	65°	5685.4	3662.2	772.4	784.8	924.6	1090.3	1110.0	952.6	793.1	710.3
5248.5	67.5°	4336.3	2652.7	664.7	717.5	834.5	976.4	1033.3	907.0	750.7	672.0
3036.8	70°	2471.5	1506.5	573.6	652.3	754.8	870.8	974.3	870.8	705.1	639.9
1137.9	72.5°	937.0	691.6	496.0	587.1	678.2	781.7	909.1	813.8	652.3	603.6
588.1	75°	500.1	421.4	417.3	510.5	590.2	694.8	827.3	757.9	613.0	637.8
406.9	77.5°	340.6	298.2	348.9	436.9	493.9	598.5	740.3	673.0	531.2	529.1
281.6	80°	236.1	211.2	283.7	352.0	382.1	503.2	646.1	577.8	432.8	403.8
173.9	82.5°	141.9	137.7	212.3	263.0	270.2	388.3	535.3	484.6	354.1	308.5
103.5	85°	77.7	81.8	135.6	154.3	157.4	271.3	419.3	374.8	272.3	228.8
37.3	87.5°	21.7	28.0	49.7	61.1	75.6	140.8	249.5	222.6	136.7	95.3
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°
2552.3
2739.7
2858.7
2892.9
2874.3
2830.8
2770.7
2669.3
2558.5
2488.1
2430.1
2365.9
2294.5
2189.9
2054.2
1882.4
1686.7
1491.0
1338.8
1237.3
1141.0
1067.5
970.2
886.3
807.6
745.5
696.8
659.6
631.6
595.4
658.5
487.7
386.2
310.6
230.9
95.3
0.0

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