

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: P852607

Luminaire Tested: **GLAN-SB5A-827-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852607
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-SB5A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17857 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

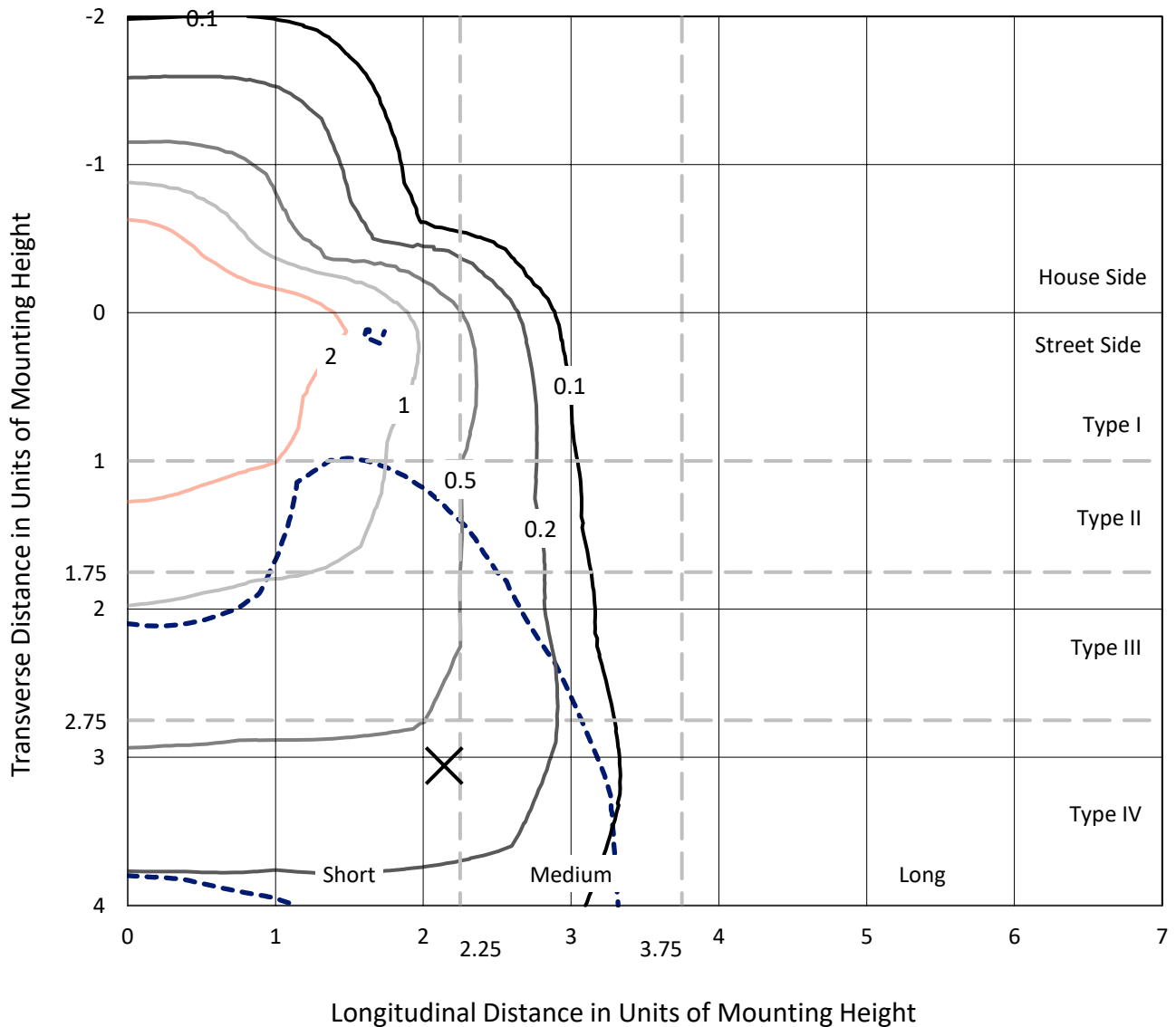
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

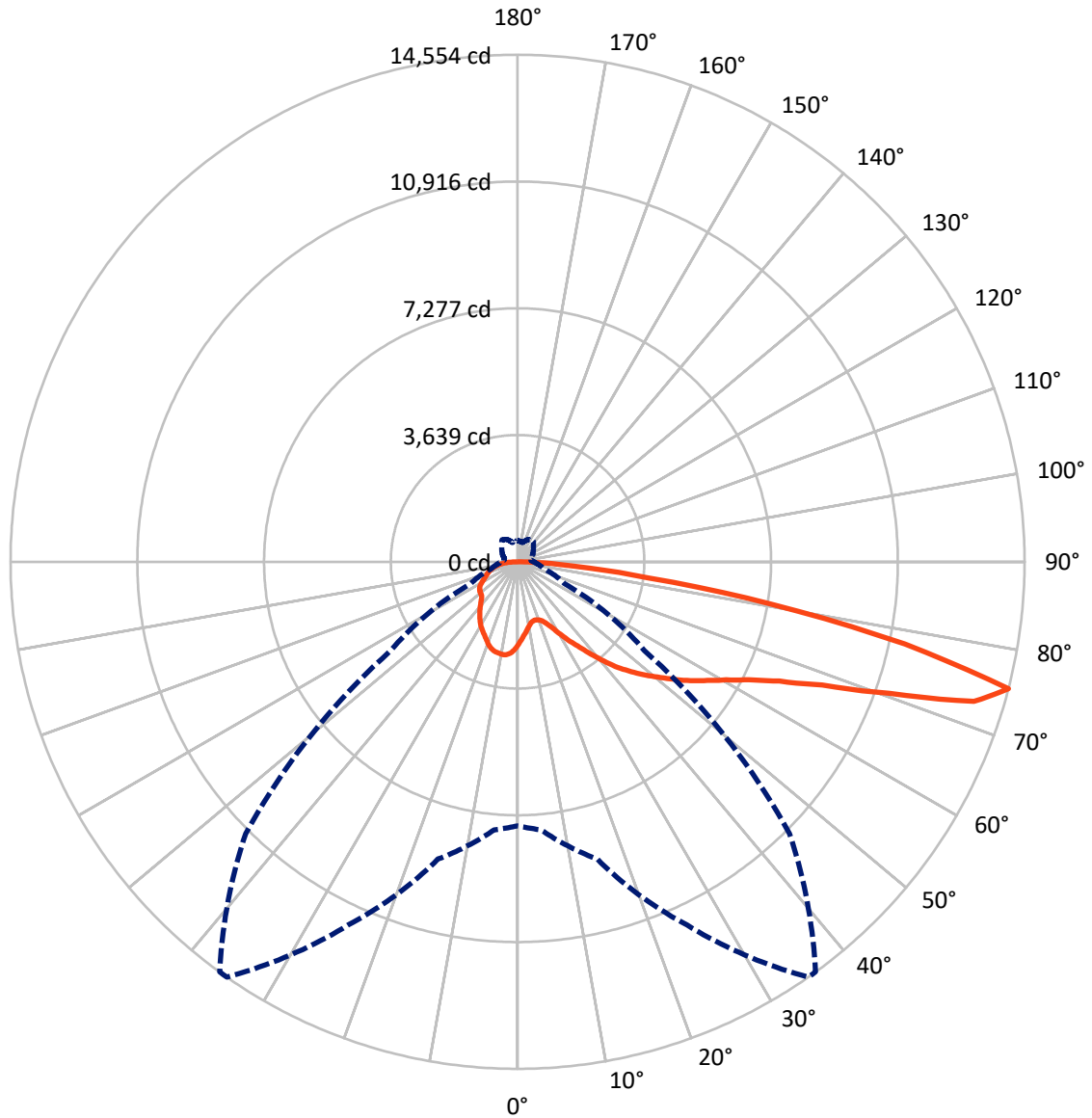
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	4249.5	0.0	4249.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13607.5	0.0	13607.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	17857.0	0.0	17857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	1.3
10°-20°	649.9	3.6
20°-30°	1091.3	6.1
30°-40°	1696.0	9.5
40°-50°	2517.3	14.1
50°-60°	3475.3	19.5
60°-70°	4216.3	23.6
70°-80°	3484.5	19.5
80°-90°	501.2	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°	17857.0	100.0
0°-180°	17857.0	100.0

Coefficient of Utilization



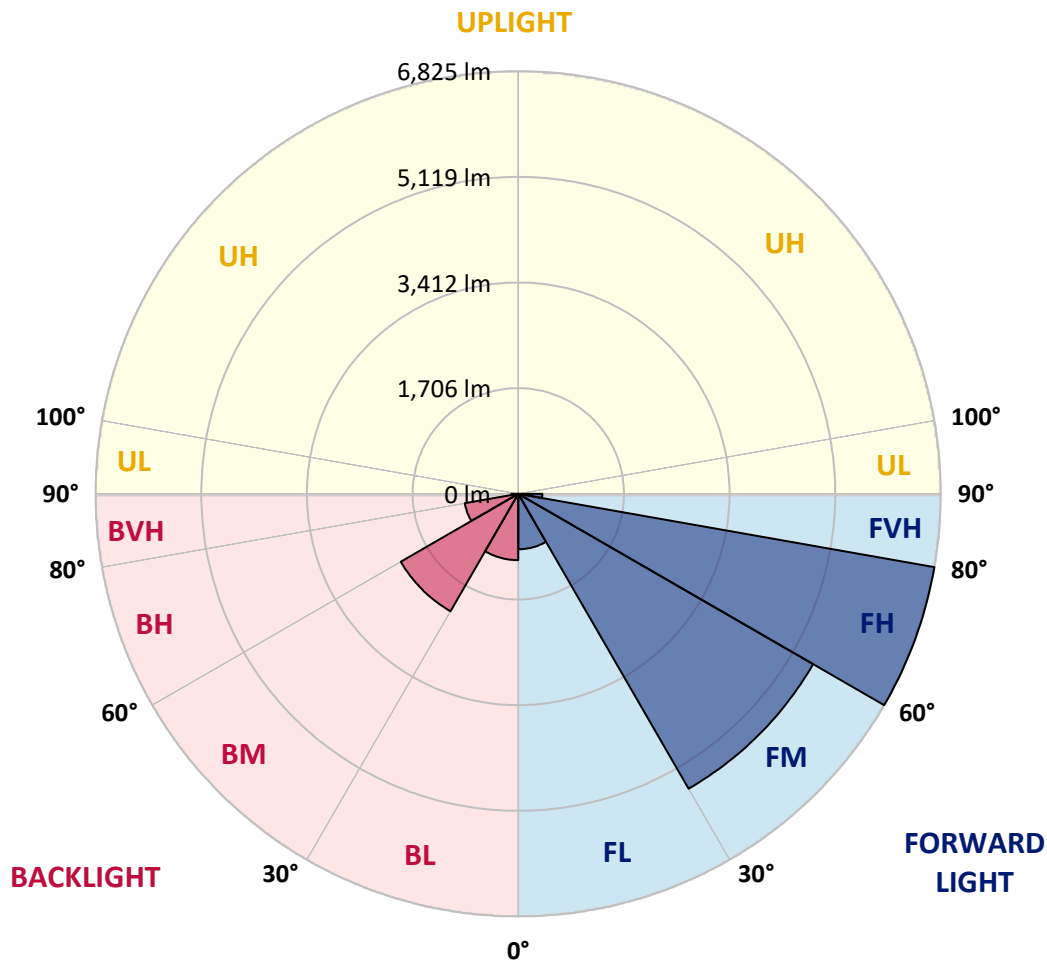
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.5	5.0			
FM (30°-60°)	5499.0	30.8			
FH (60°-80°)	6824.7	38.2			G3/7500
FVH (80°-90°)	388.3	2.2			G3/500
BL (0°-30°)	1070.9	6.0	B3/2500		
BM (30°-60°)	2189.6	12.3	B2/2500		
BH (60°-80°)	876.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	112.9	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°	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6
2.5°	2194.2	2207.7	2213.5	2210.6	2225.1	2223.2	2243.5	2268.6	2303.3	2337.1
5°	2025.3	2039.8	2052.3	2063.9	2091.9	2100.6	2132.4	2180.7	2244.4	2309.1
7.5°	1867.9	1880.5	1899.8	1921.0	1968.3	1977.0	2030.1	2105.4	2194.2	2288.8
10°	1739.5	1752.1	1772.4	1796.5	1855.4	1866.0	1933.6	2034.0	2149.8	2269.5
12.5°	1684.5	1688.4	1700.0	1724.1	1775.3	1782.0	1856.4	1971.2	2106.4	2255.0
15°	1681.6	1689.3	1690.3	1702.9	1745.3	1748.2	1816.8	1930.7	2079.3	2252.1
17.5°	1710.6	1716.4	1707.7	1715.4	1751.1	1756.0	1810.0	1911.4	2070.7	2264.7
20°	1787.8	1792.6	1766.6	1756.0	1782.0	1785.9	1839.0	1923.9	2079.3	2290.8
22.5°	1951.9	1954.8	1891.1	1847.7	1849.6	1851.5	1897.9	1975.1	2113.1	2338.1
25°	2207.7	2205.8	2104.4	2020.5	1972.2	1961.6	1992.5	2058.1	2170.1	2400.8
27.5°	2507.0	2492.5	2391.2	2265.7	2160.4	2145.0	2138.2	2166.2	2251.2	2483.8
30°	2844.9	2831.3	2722.3	2558.2	2412.4	2387.3	2323.6	2309.1	2371.8	2596.8
32.5°	3215.6	3206.9	3076.5	2877.7	2682.7	2653.7	2546.6	2508.0	2557.2	2767.6
35°	3526.4	3518.7	3410.6	3205.9	2967.5	2931.7	2822.7	2779.2	2804.3	2986.8
37.5°	3807.3	3803.4	3710.8	3549.6	3303.4	3260.0	3137.4	3122.9	3118.1	3275.4
40°	4067.9	4058.3	3961.8	3876.8	3694.4	3654.8	3546.7	3534.1	3497.4	3630.6
42.5°	4356.6	4331.5	4191.5	4151.9	4102.7	4069.9	4005.2	4007.1	3926.0	4031.3
45°	4592.1	4577.6	4433.8	4410.6	4463.7	4450.2	4506.2	4520.7	4363.3	4451.2
47.5°	4845.0	4831.5	4709.9	4693.5	4837.3	4841.2	5039.1	5043.9	4790.0	4887.5
50°	5156.9	5137.5	5016.9	5037.2	5198.4	5212.8	5574.8	5542.0	5182.9	5330.6
52.5°	5362.5	5374.1	5348.0	5380.8	5600.9	5614.4	6101.9	6017.9	5571.9	5767.9
55°	5514.0	5537.2	5618.3	5693.6	6025.7	6039.2	6599.1	6470.7	5894.4	6173.4
57.5°	5709.0	5676.2	5827.8	5974.5	6429.2	6464.9	7082.7	6907.0	6180.1	6522.8
60°	5989.0	5965.8	6083.6	6300.8	6881.0	6937.9	7594.3	7299.9	6389.6	6799.9
62.5°	6556.6	6498.7	6517.0	6709.1	7450.5	7525.8	8171.6	7642.6	6493.9	6908.0
65°	7405.1	7305.7	7213.0	7346.2	8252.7	8327.0	8823.2	7911.9	6455.2	6698.5
67.5°	8473.8	8375.3	8261.4	8386.9	9434.3	9493.2	9627.3	8063.5	6151.2	5891.5
70°	9355.1	9318.4	9454.6	9971.0	11321.5	11323.5	10658.3	7938.0	5318.1	4177.0
72.5°	9238.3	9216.1	9933.4	11530.0	13700.1	13649.0	11634.3	6988.1	3582.4	1884.3
75°	7578.9	7722.7	8833.8	11502.0	14554.4	14547.7	11036.7	4442.5	1481.8	781.0
77.5°	4064.1	4291.9	5735.1	8492.1	11362.1	11532.9	7759.4	1554.2	636.2	500.0
80°	1325.4	1524.3	2285.9	4323.8	7382.9	7351.1	3325.6	610.1	435.4	354.3
82.5°	562.8	586.0	1021.3	2041.7	3789.0	3730.1	1059.0	350.4	306.0	242.3
85°	220.1	246.2	450.8	944.1	1641.1	1605.4	382.3	173.8	196.0	158.3
87.5°	72.4	87.8	161.2	323.4	510.7	492.3	93.6	59.9	85.0	72.4
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2379.6	0°	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6
2386.3	2.5°	2399.8	2415.3	2433.6	2460.7	2483.8	2503.1	2523.4	2536.0	2540.8	2555.3
2390.2	5°	2417.2	2451.0	2496.4	2540.8	2584.2	2610.3	2633.5	2645.0	2655.7	2663.4
2400.8	7.5°	2446.2	2489.6	2561.1	2619.0	2655.7	2676.9	2692.3	2688.5	2692.3	2694.3
2412.4	10°	2471.3	2532.1	2617.0	2672.1	2700.1	2701.0	2697.2	2683.6	2676.9	2677.9
2429.8	12.5°	2501.2	2568.8	2660.5	2706.8	2714.5	2693.3	2676.9	2653.7	2645.0	2641.2
2455.8	15°	2541.7	2619.0	2707.8	2725.2	2705.9	2678.8	2650.8	2613.2	2593.9	2578.4
2500.2	17.5°	2591.0	2675.9	2744.5	2731.9	2690.4	2646.0	2600.6	2543.7	2504.1	2487.7
2561.1	20°	2659.5	2735.8	2772.5	2717.4	2654.7	2587.1	2509.9	2440.4	2403.7	2387.3
2638.3	22.5°	2742.5	2815.9	2799.5	2692.3	2603.5	2495.4	2398.9	2347.7	2329.4	2317.8
2737.7	25°	2842.0	2904.7	2818.8	2655.7	2519.5	2373.8	2299.4	2283.0	2274.3	2265.7
2859.3	27.5°	2971.3	3005.1	2833.3	2601.6	2388.3	2244.4	2217.4	2220.3	2217.4	2202.9
3028.3	30°	3142.2	3135.4	2846.8	2513.7	2237.7	2127.6	2129.5	2142.1	2144.0	2134.4
3263.8	32.5°	3367.1	3298.6	2853.5	2399.8	2093.8	2025.3	2027.2	2040.7	2050.4	2034.0
3571.8	35°	3639.3	3488.7	2842.9	2257.0	1982.8	1927.8	1913.3	1917.2	1920.1	1904.6
3945.3	37.5°	3956.9	3702.1	2795.6	2098.7	1891.1	1832.2	1801.3	1775.3	1759.8	1745.3
4368.2	40°	4305.4	3934.7	2708.7	1944.2	1788.8	1730.9	1684.5	1635.3	1583.2	1563.9
4816.1	42.5°	4670.3	4174.1	2603.5	1796.5	1671.0	1623.7	1574.5	1503.0	1424.8	1385.3
5281.4	45°	5048.7	4419.3	2500.2	1650.7	1550.3	1530.1	1473.1	1387.2	1302.2	1252.0
5747.6	47.5°	5419.4	4651.0	2348.7	1504.0	1437.4	1459.6	1415.2	1336.0	1241.4	1162.3
6210.0	50°	5773.7	4868.2	2100.6	1355.3	1345.7	1438.4	1395.9	1282.0	1173.9	1072.5
6663.8	52.5°	6125.1	5043.9	1783.0	1220.2	1296.5	1432.6	1370.8	1245.3	1113.0	1006.9
7090.4	55°	6423.4	5134.6	1477.0	1104.4	1225.0	1383.3	1340.9	1201.8	1027.1	914.2
7382.9	57.5°	6593.3	5061.3	1222.1	990.4	1126.6	1302.2	1289.7	1109.2	924.8	837.9
7439.9	60°	6519.9	4764.0	1013.6	891.0	1032.9	1214.4	1200.9	1017.5	846.6	764.6
7134.8	62.5°	6115.4	4197.3	848.5	804.1	948.0	1124.6	1112.1	947.0	786.8	707.6
6324.9	65°	5300.7	3414.4	720.1	731.7	862.0	1016.5	1034.8	888.1	739.5	662.2
4893.3	67.5°	4042.8	2473.2	619.7	669.0	778.1	910.3	963.4	845.6	699.9	626.5
2831.3	70°	2304.3	1404.6	534.8	608.2	703.7	811.9	908.4	811.9	657.4	596.6
1060.9	72.5°	873.6	644.8	462.4	547.3	632.3	728.8	847.6	758.8	608.2	562.8
548.3	75°	466.3	392.9	389.0	475.9	550.2	647.7	771.3	706.6	571.5	594.7
379.4	77.5°	317.6	278.0	325.3	407.4	460.5	558.0	690.2	627.5	495.2	493.3
262.6	80°	220.1	196.9	264.5	328.2	356.2	469.2	602.4	538.7	403.5	376.5
162.2	82.5°	132.3	128.4	197.9	245.2	252.0	362.0	499.1	451.8	330.1	287.7
96.5	85°	72.4	76.3	126.5	143.8	146.7	252.9	391.0	349.5	253.9	213.3
34.8	87.5°	20.3	26.1	46.3	57.0	70.5	131.3	232.6	207.5	127.4	88.8
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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<u>180°</u>
2379.6
2554.3
2665.3
2697.2
2679.8
2639.2
2583.3
2488.6
2385.4
2319.7
2265.7
2205.8
2139.2
2041.7
1915.2
1755.0
1572.5
1390.1
1248.2
1153.6
1063.8
995.3
904.5
826.3
753.0
695.0
649.7
614.9
588.9
555.1
614.0
454.7
360.1
289.6
215.3
88.8
0.0

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