

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: McGRAW-EDISON

Report Number: P940999

Luminaire Tested: **GALN-SB4B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19396 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

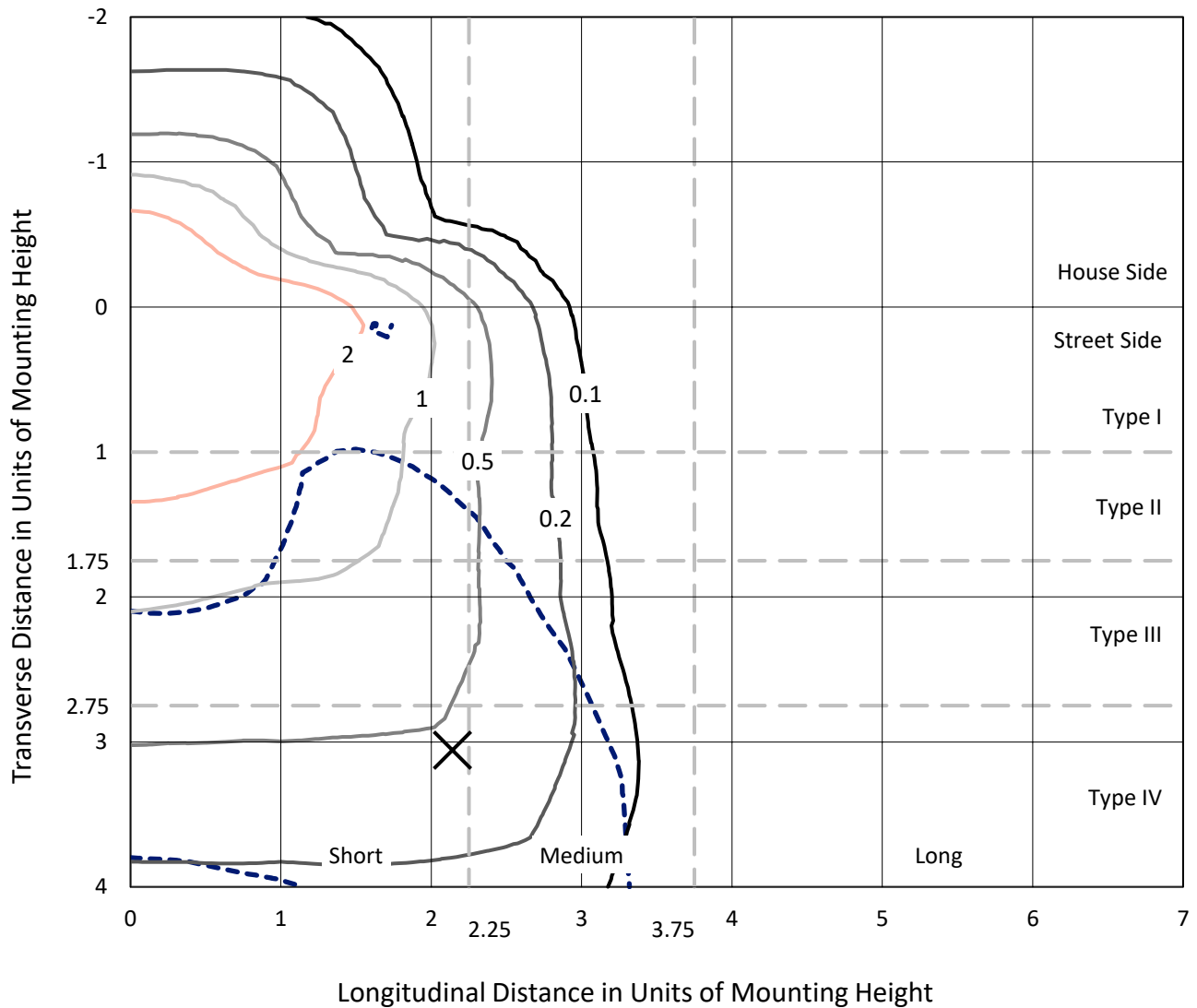
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

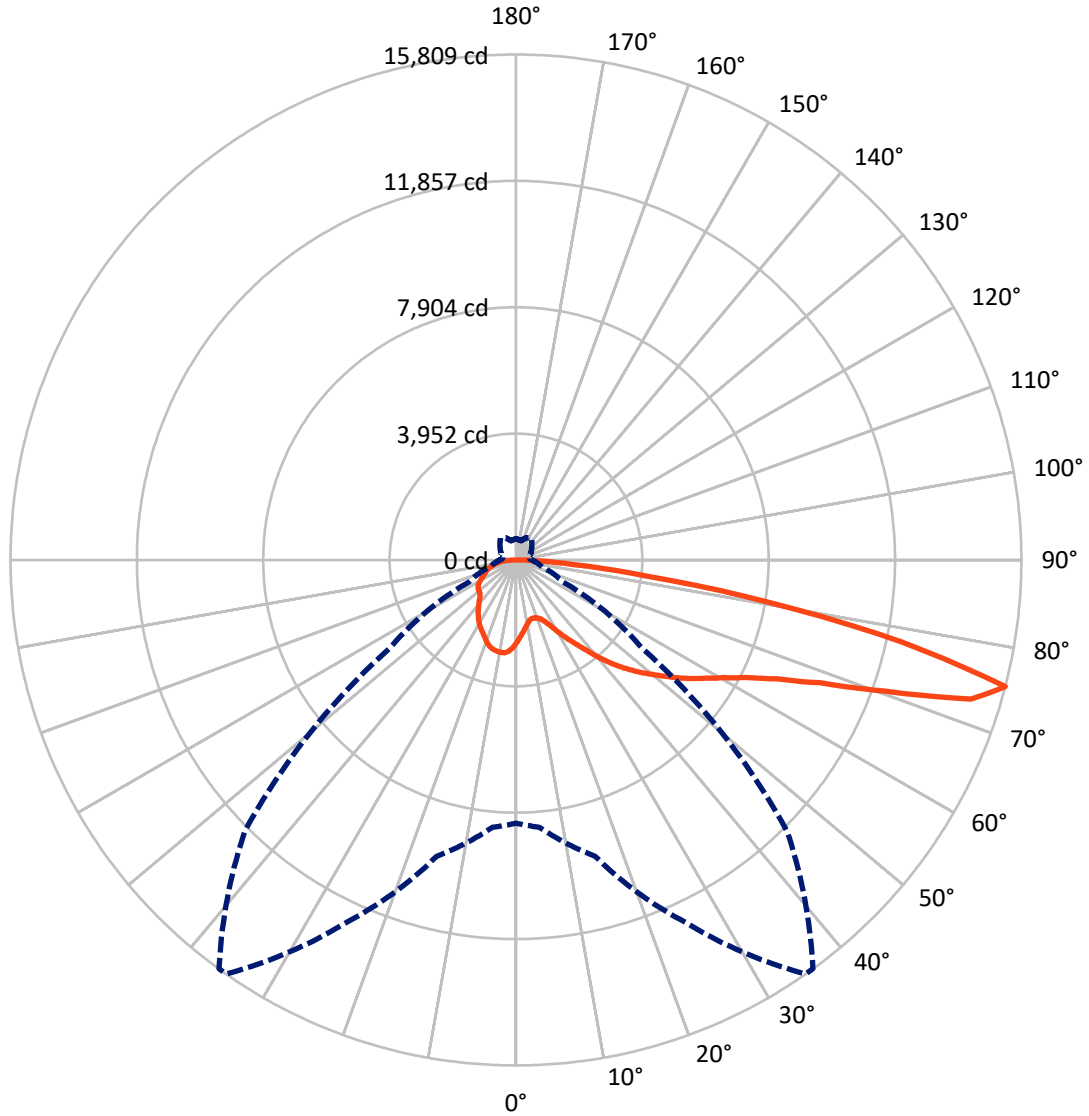
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	4615.8	0.0	4615.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14780.2	0.0	14780.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	19396.0	0.0	19396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.3
10°-20°	705.9	3.6
20°-30°	1185.3	6.1
30°-40°	1842.2	9.5
40°-50°	2734.3	14.1
50°-60°	3774.8	19.5
60°-70°	4579.7	23.6
70°-80°	3784.8	19.5
80°-90°	544.4	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°	19396.0	100.0
0°-180°	19396.0	100.0



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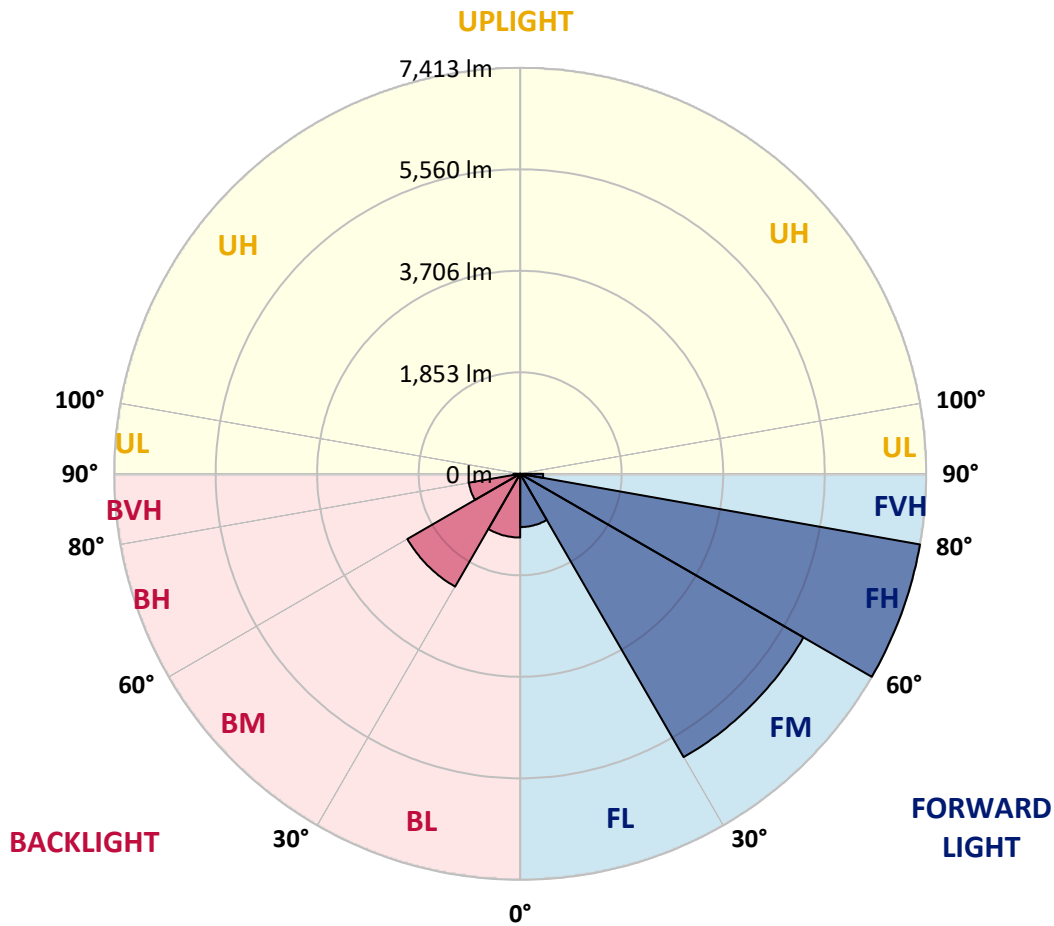
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.7	5.0			
FM (30°-60°)	5972.9	30.8			
FH (60°-80°)	7412.9	38.2			G3/7500
FVH (80°-90°)	421.8	2.2			G3/500
BL (0°-30°)	1163.2	6.0	B3/2500		
BM (30°-60°)	2378.3	12.3	B2/2500		
BH (60°-80°)	951.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	122.6	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°	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6
2.5°	2383.3	2398.0	2404.3	2401.2	2416.9	2414.8	2436.8	2464.1	2501.8	2538.5
5°	2199.8	2215.6	2229.2	2241.8	2272.2	2281.6	2316.2	2368.6	2437.9	2508.1
7.5°	2028.9	2042.6	2063.5	2086.6	2138.0	2147.4	2205.1	2286.9	2383.3	2486.1
10°	1889.5	1903.1	1925.1	1951.3	2015.3	2026.8	2100.2	2209.3	2335.1	2465.1
12.5°	1829.7	1833.9	1846.5	1872.7	1928.3	1935.6	2016.3	2141.1	2287.9	2449.4
15°	1826.6	1834.9	1836.0	1849.6	1895.8	1898.9	1973.4	2097.1	2258.6	2446.2
17.5°	1858.0	1864.3	1854.9	1863.3	1902.0	1907.3	1966.0	2076.1	2249.1	2459.9
20°	1941.9	1947.1	1918.8	1907.3	1935.6	1939.8	1997.5	2089.7	2258.6	2488.2
22.5°	2120.1	2123.3	2054.1	2006.9	2009.0	2011.1	2061.4	2145.3	2295.3	2539.6
25°	2398.0	2395.9	2285.8	2194.6	2142.2	2130.6	2164.2	2235.5	2357.1	2607.7
27.5°	2723.1	2707.3	2597.2	2460.9	2346.6	2329.9	2322.5	2352.9	2445.2	2697.9
30°	3090.0	3075.4	2956.9	2778.6	2620.3	2593.0	2523.8	2508.1	2576.3	2820.6
32.5°	3492.7	3483.2	3341.7	3125.7	2913.9	2882.4	2766.0	2724.1	2777.6	3006.2
35°	3830.3	3821.9	3704.5	3482.2	3223.2	3184.4	3065.9	3018.7	3046.0	3244.2
37.5°	4135.4	4131.2	4030.6	3855.5	3588.1	3540.9	3407.8	3392.0	3386.8	3557.7
40°	4418.5	4408.1	4303.2	4210.9	4012.8	3969.8	3852.3	3838.7	3798.9	3943.6
42.5°	4732.1	4704.8	4552.8	4509.8	4456.3	4420.6	4350.4	4352.5	4264.4	4378.7
45°	4987.9	4972.2	4815.9	4790.8	4848.4	4833.8	4894.6	4910.3	4739.4	4834.8
47.5°	5262.6	5247.9	5115.8	5098.0	5254.2	5258.4	5473.4	5478.6	5202.8	5308.8
50°	5601.3	5580.3	5449.3	5471.3	5646.4	5662.1	6055.3	6019.7	5629.6	5790.0
52.5°	5824.6	5837.2	5808.9	5844.6	6083.6	6098.3	6627.8	6536.6	6052.2	6265.0
55°	5989.3	6014.4	6102.5	6184.3	6545.0	6559.7	7167.8	7028.4	6402.4	6705.4
57.5°	6201.1	6165.4	6330.0	6489.4	6983.3	7022.1	7693.1	7502.3	6712.7	7085.0
60°	6505.1	6480.0	6607.9	6843.8	7474.0	7535.8	8248.9	7929.1	6940.3	7385.9
62.5°	7121.7	7058.8	7078.7	7287.3	8092.6	8174.4	8875.9	8301.3	7053.5	7503.3
65°	8043.3	7935.3	7834.7	7979.4	8964.0	9044.7	9583.6	8593.8	7011.6	7275.8
67.5°	9204.1	9097.1	8973.4	9109.7	10247.4	10311.3	10457.1	8758.4	6681.3	6399.2
70°	10161.4	10121.5	10269.4	10830.4	12297.3	12299.4	11576.9	8622.1	5776.4	4537.0
72.5°	10034.5	10010.4	10789.5	12523.7	14880.9	14825.3	12637.0	7590.4	3891.1	2046.7
75°	8232.1	8388.3	9595.2	12493.3	15808.8	15801.5	11987.9	4825.4	1609.5	848.3
77.5°	4414.3	4661.8	6229.4	9224.0	12341.3	12526.9	8428.2	1688.1	691.0	543.1
80°	1439.6	1655.6	2482.9	4696.4	8019.2	7984.6	3612.2	662.7	472.9	384.8
82.5°	611.3	636.5	1109.4	2217.7	4115.5	4051.6	1150.2	380.6	332.4	263.2
85°	239.1	267.4	489.7	1025.5	1782.5	1743.7	415.2	188.7	212.9	172.0
87.5°	78.6	95.4	175.1	351.3	554.7	534.8	101.7	65.0	92.3	78.6
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2584.6	0°	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6
2592.0	2.5°	2606.7	2623.4	2643.4	2672.7	2697.9	2718.9	2740.9	2754.5	2759.8	2775.5
2596.2	5°	2625.5	2662.2	2711.5	2759.8	2806.9	2835.2	2860.4	2873.0	2884.5	2892.9
2607.7	7.5°	2657.0	2704.2	2781.8	2844.7	2884.5	2907.6	2924.4	2920.2	2924.4	2926.5
2620.3	10°	2684.3	2750.3	2842.6	2902.4	2932.8	2933.8	2929.6	2914.9	2907.6	2908.6
2639.2	12.5°	2716.8	2790.2	2889.8	2940.1	2948.5	2925.4	2907.6	2882.4	2873.0	2868.8
2667.5	15°	2760.8	2844.7	2941.2	2960.0	2939.1	2909.7	2879.3	2838.4	2817.4	2800.6
2715.7	17.5°	2814.3	2906.5	2981.0	2967.4	2922.3	2874.0	2824.8	2762.9	2719.9	2702.1
2781.8	20°	2888.7	2971.6	3011.4	2951.6	2883.5	2810.1	2726.2	2650.7	2610.9	2593.0
2865.7	22.5°	2978.9	3058.6	3040.8	2924.4	2827.9	2710.5	2605.6	2550.0	2530.1	2517.5
2973.7	25°	3086.9	3155.1	3061.7	2884.5	2736.7	2578.4	2497.6	2479.8	2470.4	2460.9
3105.8	27.5°	3227.4	3264.1	3077.5	2825.8	2594.1	2437.9	2408.5	2411.6	2408.5	2392.8
3289.3	30°	3413.0	3405.7	3092.1	2730.4	2430.5	2311.0	2313.1	2326.7	2328.8	2318.3
3545.1	32.5°	3657.3	3582.9	3099.5	2606.7	2274.3	2199.8	2201.9	2216.6	2227.1	2209.3
3879.6	35°	3953.0	3789.4	3087.9	2451.5	2153.7	2093.9	2078.2	2082.4	2085.5	2068.8
4285.4	37.5°	4298.0	4021.1	3036.6	2279.5	2054.1	1990.1	1956.6	1928.3	1911.5	1895.8
4744.6	40°	4676.5	4273.8	2942.2	2111.8	1942.9	1880.0	1829.7	1776.2	1719.6	1698.6
5231.2	42.5°	5072.8	4533.9	2827.9	1951.3	1815.0	1763.6	1710.2	1632.6	1547.6	1504.7
5736.6	45°	5483.9	4800.2	2715.7	1793.0	1684.0	1661.9	1600.1	1506.8	1414.5	1360.0
6243.0	47.5°	5886.5	5051.9	2551.1	1633.6	1561.3	1585.4	1537.2	1451.2	1348.4	1262.4
6745.3	50°	6271.3	5287.8	2281.6	1472.1	1461.7	1562.3	1516.2	1392.5	1275.0	1164.9
7238.1	52.5°	6653.0	5478.6	1936.7	1325.4	1408.2	1556.0	1488.9	1352.6	1209.0	1093.6
7701.5	55°	6977.0	5577.2	1604.3	1199.5	1330.6	1502.6	1456.4	1305.4	1115.6	993.0
8019.2	57.5°	7161.5	5497.5	1327.5	1075.8	1223.6	1414.5	1400.8	1204.8	1004.5	910.1
8081.1	60°	7081.8	5174.5	1101.0	967.8	1121.9	1319.1	1304.4	1105.2	919.6	830.4
7749.8	62.5°	6642.5	4559.0	921.7	873.4	1029.7	1221.5	1207.9	1028.6	854.6	768.6
6870.0	65°	5757.5	3708.7	782.2	794.8	936.3	1104.1	1124.0	964.7	803.2	719.3
5315.0	67.5°	4391.3	2686.4	673.2	726.6	845.1	988.8	1046.4	918.5	760.2	680.5
3075.4	70°	2502.9	1525.6	580.9	660.6	764.4	881.8	986.7	881.8	714.1	648.0
1152.3	72.5°	948.9	700.4	502.3	594.5	686.8	791.6	920.6	824.2	660.6	611.3
595.6	75°	506.4	426.8	422.6	516.9	597.7	703.6	837.8	767.5	620.7	645.9
412.1	77.5°	345.0	302.0	353.4	442.5	500.2	606.1	749.7	681.6	537.9	535.8
285.2	80°	239.1	213.9	287.3	356.5	386.9	509.6	654.3	585.1	438.3	408.9
176.2	82.5°	143.6	139.5	215.0	266.3	273.7	393.2	542.1	490.7	358.6	312.5
104.9	85°	78.6	82.8	137.4	156.2	159.4	274.7	424.7	379.6	275.8	231.7
37.7	87.5°	22.0	28.3	50.3	61.9	76.5	142.6	252.7	225.4	138.4	96.5
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>
2584.6
2774.4
2895.0
2929.6
2910.7
2866.7
2805.9
2703.1
2590.9
2519.6
2460.9
2395.9
2323.6
2217.7
2080.3
1906.2
1708.1
1509.9
1355.8
1253.0
1155.5
1081.0
982.5
897.5
817.9
754.9
705.7
667.9
639.6
602.9
666.9
493.9
391.1
314.6
233.8
96.5
0.0

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