

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: P939989

Luminaire Tested: **GALN-SB2D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939989
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-SB2D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18073 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

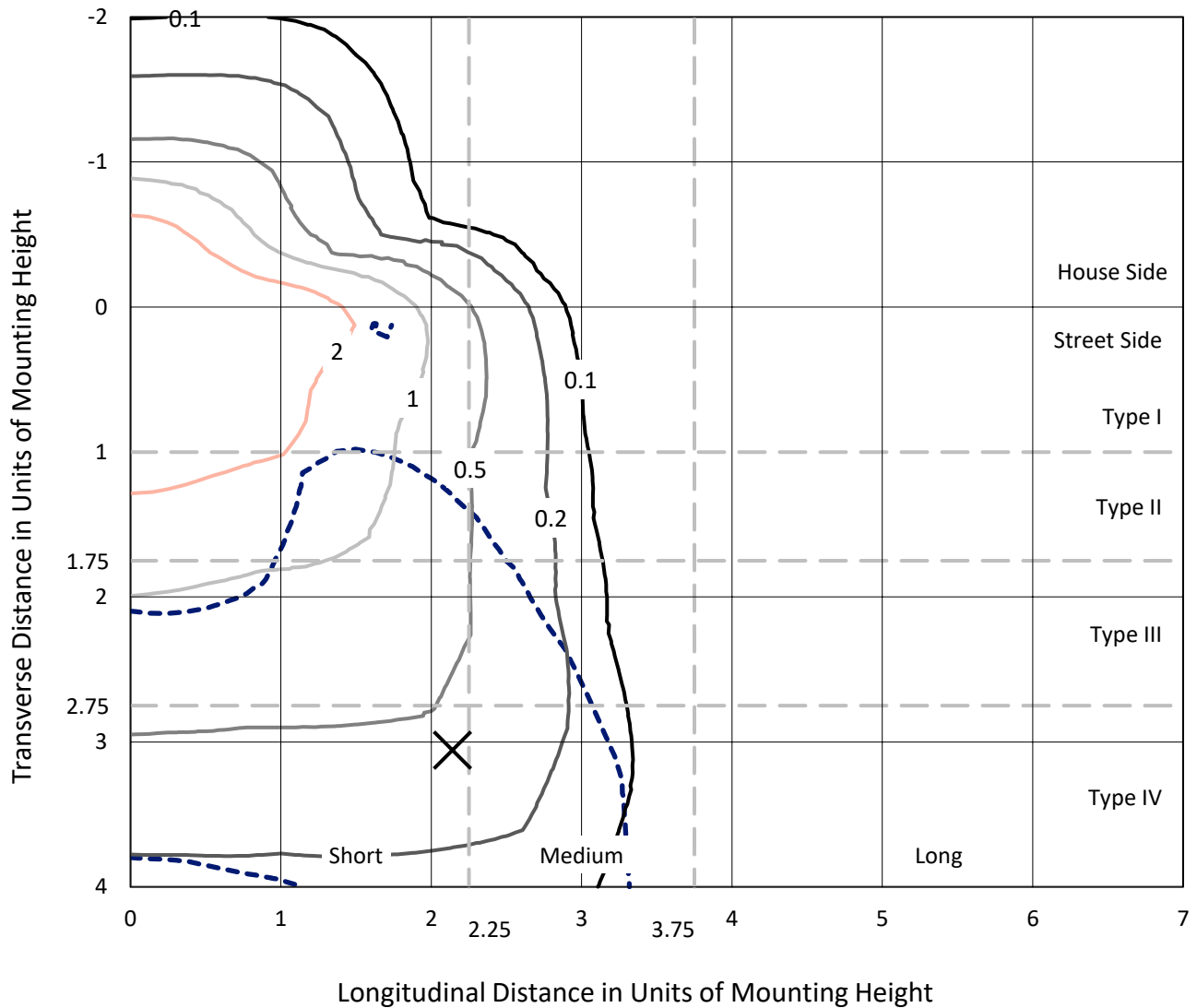
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

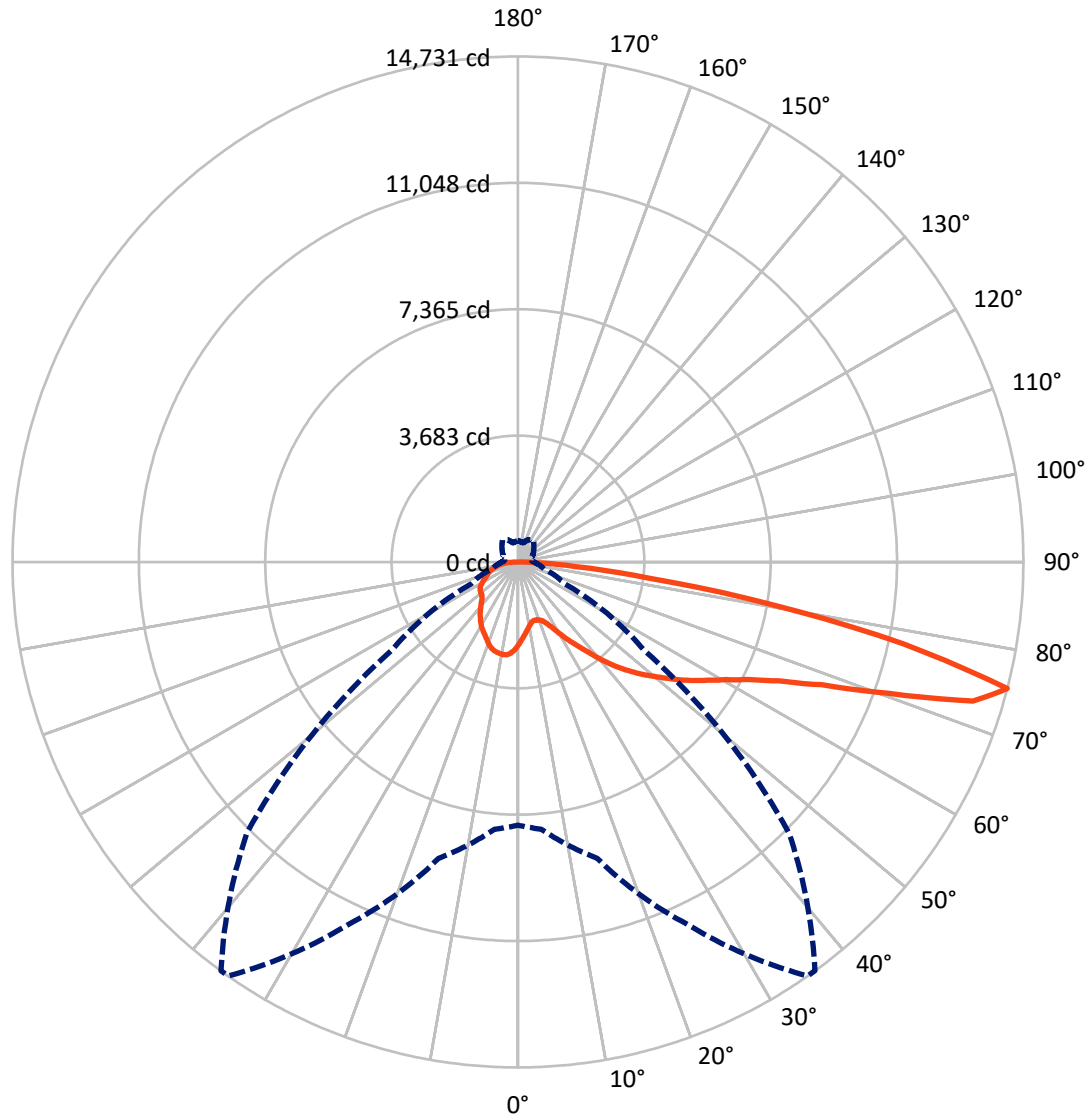
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4300.9	0.0	4300.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13772.1	0.0	13772.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	18073.0	0.0	18073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.3
10°-20°	657.7	3.6
20°-30°	1104.5	6.1
30°-40°	1716.5	9.5
40°-50°	2547.8	14.1
50°-60°	3517.3	19.5
60°-70°	4267.3	23.6
70°-80°	3526.6	19.5
80°-90°	507.2	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°	18073.0	100.0
0°-180°	18073.0	100.0

Coefficient of Utilization



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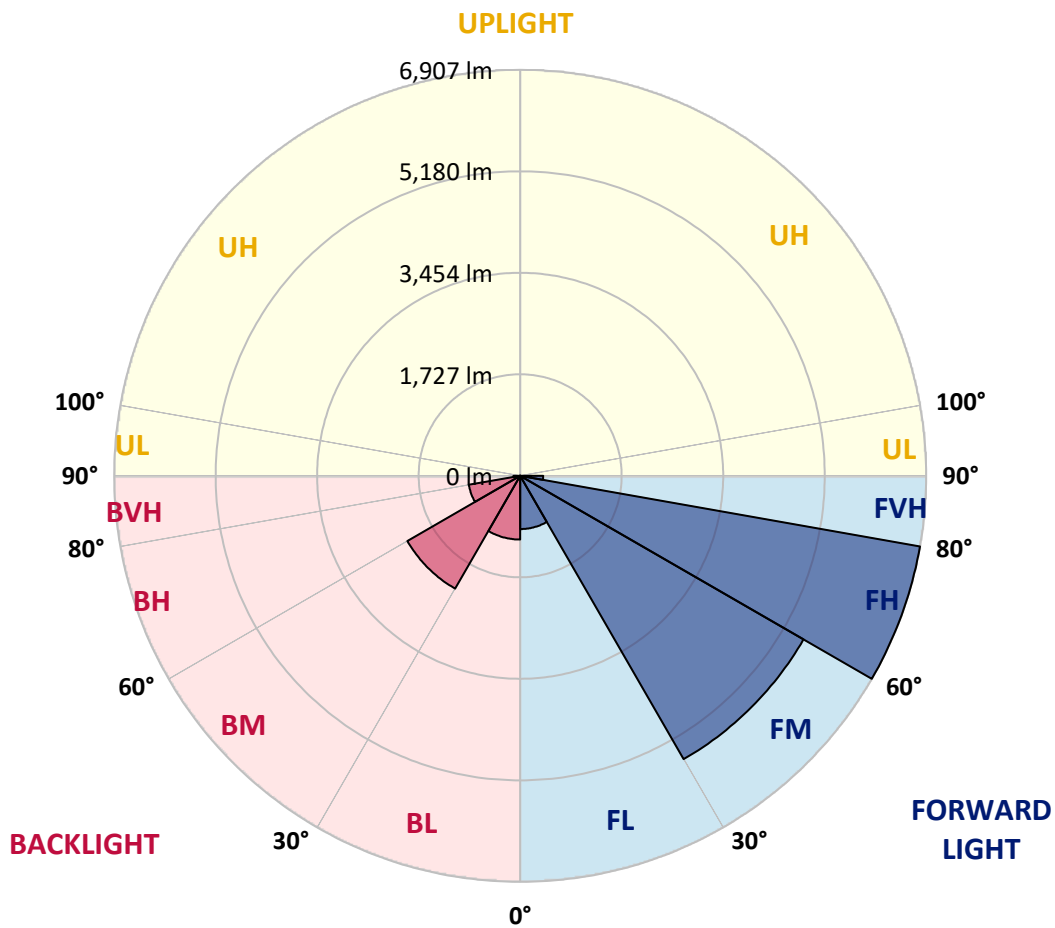
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.3	5.0			
FM (30°-60°)	5565.5	30.8			
FH (60°-80°)	6907.2	38.2			G3/7500
FVH (80°-90°)	393.0	2.2			G3/500
BL (0°-30°)	1083.9	6.0	B3/2500		
BM (30°-60°)	2216.1	12.3	B2/2500		
BH (60°-80°)	886.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	114.2	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°	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3
2.5°	2220.8	2234.4	2240.3	2237.4	2252.0	2250.1	2270.6	2296.0	2331.2	2365.4
5°	2049.8	2064.4	2077.1	2088.9	2117.2	2126.0	2158.2	2207.1	2271.6	2337.0
7.5°	1890.5	1903.2	1922.8	1944.3	1992.1	2000.9	2054.7	2130.9	2220.8	2316.5
10°	1760.6	1773.3	1793.8	1818.2	1877.8	1888.6	1957.0	2058.6	2175.8	2297.0
12.5°	1704.9	1708.8	1720.5	1745.0	1796.7	1803.6	1878.8	1995.1	2131.9	2282.3
15°	1702.0	1709.8	1710.8	1723.5	1766.4	1769.4	1838.7	1954.0	2104.5	2279.4
17.5°	1731.3	1737.1	1728.3	1736.2	1772.3	1777.2	1831.9	1934.5	2095.7	2292.1
20°	1809.4	1814.3	1787.9	1777.2	1803.6	1807.5	1861.2	1947.2	2104.5	2318.5
22.5°	1975.5	1978.5	1914.0	1870.0	1872.0	1873.9	1920.8	1999.0	2138.7	2366.3
25°	2234.4	2232.5	2129.9	2044.9	1996.0	1985.3	2016.6	2083.0	2196.3	2429.8
27.5°	2537.3	2522.7	2420.1	2293.1	2186.6	2170.9	2164.1	2192.4	2278.4	2513.9
30°	2879.3	2865.6	2755.2	2589.1	2441.6	2416.2	2351.7	2337.0	2400.5	2628.2
32.5°	3254.4	3245.7	3113.8	2912.5	2715.1	2685.8	2577.4	2538.3	2588.1	2801.1
35°	3569.0	3561.2	3451.8	3244.7	3003.4	2967.2	2856.8	2812.8	2838.2	3022.9
37.5°	3853.4	3849.5	3755.7	3592.5	3343.4	3299.4	3175.3	3160.7	3155.8	3315.0
40°	4117.2	4107.4	4009.7	3923.7	3739.0	3699.0	3589.6	3576.9	3539.7	3674.6
42.5°	4409.3	4383.9	4242.2	4202.2	4152.3	4119.1	4053.6	4055.6	3973.5	4080.0
45°	4647.7	4633.0	4487.4	4464.0	4517.7	4504.1	4560.7	4575.4	4416.1	4505.0
47.5°	4903.7	4890.0	4766.9	4750.3	4895.8	4899.7	5100.0	5104.9	4848.0	4946.6
50°	5219.2	5199.7	5077.6	5098.1	5261.2	5275.9	5642.3	5609.1	5245.6	5395.1
52.5°	5427.3	5439.1	5412.7	5445.9	5668.7	5682.3	6175.7	6090.7	5639.3	5837.7
55°	5580.7	5604.2	5686.2	5762.5	6098.5	6112.2	6678.9	6549.0	5965.7	6248.0
57.5°	5778.1	5744.9	5898.3	6046.8	6506.9	6543.1	7168.4	6990.6	6254.9	6601.7
60°	6061.4	6038.0	6157.2	6377.0	6964.2	7021.8	7686.2	7388.2	6466.9	6882.1
62.5°	6635.9	6577.3	6595.8	6790.3	7540.6	7616.8	8270.5	7735.1	6572.4	6991.5
65°	7494.7	7394.1	7300.3	7435.1	8352.5	8427.8	8929.9	8007.6	6533.3	6779.5
67.5°	8576.3	8476.6	8361.3	8488.3	9548.4	9608.0	9743.8	8161.0	6225.6	5962.7
70°	9468.3	9431.2	9568.9	10091.6	11458.5	11460.4	10787.3	8034.0	5382.4	4227.6
72.5°	9350.1	9327.6	10053.5	11669.5	13865.8	13814.1	11775.0	7072.6	3625.7	1907.1
75°	7670.6	7816.1	8940.7	11641.2	14730.5	14723.7	11170.2	4496.2	1499.7	790.4
77.5°	4113.2	4343.8	5804.5	8594.8	11499.5	11672.4	7853.3	1573.0	643.9	506.1
80°	1341.4	1542.7	2313.6	4376.1	7472.2	7440.0	3365.8	617.5	440.6	358.6
82.5°	569.6	593.0	1033.7	2066.4	3834.8	3775.2	1071.8	354.7	309.7	245.2
85°	222.8	249.1	456.3	955.5	1660.9	1624.8	386.9	175.9	198.3	160.2
87.5°	73.3	88.9	163.2	327.3	516.8	498.3	94.8	60.6	86.0	73.3
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°
2408.3	0°	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3	2408.3
2415.2	2.5°	2428.9	2444.5	2463.1	2490.4	2513.9	2533.4	2553.9	2566.6	2571.5	2586.2
2419.1	5°	2446.5	2480.6	2526.6	2571.5	2615.5	2641.9	2665.3	2677.0	2687.8	2695.6
2429.8	7.5°	2475.8	2519.7	2592.0	2650.6	2687.8	2709.3	2724.9	2721.0	2724.9	2726.9
2441.6	10°	2501.2	2562.7	2648.7	2704.4	2732.7	2733.7	2729.8	2716.1	2709.3	2710.2
2459.2	12.5°	2531.5	2599.8	2692.7	2739.6	2747.4	2725.9	2709.3	2685.8	2677.0	2673.1
2485.5	15°	2572.5	2650.6	2740.5	2758.1	2738.6	2711.2	2682.9	2644.8	2625.2	2609.6
2530.5	17.5°	2622.3	2708.3	2777.7	2765.0	2722.9	2678.0	2632.1	2574.4	2534.4	2517.8
2592.0	20°	2691.7	2768.9	2806.0	2750.3	2686.8	2618.4	2540.2	2469.9	2432.8	2416.2
2670.2	22.5°	2775.7	2850.0	2833.4	2724.9	2635.0	2525.6	2427.9	2376.1	2357.5	2345.8
2770.8	25°	2876.3	2939.8	2852.9	2687.8	2550.0	2402.5	2327.3	2310.6	2301.9	2293.1
2893.9	27.5°	3007.3	3041.5	2867.5	2633.1	2417.1	2271.6	2244.2	2247.1	2244.2	2229.6
3064.9	30°	3180.2	3173.4	2881.2	2544.2	2264.7	2153.3	2155.3	2168.0	2170.0	2160.2
3303.3	32.5°	3407.8	3338.5	2888.1	2428.9	2119.2	2049.8	2051.7	2065.4	2075.2	2058.6
3615.0	35°	3683.4	3530.9	2877.3	2284.3	2006.8	1951.1	1936.4	1940.4	1943.3	1927.7
3993.1	37.5°	4004.8	3746.9	2829.4	2124.0	1914.0	1854.4	1823.1	1796.7	1781.1	1766.4
4421.0	40°	4357.5	3982.3	2741.5	1967.7	1810.4	1751.8	1704.9	1655.1	1602.3	1582.8
4874.3	42.5°	4726.8	4224.6	2635.0	1818.2	1691.2	1643.3	1593.5	1521.2	1442.1	1402.0
5345.3	45°	5109.8	4472.8	2530.5	1670.7	1569.1	1548.6	1490.9	1404.0	1318.0	1267.2
5817.2	47.5°	5485.0	4707.3	2377.1	1522.2	1454.8	1477.3	1432.3	1352.2	1256.4	1176.3
6285.2	50°	5843.5	4927.1	2126.0	1371.7	1362.0	1455.8	1412.8	1297.5	1188.1	1085.5
6744.4	52.5°	6199.2	5104.9	1804.6	1235.0	1312.1	1449.9	1387.4	1260.4	1126.5	1019.0
7176.2	55°	6501.1	5196.8	1494.8	1117.7	1239.8	1400.1	1357.1	1216.4	1039.5	925.2
7472.2	57.5°	6673.0	5122.5	1236.9	1002.4	1140.2	1318.0	1305.3	1122.6	936.0	848.1
7529.9	60°	6598.8	4821.6	1025.9	901.8	1045.4	1229.1	1215.4	1029.8	856.8	773.8
7221.1	62.5°	6189.4	4248.1	858.8	813.9	959.4	1138.2	1125.5	958.5	796.3	716.2
6401.4	65°	5364.8	3455.7	728.9	740.6	872.5	1028.8	1047.4	898.9	748.4	670.2
4952.5	67.5°	4091.8	2503.1	627.2	677.1	787.5	921.3	975.1	855.9	708.3	634.1
2865.6	70°	2332.1	1421.6	541.3	615.5	712.2	821.7	919.4	821.7	665.3	603.8
1073.7	72.5°	884.2	652.6	468.0	554.0	639.9	737.6	857.8	767.9	615.5	569.6
554.9	75°	471.9	397.6	393.7	481.7	556.9	655.6	780.6	715.2	578.4	601.8
384.0	77.5°	321.4	281.4	329.3	412.3	466.0	564.7	698.6	635.1	501.2	499.3
265.7	80°	222.8	199.3	267.7	332.2	360.5	474.8	609.7	545.2	408.4	381.0
164.1	82.5°	133.9	129.9	200.3	248.2	255.0	366.4	505.1	457.2	334.1	291.2
97.7	85°	73.3	77.2	128.0	145.6	148.5	256.0	395.7	353.7	257.0	215.9
35.2	87.5°	20.5	26.4	46.9	57.6	71.3	132.9	235.5	210.1	129.0	89.9
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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<u>180°</u>
2408.3
2585.2
2697.5
2729.8
2712.2
2671.2
2614.5
2518.8
2414.2
2347.8
2293.1
2232.5
2165.1
2066.4
1938.4
1776.2
1591.6
1406.9
1263.3
1167.5
1076.7
1007.3
915.5
836.3
762.1
703.5
657.5
622.4
596.0
561.8
621.4
460.2
364.4
293.1
217.9
89.9
0.0

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