

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: P942919

Luminaire Tested: **GALN-SB7A-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942919
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-SB7A-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 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: 19192 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

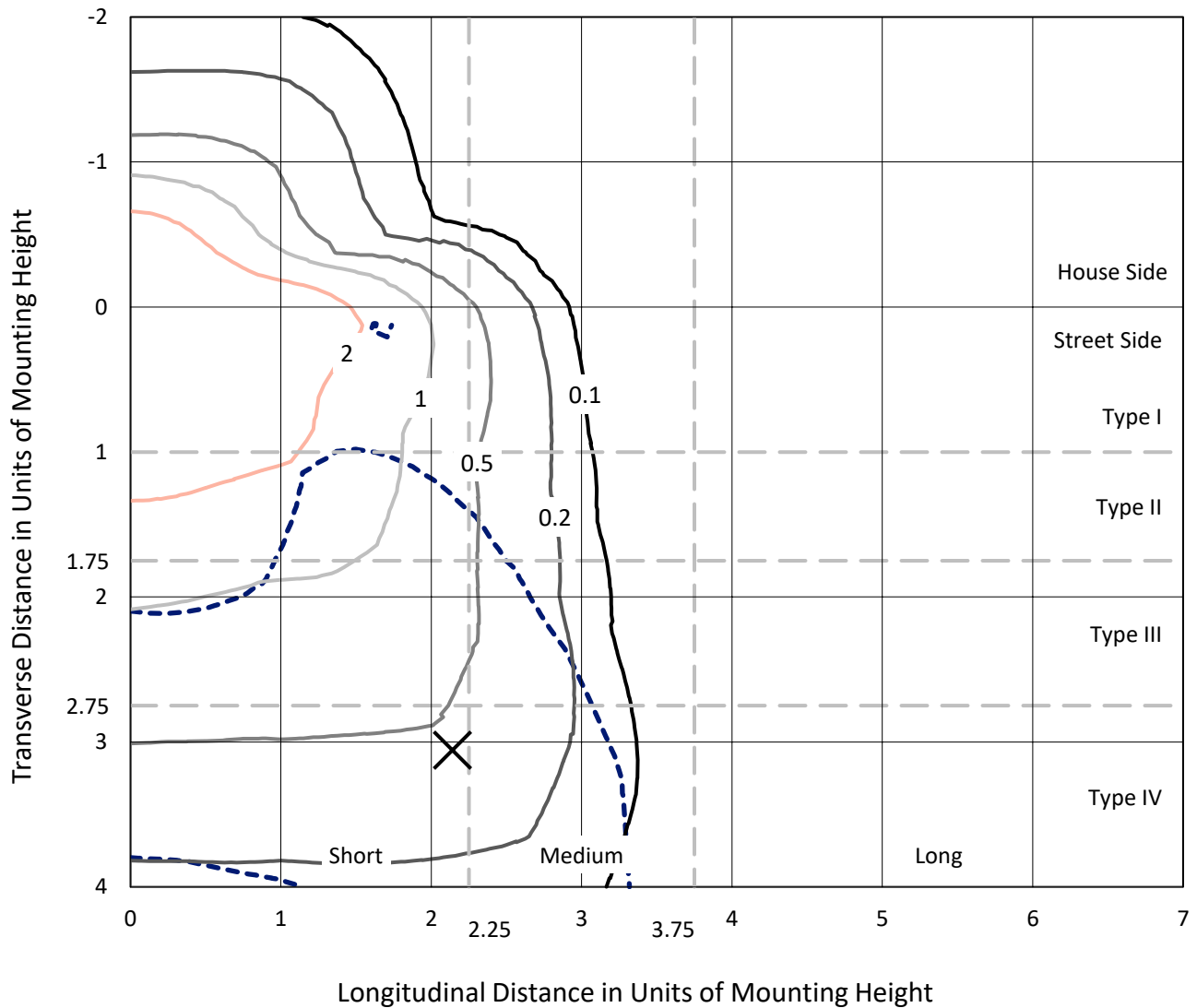
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

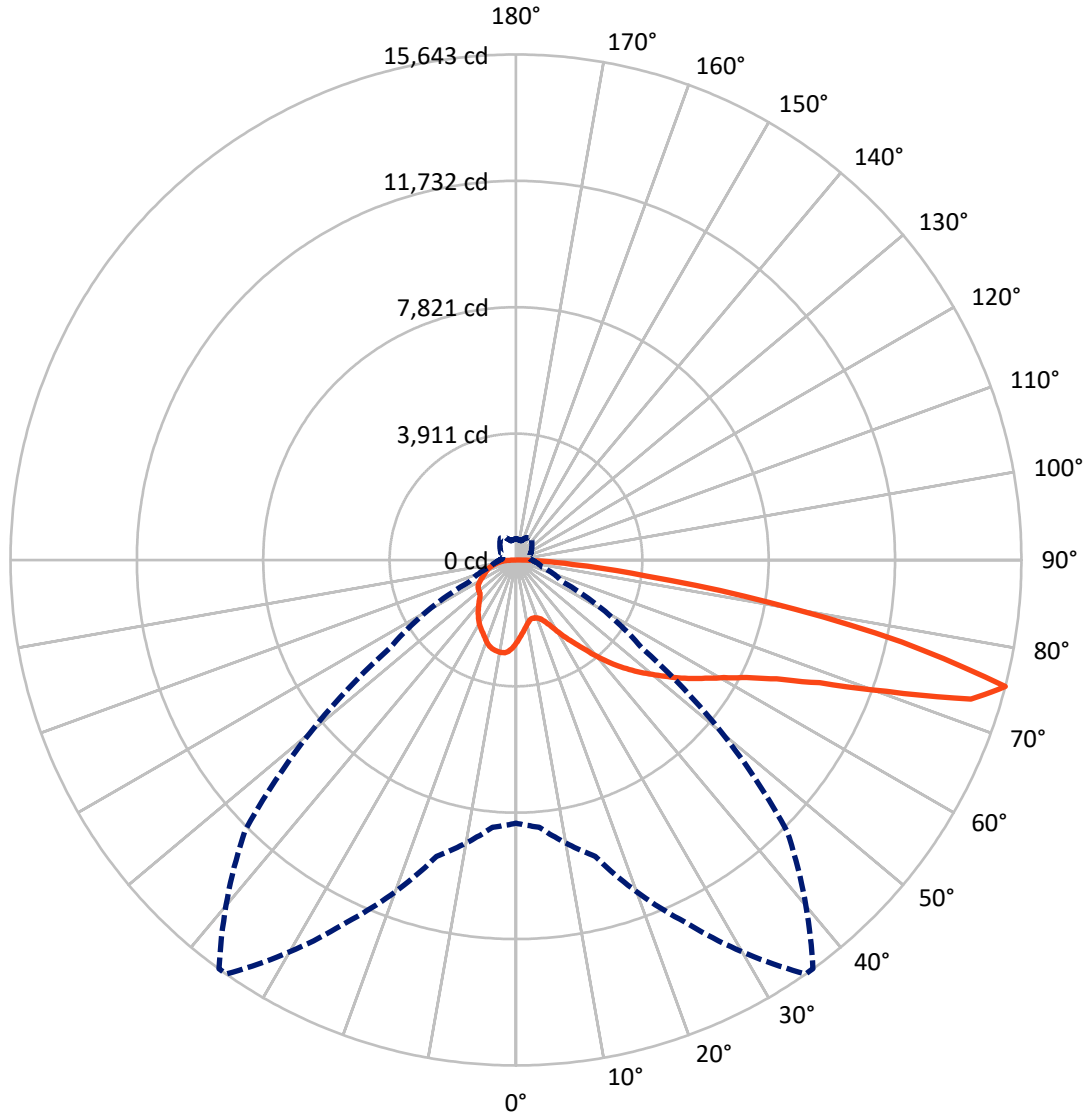
× Max cd
 - - - 1/2 Max cd



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	4567.2	0.0	4567.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14624.8	0.0	14624.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	19192.0	0.0	19192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.3
10°-20°	698.4	3.6
20°-30°	1172.9	6.1
30°-40°	1822.8	9.5
40°-50°	2705.5	14.1
50°-60°	3735.1	19.5
60°-70°	4531.5	23.6
70°-80°	3745.0	19.5
80°-90°	538.6	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°	19192.0	100.0
0°-180°	19192.0	100.0

Coefficient of Utilization



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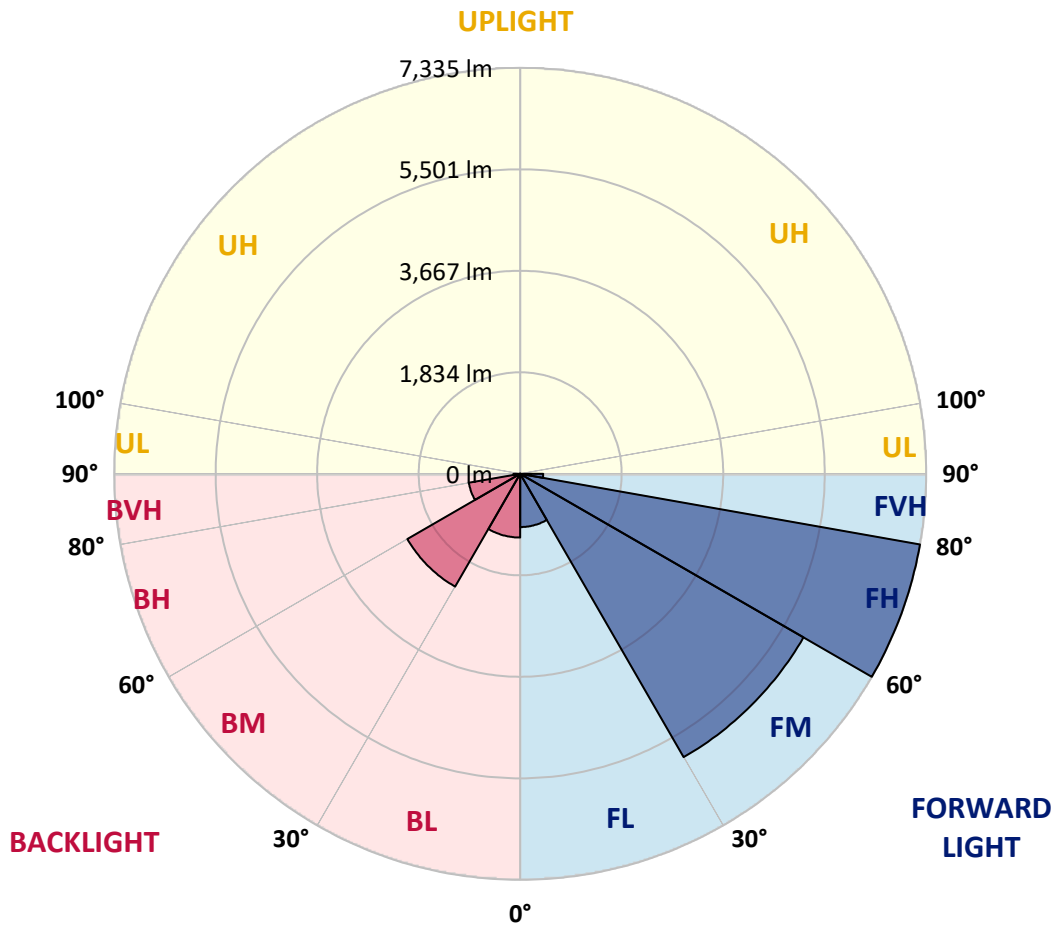
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.4	5.0			
FM (30°-60°)	5910.1	30.8			
FH (60°-80°)	7334.9	38.2			G3/7500
FVH (80°-90°)	417.4	2.2			G3/500
BL (0°-30°)	1151.0	6.0	B3/2500		
BM (30°-60°)	2353.3	12.3	B2/2500		
BH (60°-80°)	941.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	121.3	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°	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5
2.5°	2358.3	2372.8	2379.0	2375.9	2391.5	2389.4	2411.2	2438.2	2475.5	2511.8
5°	2176.7	2192.3	2205.7	2218.2	2248.3	2257.6	2291.9	2343.7	2412.2	2481.7
7.5°	2007.6	2021.1	2041.8	2064.6	2115.5	2124.8	2181.9	2262.8	2358.3	2459.9
10°	1869.6	1883.1	1904.9	1930.8	1994.1	2005.5	2078.1	2186.0	2310.5	2439.2
12.5°	1810.5	1814.6	1827.1	1853.0	1908.0	1915.2	1995.1	2118.6	2263.8	2423.6
15°	1807.3	1815.6	1816.7	1830.2	1875.8	1878.9	1952.6	2075.0	2234.8	2420.5
17.5°	1838.5	1844.7	1835.4	1843.7	1882.0	1887.2	1945.3	2054.3	2225.5	2434.0
20°	1921.5	1926.7	1898.6	1887.2	1915.2	1919.4	1976.5	2067.8	2234.8	2462.0
22.5°	2097.8	2101.0	2032.5	1985.8	1987.9	1989.9	2039.7	2122.7	2271.1	2512.9
25°	2372.8	2370.7	2261.8	2171.5	2119.6	2108.2	2141.4	2212.0	2332.3	2580.3
27.5°	2694.4	2678.9	2569.9	2435.0	2321.9	2305.3	2298.1	2328.2	2419.5	2669.5
30°	3057.5	3043.0	2925.8	2749.4	2592.7	2565.8	2497.3	2481.7	2549.2	2790.9
32.5°	3455.9	3446.6	3306.5	3092.8	2883.2	2852.1	2737.0	2695.5	2748.4	2974.5
35°	3790.0	3781.7	3665.5	3445.6	3189.3	3150.9	3033.7	2987.0	3014.0	3210.1
37.5°	4091.9	4087.8	3988.2	3814.9	3550.4	3503.7	3371.9	3356.3	3351.2	3520.3
40°	4372.1	4361.7	4257.9	4166.6	3970.6	3928.0	3811.8	3798.3	3758.9	3902.1
42.5°	4682.3	4655.3	4504.9	4462.3	4409.4	4374.1	4304.6	4306.7	4219.6	4332.6
45°	4935.4	4919.9	4765.3	4740.4	4797.4	4782.9	4843.1	4858.7	4689.5	4784.0
47.5°	5207.3	5192.7	5062.0	5044.4	5199.0	5203.1	5415.8	5421.0	5148.1	5252.9
50°	5542.4	5521.6	5391.9	5413.7	5587.0	5602.6	5991.6	5956.3	5570.4	5729.1
52.5°	5763.4	5775.8	5747.8	5783.1	6019.6	6034.2	6558.1	6467.8	5988.5	6199.1
55°	5926.3	5951.2	6038.3	6119.2	6476.1	6490.7	7092.4	6954.4	6335.0	6634.9
57.5°	6135.8	6100.6	6263.5	6421.2	6909.8	6948.2	7612.2	7423.4	6642.1	7010.5
60°	6436.7	6411.8	6538.4	6771.8	7395.4	7456.6	8162.1	7845.7	6867.3	7308.2
62.5°	7046.8	6984.5	7004.2	7210.7	8007.5	8088.4	8782.5	8214.0	6979.3	7424.4
65°	7958.7	7851.9	7752.3	7895.5	8869.7	8949.6	9482.8	8503.4	6937.8	7199.3
67.5°	9107.3	9001.4	8879.0	9013.9	10139.6	10202.9	10347.1	8666.3	6611.0	6331.9
70°	10054.5	10015.1	10161.4	10716.4	12167.9	12170.0	11455.2	8531.5	5715.6	4489.3
72.5°	9929.0	9905.1	10676.0	12392.0	14724.4	14669.4	12504.1	7510.5	3850.2	2025.2
75°	8145.5	8300.1	9494.3	12361.9	15642.5	15635.3	11861.9	4774.6	1592.6	839.3
77.5°	4367.9	4612.8	6163.9	9127.0	12211.5	12395.1	8339.5	1670.4	683.7	537.4
80°	1424.5	1638.2	2456.8	4647.0	7934.9	7900.6	3574.2	655.7	467.9	380.8
82.5°	604.9	629.8	1097.7	2194.3	4072.2	4008.9	1138.1	376.6	328.9	260.4
85°	236.6	264.6	484.5	1014.7	1763.8	1725.4	410.9	186.8	210.6	170.2
87.5°	77.8	94.4	173.3	347.6	548.8	529.1	100.6	64.3	91.3	77.8
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°
2557.5	0°	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5	2557.5
2564.7	2.5°	2579.3	2595.9	2615.6	2644.6	2669.5	2690.3	2712.1	2725.5	2730.7	2746.3
2568.9	5°	2597.9	2634.2	2683.0	2730.7	2777.4	2805.4	2830.3	2842.8	2854.2	2862.5
2580.3	7.5°	2629.1	2675.7	2752.5	2814.8	2854.2	2877.0	2893.6	2889.5	2893.6	2895.7
2592.7	10°	2656.0	2721.4	2812.7	2871.8	2901.9	2903.0	2898.8	2884.3	2877.0	2878.1
2611.4	12.5°	2688.2	2760.8	2859.4	2909.2	2917.5	2894.7	2877.0	2852.1	2842.8	2838.6
2639.4	15°	2731.8	2814.8	2910.2	2928.9	2908.1	2879.1	2849.0	2808.5	2787.8	2771.2
2687.2	17.5°	2784.7	2876.0	2949.6	2936.2	2891.5	2843.8	2795.1	2733.8	2691.3	2673.7
2752.5	20°	2858.3	2940.3	2979.7	2920.6	2853.2	2780.5	2697.5	2622.8	2583.4	2565.8
2835.5	22.5°	2947.6	3026.4	3008.8	2893.6	2798.2	2682.0	2578.2	2523.2	2503.5	2491.1
2942.4	25°	3054.4	3121.9	3029.5	2854.2	2707.9	2551.2	2471.4	2453.7	2444.4	2435.0
3073.1	27.5°	3193.5	3229.8	3045.1	2796.1	2566.8	2412.2	2383.2	2386.3	2383.2	2367.6
3254.7	30°	3377.1	3369.8	3059.6	2701.7	2404.9	2286.7	2288.7	2302.2	2304.3	2293.9
3507.8	32.5°	3618.8	3545.2	3066.9	2579.3	2250.4	2176.7	2178.8	2193.3	2203.7	2186.0
3838.8	35°	3911.4	3749.6	3055.5	2425.7	2131.0	2071.9	2056.3	2060.5	2063.6	2047.0
4240.3	37.5°	4252.8	3978.9	3004.6	2255.5	2032.5	1969.2	1936.0	1908.0	1891.4	1875.8
4694.7	40°	4627.3	4228.9	2911.3	2089.5	1922.5	1860.3	1810.5	1757.5	1701.5	1680.8
5176.1	42.5°	5019.5	4486.2	2798.2	1930.8	1795.9	1745.1	1692.2	1615.4	1531.4	1488.8
5676.2	45°	5426.2	4749.7	2687.2	1774.1	1666.2	1644.5	1583.2	1490.9	1399.6	1345.7
6177.3	47.5°	5824.6	4998.7	2524.3	1616.4	1544.9	1568.7	1521.0	1435.9	1334.2	1249.2
6674.3	50°	6205.4	5232.2	2257.6	1456.7	1446.3	1545.9	1500.2	1377.8	1261.6	1152.7
7161.9	52.5°	6583.0	5421.0	1916.3	1311.4	1393.4	1539.7	1473.3	1338.4	1196.2	1082.1
7620.5	55°	6903.6	5518.5	1587.4	1186.9	1316.6	1486.8	1441.1	1291.7	1103.9	982.5
7934.9	57.5°	7086.2	5439.7	1313.5	1064.5	1210.8	1399.6	1386.1	1192.1	993.9	900.6
7996.1	60°	7007.3	5120.1	1089.4	957.6	1110.1	1305.2	1290.7	1093.5	909.9	821.7
7668.2	62.5°	6572.6	4511.1	912.0	864.2	1018.8	1208.7	1195.2	1017.8	845.6	760.5
6797.8	65°	5697.0	3669.7	774.0	786.4	926.5	1092.5	1112.2	954.5	794.7	711.7
5259.1	67.5°	4345.1	2658.1	666.1	719.0	836.2	978.4	1035.4	908.9	752.2	673.3
3043.0	70°	2476.5	1509.6	574.8	653.6	756.3	872.5	976.3	872.5	706.5	641.2
1140.2	72.5°	938.9	693.1	497.0	588.3	679.6	783.3	910.9	815.5	653.6	604.9
589.3	75°	501.1	422.3	418.1	511.5	591.4	696.2	829.0	759.5	614.2	639.1
407.7	77.5°	341.3	298.8	349.6	437.8	494.9	599.7	741.8	674.4	532.2	530.2
282.2	80°	236.6	211.7	284.3	352.8	382.8	504.2	647.4	578.9	433.7	404.6
174.3	82.5°	142.1	138.0	212.7	263.5	270.8	389.1	536.4	485.6	354.8	309.2
103.8	85°	77.8	82.0	135.9	154.6	157.7	271.8	420.2	375.6	272.9	229.3
37.4	87.5°	21.8	28.0	49.8	61.2	75.7	141.1	250.0	223.1	137.0	95.5
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>
2557.5
2745.3
2864.6
2898.8
2880.1
2836.6
2776.4
2674.7
2563.7
2493.1
2435.0
2370.7
2299.1
2194.3
2058.4
1886.2
1690.1
1494.0
1341.5
1239.8
1143.3
1069.7
972.1
888.1
809.3
747.0
698.2
660.9
632.9
596.6
659.9
488.7
387.0
311.3
231.4
95.5
0.0

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