

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: P941219

Luminaire Tested: **GALN-SB4C-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941219
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-SB4C-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18057 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

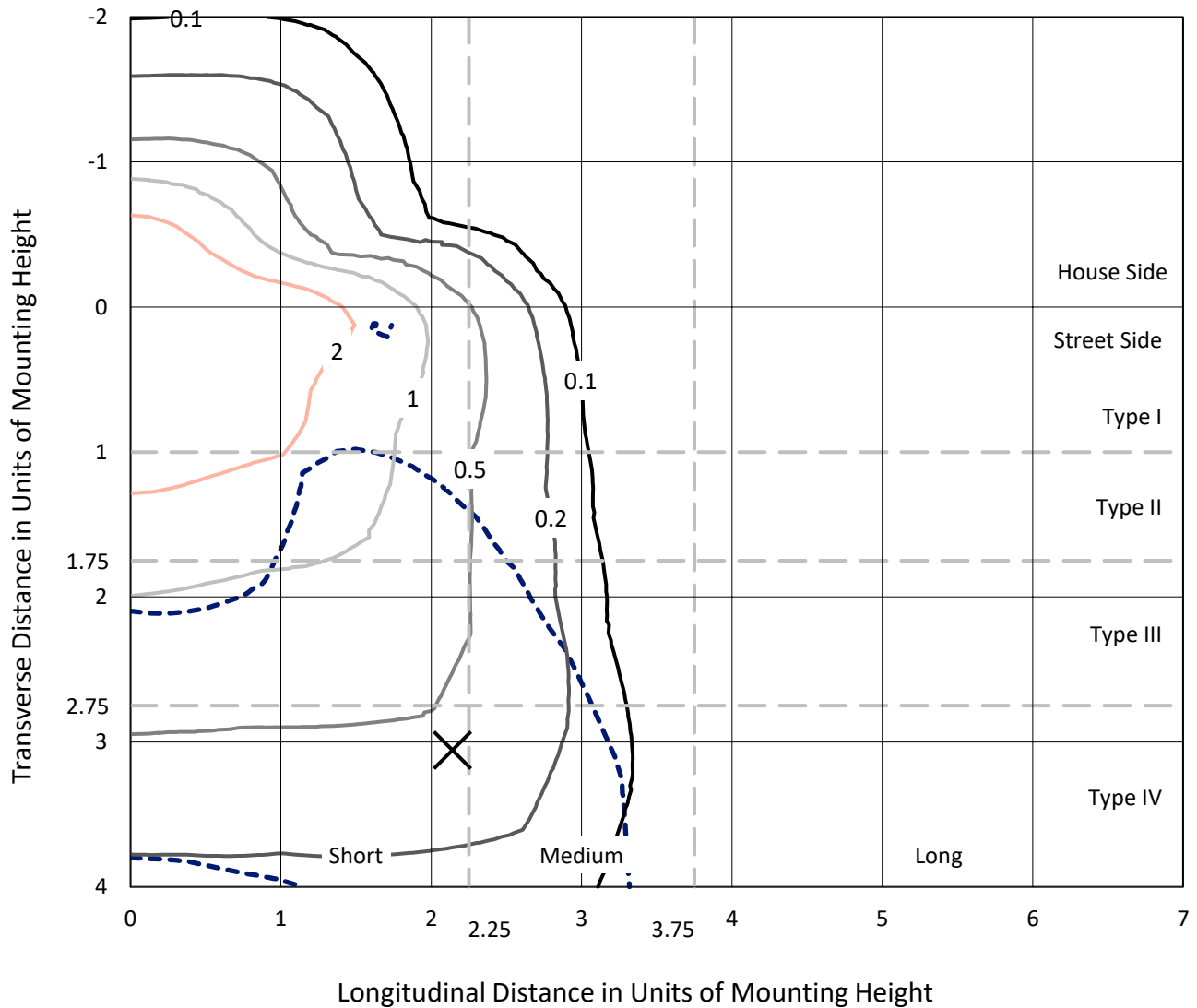
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

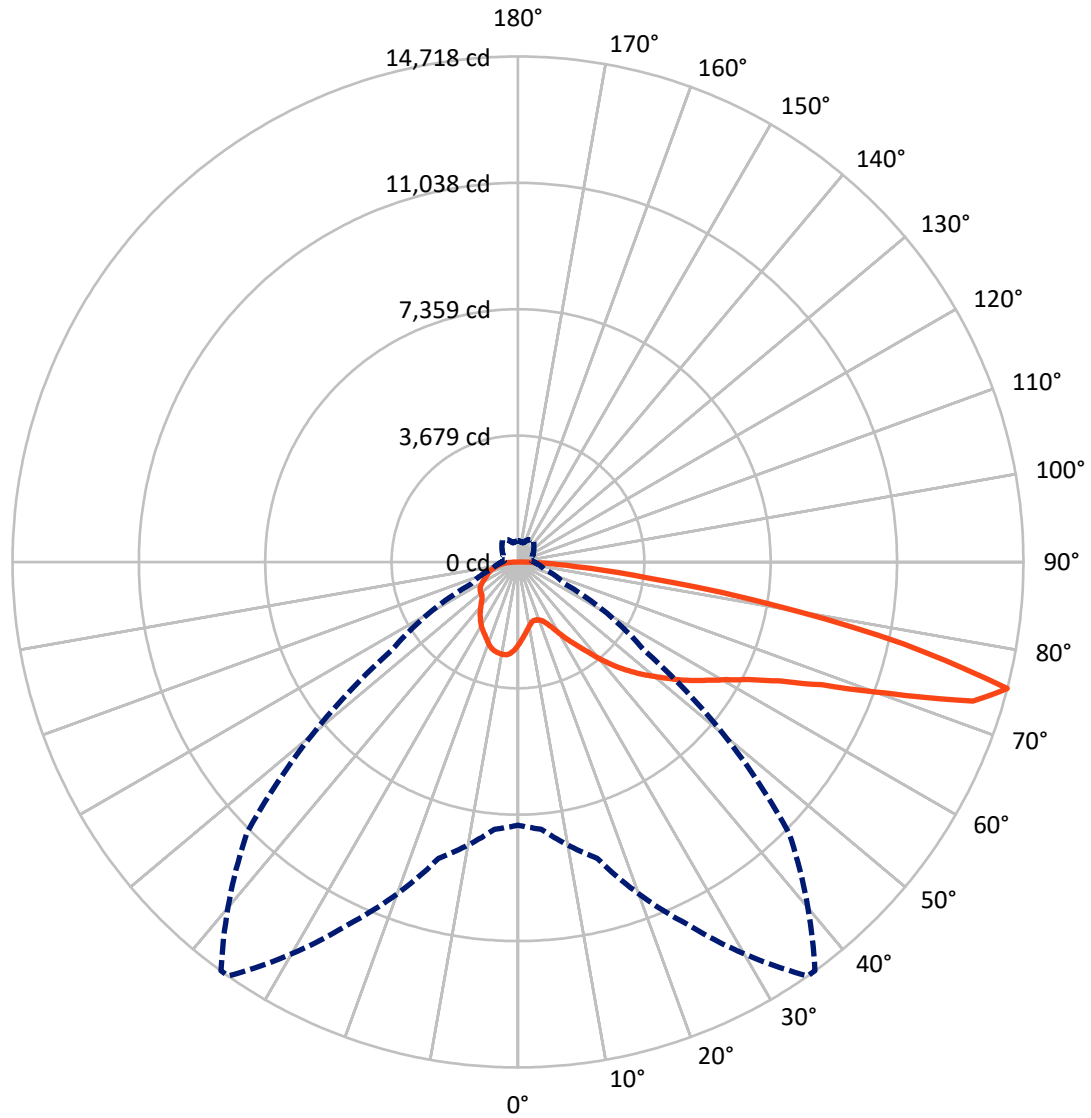
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4297.1	0.0	4297.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13759.9	0.0	13759.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	18057.0	0.0	18057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.3
10°-20°	657.1	3.6
20°-30°	1103.5	6.1
30°-40°	1715.0	9.5
40°-50°	2545.5	14.1
50°-60°	3514.2	19.5
60°-70°	4263.5	23.6
70°-80°	3523.5	19.5
80°-90°	506.8	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°	18057.0	100.0
0°-180°	18057.0	100.0



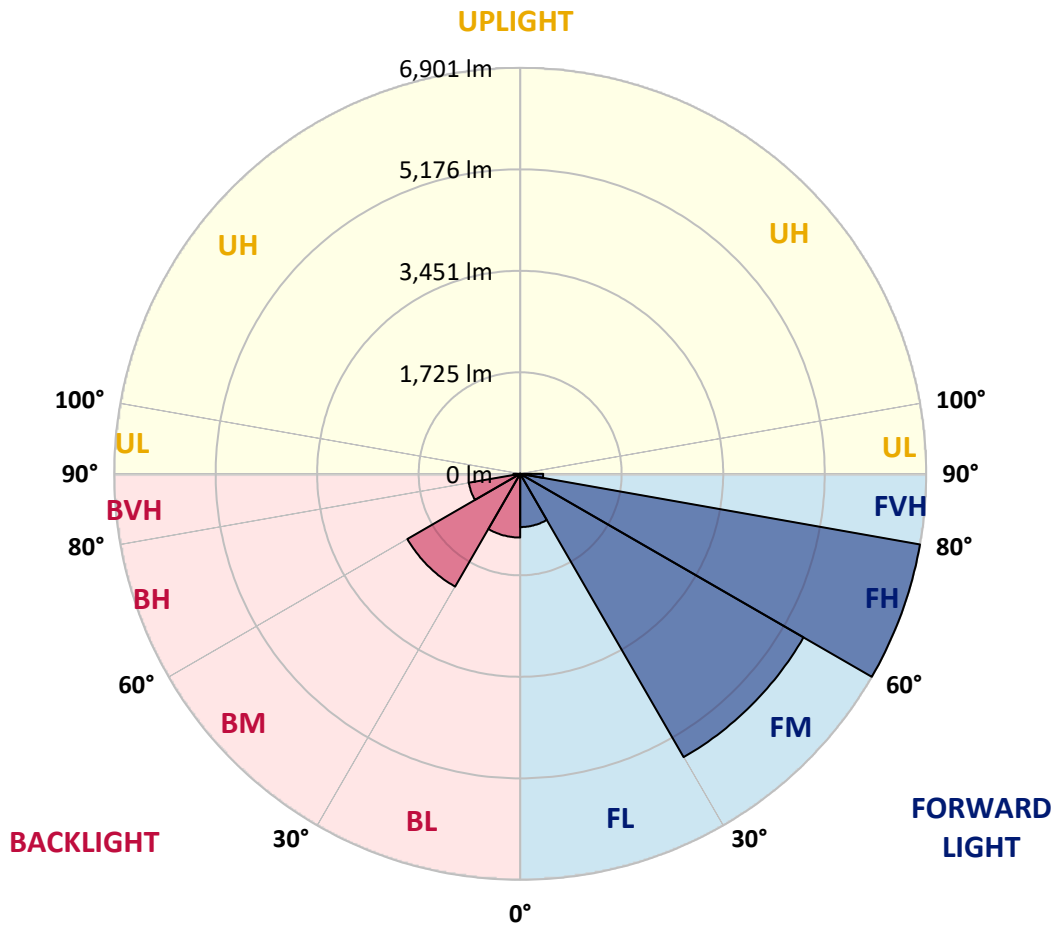
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.5	5.0			
FM (30°-60°)	5560.6	30.8			
FH (60°-80°)	6901.1	38.2			G3/7500
FVH (80°-90°)	392.7	2.2			G3/500
BL (0°-30°)	1082.9	6.0	B3/2500		
BM (30°-60°)	2214.1	12.3	B2/2500		
BH (60°-80°)	885.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	114.1	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°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2.5°	2218.8	2232.5	2238.3	2235.4	2250.0	2248.1	2268.6	2294.0	2329.1	2363.3
5°	2048.0	2062.6	2075.3	2087.0	2115.3	2124.1	2156.3	2205.1	2269.6	2335.0
7.5°	1888.9	1901.5	1921.1	1942.5	1990.4	1999.2	2052.8	2129.0	2218.8	2314.5
10°	1759.0	1771.7	1792.2	1816.6	1876.2	1886.9	1955.2	2056.8	2173.9	2294.9
12.5°	1703.4	1707.3	1719.0	1743.4	1795.1	1802.0	1877.1	1993.3	2130.0	2280.3
15°	1700.5	1708.3	1709.2	1721.9	1764.9	1767.8	1837.1	1952.3	2102.6	2277.4
17.5°	1729.7	1735.6	1726.8	1734.6	1770.7	1775.6	1830.3	1932.8	2093.8	2290.1
20°	1807.8	1812.7	1786.4	1775.6	1802.0	1805.9	1859.6	1945.5	2102.6	2316.4
22.5°	1973.8	1976.7	1912.3	1868.4	1870.3	1872.3	1919.1	1997.2	2136.8	2364.2
25°	2232.5	2230.5	2128.0	2043.1	1994.3	1983.5	2014.8	2081.2	2194.4	2427.7
27.5°	2535.1	2520.4	2417.9	2291.0	2184.6	2169.0	2162.2	2190.5	2276.4	2511.6
30°	2876.7	2863.1	2752.8	2586.8	2439.4	2414.0	2349.6	2335.0	2398.4	2625.9
32.5°	3251.6	3242.8	3111.0	2909.9	2712.7	2683.4	2575.1	2536.0	2585.8	2798.6
35°	3565.9	3558.1	3448.7	3241.8	3000.7	2964.6	2854.3	2810.3	2835.7	3020.2
37.5°	3849.9	3846.0	3752.3	3589.3	3340.4	3296.5	3172.5	3157.9	3153.0	3312.1
40°	4113.5	4103.7	4006.1	3920.2	3735.7	3695.7	3586.4	3573.7	3536.6	3671.3
42.5°	4405.4	4380.0	4238.5	4198.4	4148.7	4115.5	4050.1	4052.0	3970.0	4076.4
45°	4643.6	4628.9	4483.5	4460.0	4513.7	4500.1	4556.7	4571.3	4412.2	4501.0
47.5°	4899.3	4885.6	4762.7	4746.1	4891.5	4895.4	5095.5	5100.4	4843.7	4942.3
50°	5214.6	5195.1	5073.1	5093.6	5256.6	5271.2	5637.3	5604.1	5241.0	5390.3
52.5°	5422.5	5434.2	5407.9	5441.1	5663.6	5677.3	6170.3	6085.3	5634.4	5832.5
55°	5575.8	5599.2	5681.2	5757.4	6093.1	6106.8	6673.0	6543.2	5960.4	6242.5
57.5°	5773.0	5739.8	5893.0	6041.4	6501.2	6537.3	7162.0	6984.4	6249.3	6595.9
60°	6056.1	6032.6	6151.7	6371.4	6958.0	7015.6	7679.4	7381.7	6461.2	6876.0
62.5°	6630.0	6571.5	6590.0	6784.3	7533.9	7610.1	8263.1	7728.2	6566.6	6985.4
65°	7488.1	7387.5	7293.8	7428.5	8345.1	8420.3	8922.0	8000.6	6527.5	6773.5
67.5°	8568.7	8469.1	8353.9	8480.8	9539.9	9599.5	9735.2	8153.8	6220.0	5957.5
70°	9459.9	9422.8	9560.4	10082.7	11448.3	11450.3	10777.7	8026.9	5377.6	4223.8
72.5°	9341.8	9319.3	10044.6	11659.2	13853.6	13801.8	11764.6	7066.4	3622.5	1905.5
75°	7663.8	7809.2	8932.8	11630.9	14717.5	14710.6	11160.4	4492.3	1498.4	789.7
77.5°	4109.6	4340.0	5799.3	8587.2	11489.3	11662.1	7846.3	1571.6	643.3	505.6
80°	1340.3	1541.3	2311.5	4372.2	7465.6	7433.4	3362.8	616.9	440.2	358.2
82.5°	569.1	592.5	1032.8	2064.6	3831.4	3771.9	1070.8	354.3	309.4	245.0
85°	222.6	248.9	455.9	954.7	1659.5	1623.3	386.6	175.7	198.2	160.1
87.5°	73.2	88.8	163.0	327.0	516.4	497.8	94.7	60.5	85.9	73.2
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°
2406.2	0°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2413.1	2.5°	2426.7	2442.3	2460.9	2488.2	2511.6	2531.2	2551.7	2564.4	2569.2	2583.9
2417.0	5°	2444.3	2478.5	2524.3	2569.2	2613.2	2639.5	2662.9	2674.7	2685.4	2693.2
2427.7	7.5°	2473.6	2517.5	2589.7	2648.3	2685.4	2706.9	2722.5	2718.6	2722.5	2724.4
2439.4	10°	2499.0	2560.4	2646.4	2702.0	2730.3	2731.3	2727.4	2713.7	2706.9	2707.8
2457.0	12.5°	2529.2	2597.5	2690.3	2737.1	2744.9	2723.5	2706.9	2683.4	2674.7	2670.8
2483.3	15°	2570.2	2648.3	2738.1	2755.7	2736.2	2708.8	2680.5	2642.4	2622.9	2607.3
2528.2	17.5°	2620.0	2705.9	2775.2	2762.5	2720.5	2675.6	2629.8	2572.2	2532.1	2515.5
2589.7	20°	2689.3	2766.4	2803.5	2747.9	2684.4	2616.1	2538.0	2467.7	2430.6	2414.0
2667.8	22.5°	2773.3	2847.4	2830.8	2722.5	2632.7	2523.4	2425.7	2374.0	2355.5	2343.7
2768.4	25°	2873.8	2937.2	2850.4	2685.4	2547.8	2400.4	2325.2	2308.6	2299.8	2291.0
2891.4	27.5°	3004.6	3038.8	2865.0	2630.7	2415.0	2269.6	2242.2	2245.2	2242.2	2227.6
3062.2	30°	3177.4	3170.5	2878.7	2541.9	2262.7	2151.4	2153.4	2166.1	2168.0	2158.3
3300.4	32.5°	3404.8	3335.5	2885.5	2426.7	2117.3	2048.0	2049.9	2063.6	2073.3	2056.8
3611.8	35°	3680.1	3527.8	2874.8	2282.2	2005.0	1949.4	1934.7	1938.6	1941.6	1926.0
3989.5	37.5°	4001.3	3743.5	2826.9	2122.2	1912.3	1852.7	1821.5	1795.1	1779.5	1764.9
4417.1	40°	4353.6	3978.8	2739.1	1966.0	1808.8	1750.2	1703.4	1653.6	1600.9	1581.4
4870.0	42.5°	4722.6	4220.9	2632.7	1816.6	1689.7	1641.9	1592.1	1519.9	1440.8	1400.8
5340.5	45°	5105.3	4468.8	2528.2	1669.2	1567.7	1547.2	1489.6	1402.7	1316.8	1266.1
5812.0	47.5°	5480.1	4703.1	2375.0	1520.8	1453.5	1475.9	1431.0	1351.0	1255.3	1175.3
6279.6	50°	5838.4	4922.7	2124.1	1370.5	1360.8	1454.5	1411.5	1296.3	1187.0	1084.5
6738.4	52.5°	6193.7	5100.4	1803.0	1233.9	1311.0	1448.6	1386.1	1259.2	1125.5	1018.1
7169.8	55°	6495.3	5192.2	1493.5	1116.7	1238.7	1398.8	1355.9	1215.3	1038.6	924.4
7465.6	57.5°	6667.1	5118.0	1235.8	1001.5	1139.2	1316.8	1304.1	1121.6	935.2	847.3
7523.2	60°	6592.9	4817.3	1025.0	901.0	1044.5	1228.0	1214.3	1028.9	856.1	773.1
7214.7	62.5°	6183.9	4244.3	858.0	813.1	958.6	1137.2	1124.5	957.6	795.6	715.5
6395.8	65°	5360.1	3452.7	728.2	739.9	871.7	1027.9	1046.4	898.1	747.7	669.6
4948.1	67.5°	4088.1	2500.9	626.7	676.5	786.8	920.5	974.2	855.1	707.7	633.5
2863.1	70°	2330.1	1420.3	540.8	615.0	711.6	820.9	918.6	820.9	664.8	603.3
1072.8	72.5°	883.4	652.1	467.6	553.5	639.4	737.0	857.1	767.3	615.0	569.1
554.5	75°	471.5	397.3	393.4	481.2	556.4	655.0	779.9	714.5	577.9	601.3
383.6	77.5°	321.2	281.1	329.0	411.9	465.6	564.2	697.9	634.5	500.8	498.8
265.5	80°	222.6	199.1	267.5	331.9	360.2	474.4	609.1	544.7	408.0	380.7
164.0	82.5°	133.7	129.8	200.1	247.9	254.8	366.1	504.7	456.8	333.8	290.9
97.6	85°	73.2	77.1	127.9	145.4	148.4	255.8	395.3	353.4	256.7	215.7
35.1	87.5°	20.5	26.4	46.9	57.6	71.3	132.8	235.3	209.9	128.9	89.8
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>
2406.2
2582.9
2695.2
2727.4
2709.8
2668.8
2612.2
2516.5
2412.1
2345.7
2291.0
2230.5
2163.2
2064.6
1936.7
1774.6
1590.2
1405.7
1262.2
1166.5
1075.7
1006.4
914.7
835.6
761.4
702.8
657.0
621.8
595.5
561.3
620.8
459.8
364.1
292.8
217.7
89.8
0.0

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