

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: P941729

Luminaire Tested: **GALN-SB5B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941729
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-SB5B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 17113 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

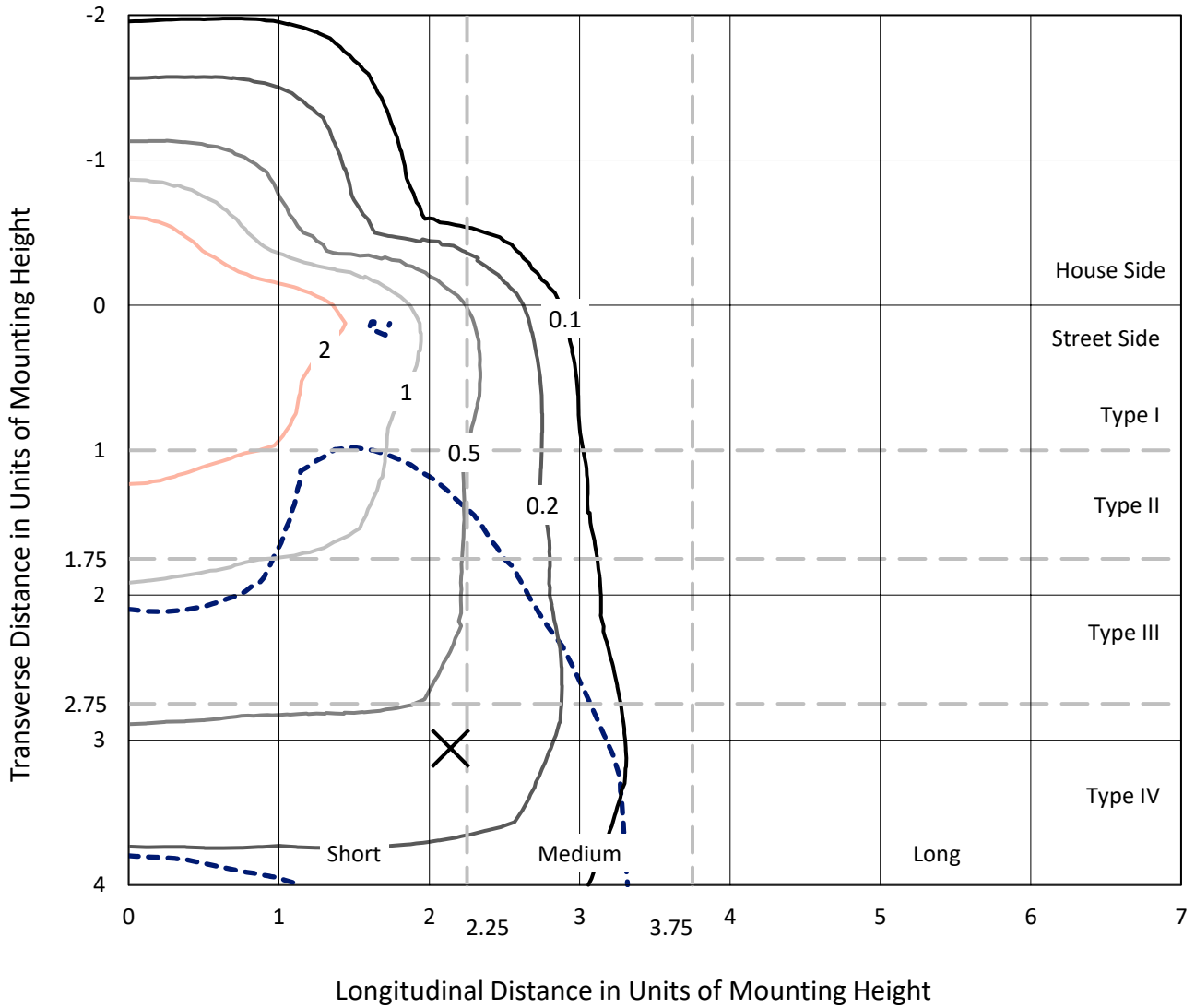
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

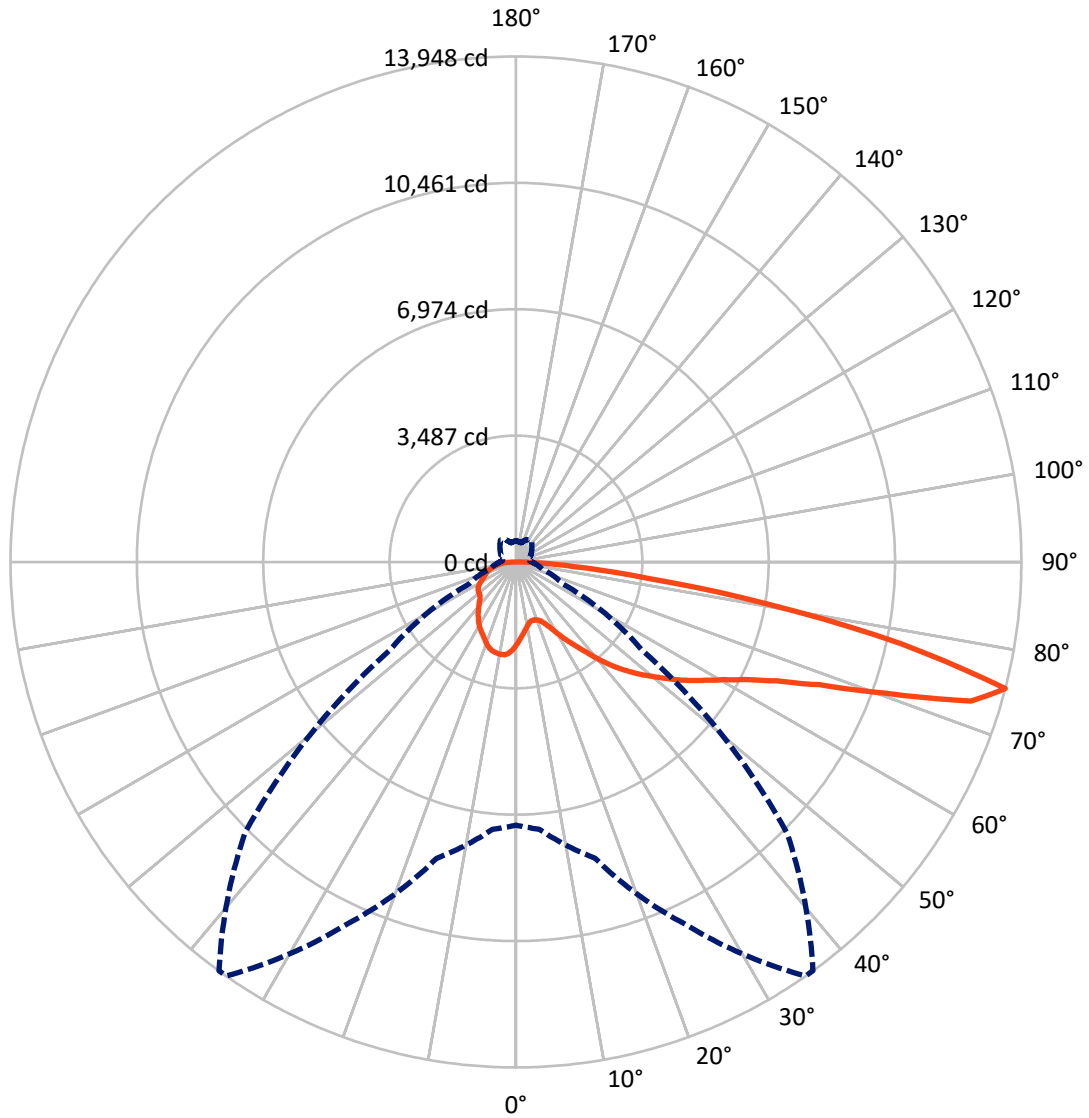
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	4072.5	0.0	4072.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13040.5	0.0	13040.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	17113.0	0.0	17113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	1.3
10°-20°	622.8	3.6
20°-30°	1045.8	6.1
30°-40°	1625.3	9.5
40°-50°	2412.4	14.1
50°-60°	3330.5	19.5
60°-70°	4040.7	23.6
70°-80°	3339.3	19.5
80°-90°	480.3	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°	17113.0	100.0
0°-180°	17113.0	100.0

Coefficient of Utilization



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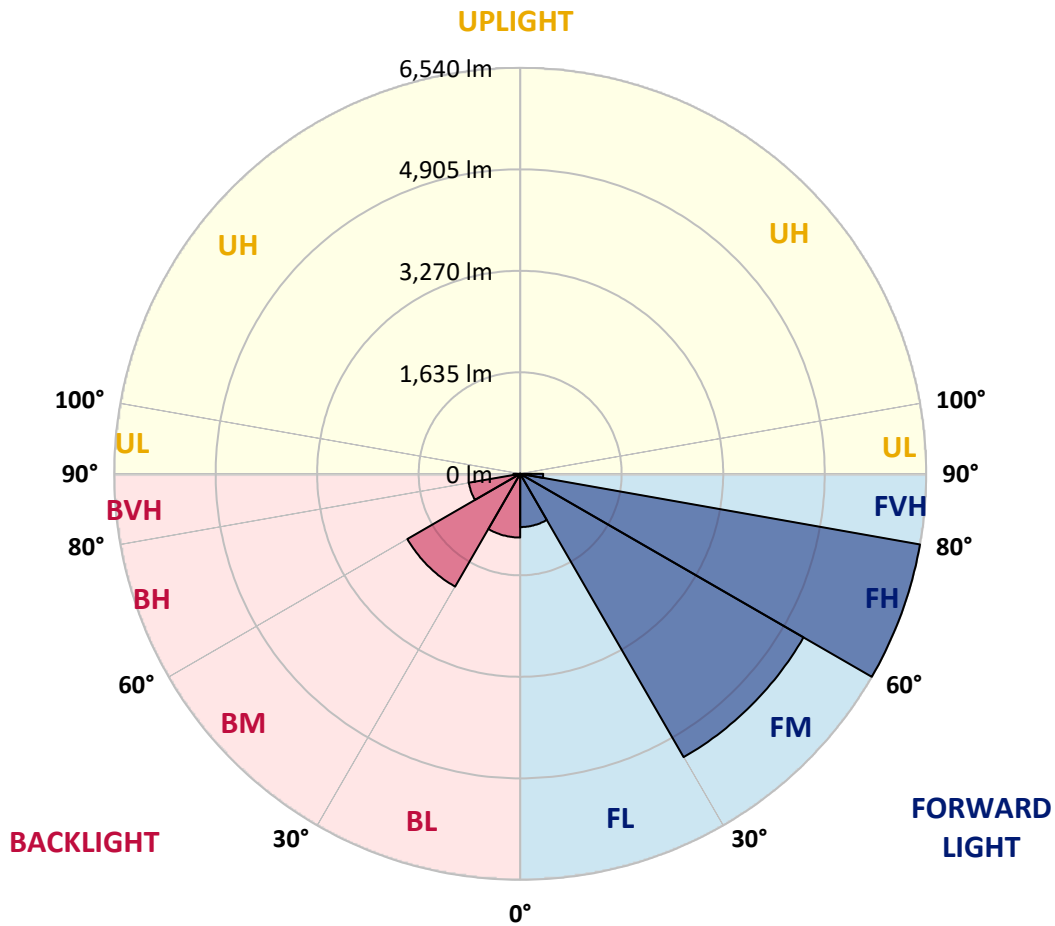
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.2	5.0			
FM (30°-60°)	5269.9	30.8			
FH (60°-80°)	6540.3	38.2			G3/7500
FVH (80°-90°)	372.1	2.2			G3/500
BL (0°-30°)	1026.3	6.0	B3/2500		
BM (30°-60°)	2098.4	12.3	B2/2500		
BH (60°-80°)	839.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	108.2	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°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2102.8	2115.8	2121.3	2118.5	2132.4	2130.6	2150.0	2174.0	2207.3	2239.7
5°	1940.9	1954.8	1966.8	1977.9	2004.7	2013.1	2043.6	2089.8	2150.9	2212.9
7.5°	1790.1	1802.1	1820.6	1841.0	1886.3	1894.6	1945.5	2017.7	2102.8	2193.5
10°	1667.1	1679.1	1698.5	1721.6	1778.1	1788.3	1853.0	1949.2	2060.2	2175.0
12.5°	1614.3	1618.0	1629.1	1652.3	1701.3	1707.8	1779.0	1889.1	2018.6	2161.1
15°	1611.6	1619.0	1619.9	1631.9	1672.6	1675.4	1741.1	1850.2	1992.7	2158.3
17.5°	1639.3	1644.9	1636.5	1643.9	1678.2	1682.8	1734.6	1831.7	1984.4	2170.3
20°	1713.3	1717.9	1693.0	1682.8	1707.8	1711.5	1762.4	1843.8	1992.7	2195.3
22.5°	1870.6	1873.4	1812.3	1770.7	1772.5	1774.4	1818.8	1892.8	2025.1	2240.6
25°	2115.8	2113.9	2016.8	1936.3	1890.0	1879.8	1909.4	1972.4	2079.7	2300.8
27.5°	2402.5	2388.7	2291.5	2171.3	2070.4	2055.6	2049.1	2076.0	2157.4	2380.3
30°	2726.3	2713.4	2608.8	2451.6	2311.9	2287.8	2226.8	2212.9	2273.0	2488.6
32.5°	3081.6	3073.3	2948.4	2757.8	2570.9	2543.2	2440.5	2403.5	2450.6	2652.3
35°	3379.5	3372.1	3268.5	3072.3	2843.8	2809.6	2705.1	2663.4	2687.5	2862.3
37.5°	3648.7	3645.0	3556.2	3401.7	3165.8	3124.1	3006.6	2992.8	2988.1	3138.9
40°	3898.5	3889.2	3796.7	3715.3	3540.4	3502.5	3398.9	3386.9	3351.7	3479.4
42.5°	4175.1	4151.0	4016.9	3978.9	3931.8	3900.3	3838.3	3840.2	3762.5	3863.3
45°	4400.8	4386.9	4249.1	4226.9	4277.8	4264.8	4318.5	4332.3	4181.5	4265.7
47.5°	4643.2	4630.2	4513.7	4497.9	4635.8	4639.5	4829.1	4833.8	4590.4	4683.9
50°	4942.0	4923.5	4807.9	4827.3	4981.8	4995.7	5342.6	5311.1	4967.0	5108.5
52.5°	5139.0	5150.1	5125.2	5156.6	5367.6	5380.5	5847.7	5767.2	5339.8	5527.6
55°	5284.3	5306.5	5384.2	5456.4	5774.6	5787.6	6324.1	6201.1	5648.8	5916.1
57.5°	5471.2	5439.7	5585.0	5725.6	6161.3	6195.5	6787.6	6619.2	5922.6	6251.0
60°	5739.5	5717.2	5830.1	6038.3	6594.3	6648.8	7277.9	6995.8	6123.4	6516.6
62.5°	6283.4	6227.9	6245.5	6429.6	7140.1	7212.2	7831.1	7324.2	6223.3	6620.2
65°	7096.6	7001.3	6912.5	7040.2	7908.9	7980.1	8455.6	7582.3	6186.3	6419.4
67.5°	8120.7	8026.3	7917.2	8037.5	9041.2	9097.6	9226.2	7727.5	5894.9	5646.0
70°	8965.3	8930.2	9060.6	9555.6	10849.8	10851.7	10214.3	7607.3	5096.5	4003.0
72.5°	8853.4	8832.1	9519.5	11049.6	13129.3	13080.3	11149.6	6697.0	3433.1	1805.8
75°	7263.1	7401.0	8465.8	11022.8	13948.0	13941.6	10576.9	4257.4	1420.1	748.4
77.5°	3894.8	4113.1	5496.1	8138.3	10888.7	11052.4	7436.1	1489.4	609.7	479.2
80°	1270.2	1460.8	2190.7	4143.6	7075.3	7044.8	3187.0	584.7	417.2	339.5
82.5°	539.3	561.5	978.8	1956.6	3631.1	3574.7	1014.9	335.8	293.3	232.2
85°	210.9	235.9	432.0	904.8	1572.7	1538.5	366.3	166.5	187.8	151.7
87.5°	69.4	84.2	154.5	309.9	489.4	471.8	89.7	57.4	81.4	69.4
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°
2280.4	0°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2286.9	2.5°	2299.9	2314.7	2332.2	2358.1	2380.3	2398.8	2418.3	2430.3	2434.9	2448.8
2290.6	5°	2316.5	2348.9	2392.4	2434.9	2476.5	2501.5	2523.7	2534.8	2545.0	2552.4
2300.8	7.5°	2344.3	2385.9	2454.3	2509.9	2545.0	2565.4	2580.2	2576.5	2580.2	2582.0
2311.9	10°	2368.3	2426.6	2508.0	2560.7	2587.6	2588.5	2584.8	2571.8	2565.4	2566.3
2328.5	12.5°	2397.0	2461.7	2549.6	2594.0	2601.4	2581.1	2565.4	2543.2	2534.8	2531.1
2353.5	15°	2435.8	2509.9	2595.0	2611.6	2593.1	2567.2	2540.4	2504.3	2485.8	2471.0
2396.1	17.5°	2483.0	2564.4	2630.1	2618.1	2578.3	2535.8	2492.3	2437.7	2399.8	2384.0
2454.3	20°	2548.7	2621.8	2656.9	2604.2	2544.1	2479.3	2405.3	2338.7	2303.6	2287.8
2528.4	22.5°	2628.3	2698.6	2682.9	2580.2	2495.1	2391.4	2298.9	2249.9	2232.3	2221.2
2623.6	25°	2723.6	2783.7	2701.4	2545.0	2414.6	2274.9	2203.6	2187.9	2179.6	2171.3
2740.2	27.5°	2847.5	2879.9	2715.2	2493.2	2288.7	2150.9	2125.0	2127.8	2125.0	2111.1
2902.1	30°	3011.3	3004.8	2728.2	2409.0	2144.4	2039.0	2040.8	2052.8	2054.7	2045.4
3127.8	32.5°	3226.8	3161.1	2734.7	2299.9	2006.6	1940.9	1942.8	1955.7	1965.0	1949.2
3422.9	35°	3487.7	3343.4	2724.5	2162.9	1900.2	1847.5	1833.6	1837.3	1840.1	1825.3
3781.0	37.5°	3792.1	3547.8	2679.2	2011.2	1812.3	1755.9	1726.3	1701.3	1686.5	1672.6
4186.2	40°	4126.0	3770.8	2595.9	1863.2	1714.2	1658.7	1614.3	1567.2	1517.2	1498.7
4615.4	42.5°	4475.7	4000.2	2495.1	1721.6	1601.4	1556.1	1508.9	1440.4	1365.5	1327.5
5061.3	45°	4838.4	4235.2	2396.1	1582.0	1485.7	1466.3	1411.7	1329.4	1248.0	1199.9
5508.2	47.5°	5193.6	4457.2	2250.8	1441.3	1377.5	1398.8	1356.2	1280.4	1189.7	1113.8
5951.3	50°	5533.1	4665.4	2013.1	1298.9	1289.6	1378.4	1337.7	1228.6	1124.9	1027.8
6386.1	52.5°	5869.9	4833.8	1708.7	1169.4	1242.4	1372.9	1313.7	1193.4	1066.7	964.9
6795.0	55°	6155.8	4920.7	1415.4	1058.3	1174.0	1325.7	1285.0	1151.8	984.3	876.1
7075.3	57.5°	6318.6	4850.4	1171.2	949.2	1079.6	1248.0	1236.0	1063.0	886.3	803.0
7129.9	60°	6248.3	4565.5	971.4	853.9	989.9	1163.8	1150.9	975.1	811.3	732.7
6837.6	62.5°	5860.6	4022.4	813.2	770.6	908.5	1077.8	1065.7	907.5	754.0	678.1
6061.4	65°	5079.8	3272.2	690.1	701.2	826.1	974.2	991.7	851.1	708.6	634.6
4689.4	67.5°	3874.4	2370.2	593.9	641.1	745.6	872.4	923.3	810.4	670.7	600.4
2713.4	70°	2208.3	1346.1	512.5	582.8	674.4	778.0	870.5	778.0	630.0	571.7
1016.7	72.5°	837.2	618.0	443.1	524.5	606.0	698.5	812.3	727.1	582.8	539.3
525.5	75°	446.8	376.5	372.8	456.1	527.3	620.8	739.2	677.2	547.7	569.9
363.6	77.5°	304.4	266.4	311.8	390.4	441.3	534.7	661.5	601.3	474.6	472.7
251.6	80°	210.9	188.7	253.5	314.5	341.4	449.6	577.3	516.2	386.7	360.8
155.4	82.5°	126.7	123.0	189.6	235.0	241.5	346.9	478.3	433.0	316.4	275.7
92.5	85°	69.4	73.1	121.2	137.8	140.6	242.4	374.7	334.9	243.3	204.5
33.3	87.5°	19.4	25.0	44.4	54.6	67.5	125.8	223.0	198.9	122.1	85.1
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>
2280.4
2447.9
2554.3
2584.8
2568.1
2529.3
2475.6
2385.0
2286.0
2223.1
2171.3
2113.9
2050.1
1956.6
1835.4
1681.9
1507.0
1332.2
1196.2
1105.5
1019.5
953.8
866.8
791.9
721.6
666.1
622.6
589.3
564.3
531.9
588.4
435.7
345.1
277.5
206.3
85.1
0.0

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