

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: P940822

Luminaire Tested: **GALN-SB4A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

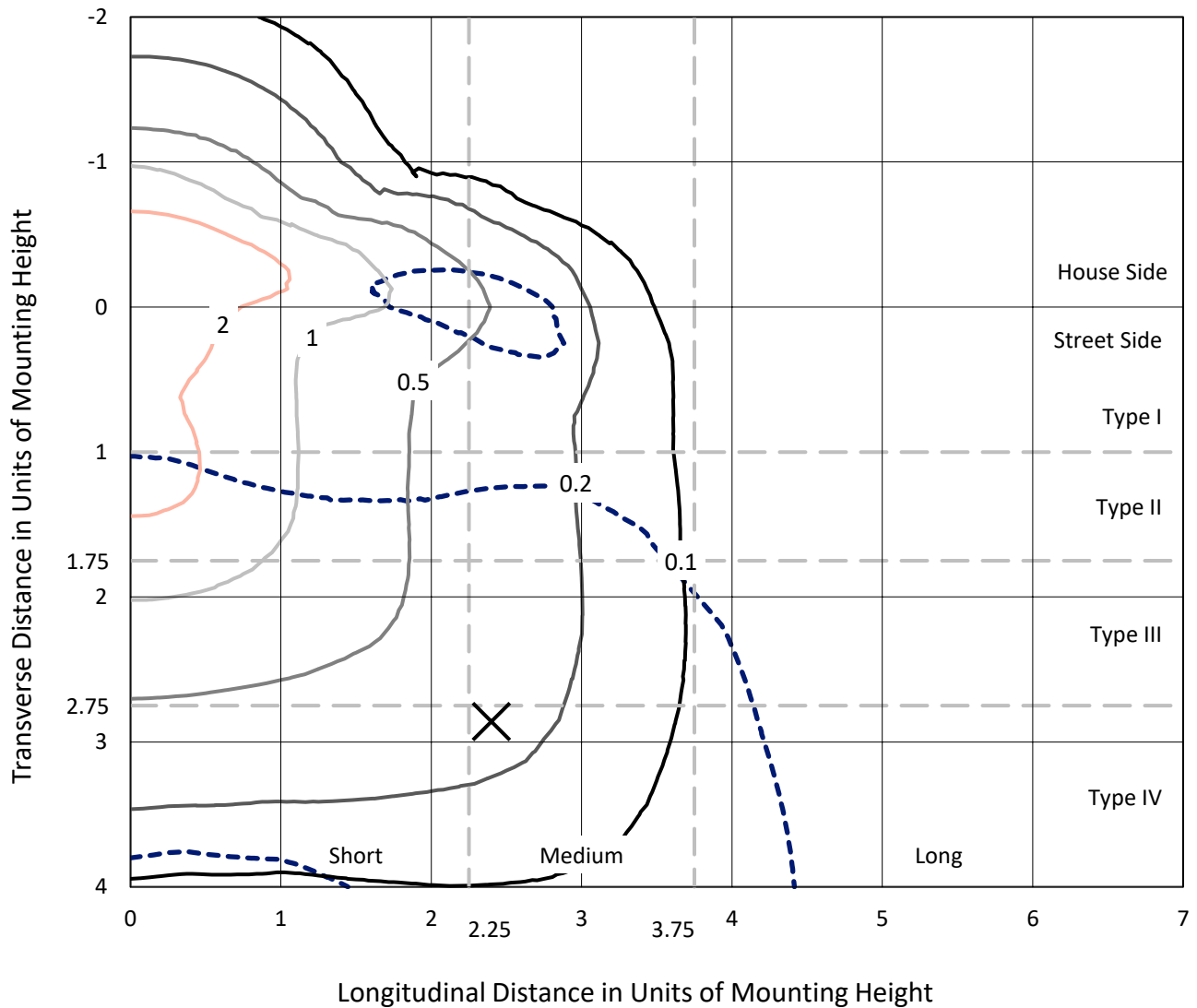
Lumens per Lamp: N/A  
Luminaire Lumens: 15496 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P940822  
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### Iso-Footcandle Lines of Horizontal Illumination

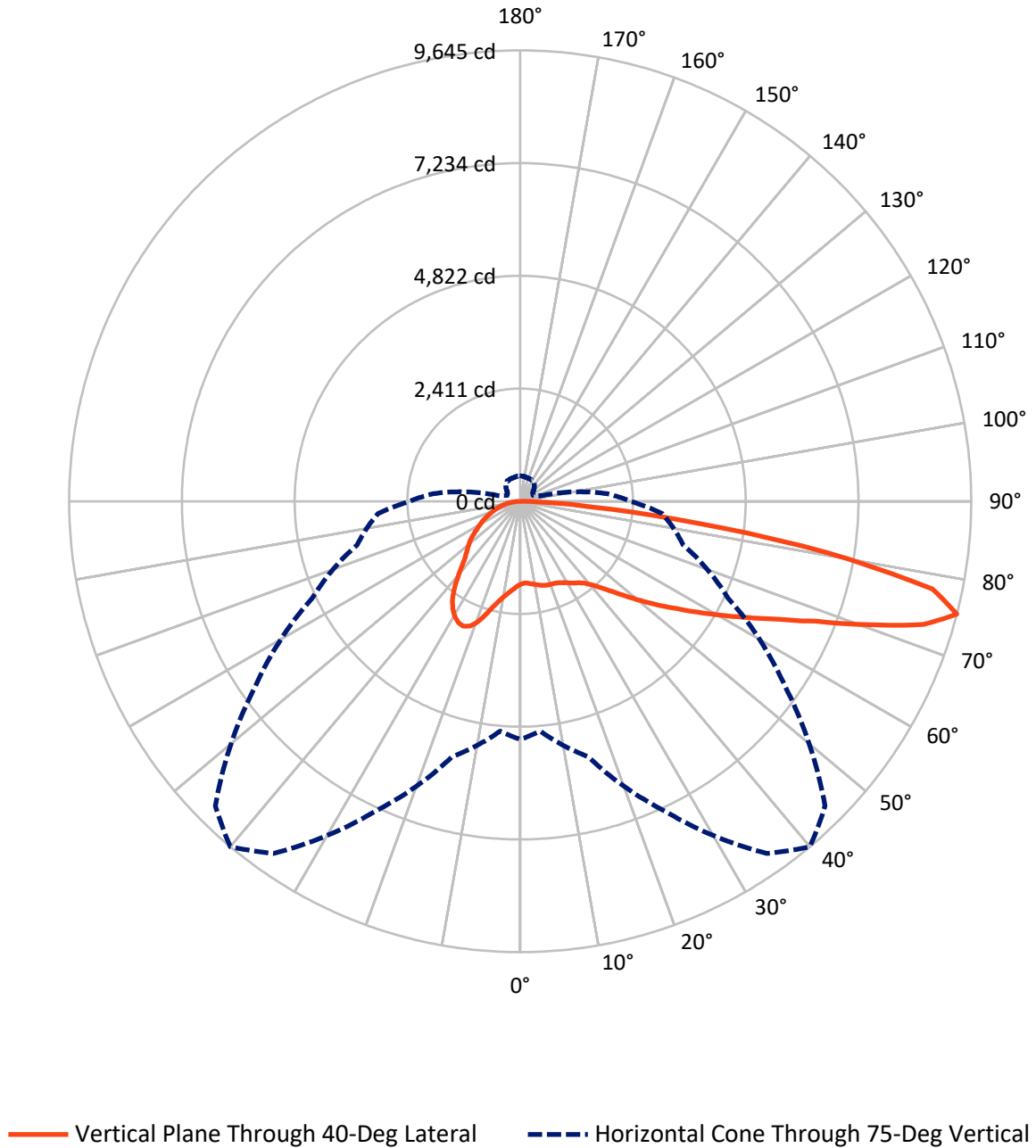
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P940822  
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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4801.2	0.0	4801.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	10694.8	0.0	10694.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	15496.0	0.0	15496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.9	1.1
10°-20°	593.9	3.8
20°-30°	1084.3	7.0
30°-40°	1537.9	9.9
40°-50°	2076.6	13.4
50°-60°	2793.6	18.0
60°-70°	3545.7	22.9
70°-80°	3218.0	20.8
80°-90°	469.1	3.0
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°	15496.0	100.0
0°-180°	15496.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940822

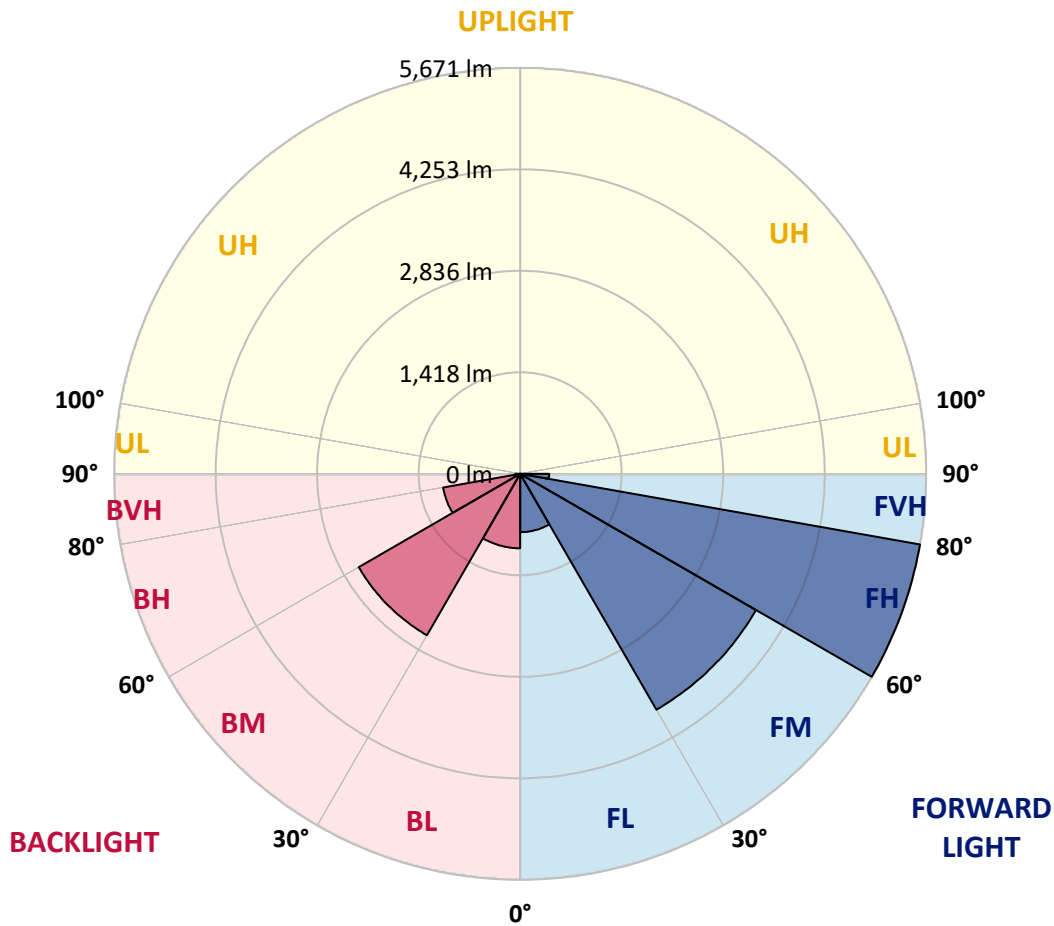
CATALOG NUMBER: GALN-SB4A-827-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.1	5.3			
FM (30°-60°)	3803.9	24.5			
FH (60°-80°)	5671.3	36.6			G3/7500
FVH (80°-90°)	404.5	2.6			G3/500
BL (0°-30°)	1040.0	6.7	B3/2500		
BM (30°-60°)	2604.2	16.8	B3/5000		
BH (60°-80°)	1092.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	64.6	0.4			G1/100
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 Medium



REPORT NUMBER: P940822

CATALOG NUMBER: GALN-SB4A-827-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0
2.5°	1744.9	1754.7	1752.3	1749.0	1749.0	1749.8	1749.0	1754.7	1760.5	1766.2
5°	1762.9	1772.8	1767.9	1763.8	1760.5	1759.7	1757.2	1756.4	1759.7	1767.1
7.5°	1798.3	1808.2	1800.8	1793.4	1786.8	1783.5	1780.2	1775.3	1772.8	1776.9
10°	1837.7	1847.6	1838.6	1825.4	1814.7	1810.6	1807.3	1802.4	1799.1	1801.6
12.5°	1877.2	1887.1	1874.7	1856.6	1842.7	1840.2	1836.1	1834.5	1833.6	1832.8
15°	1914.2	1922.4	1906.8	1885.4	1870.6	1866.5	1862.4	1864.9	1869.0	1873.9
17.5°	1942.9	1951.2	1928.1	1900.2	1886.2	1884.6	1882.1	1890.3	1901.8	1914.2
20°	1969.2	1977.5	1947.9	1910.1	1893.6	1893.6	1894.4	1911.7	1928.1	1946.2
22.5°	2006.2	2012.8	1976.6	1924.9	1901.0	1902.7	1909.2	1926.5	1947.1	1971.7
25°	2061.3	2066.2	2021.8	1952.8	1925.7	1930.6	1936.4	1944.6	1964.3	1993.1
27.5°	2150.1	2154.2	2095.8	2002.1	1961.0	1969.2	1977.5	1971.7	1980.7	2005.4
30°	2275.0	2277.4	2203.5	2079.4	2021.0	2025.1	2026.8	2002.9	1985.7	2005.4
32.5°	2422.9	2422.1	2334.2	2173.1	2089.2	2085.1	2071.2	2024.3	1984.0	2001.3
35°	2652.2	2643.2	2529.8	2304.6	2166.5	2141.0	2108.1	2048.1	1992.3	1997.2
37.5°	3031.9	3004.0	2847.0	2519.9	2281.6	2216.6	2168.1	2086.8	2010.3	1995.5
40°	3460.1	3424.8	3252.2	2815.0	2454.2	2349.8	2271.7	2141.8	2039.9	2002.9
42.5°	3968.1	3917.9	3732.2	3162.6	2672.8	2521.5	2404.0	2211.7	2083.5	2026.8
45°	4591.9	4525.3	4262.3	3554.7	2948.1	2746.7	2589.8	2317.7	2150.1	2072.8
47.5°	5222.3	5238.7	4864.7	4003.4	3278.5	3024.5	2822.4	2477.2	2247.0	2146.8
50°	5892.1	5903.6	5463.9	4500.7	3653.3	3338.5	3083.7	2655.5	2381.8	2252.0
52.5°	6414.8	6416.5	6008.0	5020.9	4043.7	3683.7	3365.6	2859.3	2538.0	2391.7
55°	6741.9	6737.8	6389.3	5513.2	4492.4	4046.1	3677.9	3091.1	2728.7	2556.1
57.5°	6979.5	6967.1	6652.4	5936.5	4970.8	4474.4	4031.4	3354.1	2953.9	2751.7
60°	7069.9	7062.5	6830.7	6302.2	5473.8	4947.8	4439.0	3648.4	3209.5	2982.6
62.5°	7104.4	7118.4	7005.8	6656.5	6012.1	5472.1	4886.9	4000.1	3497.1	3244.0
65°	7226.0	7251.5	7228.5	7120.0	6620.3	6086.1	5481.2	4418.5	3811.1	3524.3
67.5°	7466.8	7492.3	7502.2	7674.8	7363.3	6851.2	6222.5	4939.5	4178.5	3815.2
70°	7461.1	7453.7	7627.9	8116.1	8293.7	7910.7	7221.9	5580.6	4616.5	4056.8
72.5°	6791.3	6732.1	7143.8	8111.2	9067.9	9016.9	8442.4	6407.4	4994.6	4086.4
75°	5094.9	4937.1	5664.4	7309.9	9196.9	9644.8	9218.3	6920.3	4905.0	3610.5
77.5°	2178.8	2020.2	2877.4	5411.3	8231.2	9016.1	8506.5	6037.6	3915.5	2387.6
80°	570.4	569.6	869.6	2453.3	5597.9	6658.1	5841.2	3899.0	2237.2	853.1
82.5°	235.9	230.1	319.7	954.2	2735.2	3736.3	3049.2	1739.1	807.9	231.0
85°	87.9	87.1	155.3	329.6	964.9	1541.0	1115.3	444.6	201.4	112.6
87.5°	24.7	23.8	33.7	114.2	235.1	356.7	190.7	73.1	56.7	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940822  
 CATALOG NUMBER: GALN-SB4A-827-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1772.0	0°	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0
1775.3	2.5°	1777.7	1781.9	1789.2	1795.0	1802.4	1810.6	1822.1	1829.5	1836.9	1841.8
1779.4	5°	1785.1	1794.2	1813.1	1832.0	1854.2	1874.7	1898.6	1915.8	1929.8	1933.9
1794.2	7.5°	1801.6	1816.4	1848.4	1880.5	1915.8	1949.5	1984.0	2013.6	2037.5	2046.5
1820.5	10°	1830.3	1850.1	1895.3	1940.5	1987.3	2039.1	2083.5	2126.2	2159.9	2173.9
1851.7	12.5°	1866.5	1891.2	1950.3	2012.8	2077.7	2149.2	2206.8	2259.4	2301.3	2320.2
1895.3	15°	1913.4	1945.4	2021.0	2104.9	2200.2	2299.6	2372.8	2431.1	2478.0	2501.0
1940.5	17.5°	1964.3	2007.0	2102.4	2229.0	2365.4	2496.1	2581.5	2624.3	2672.8	2695.0
1982.4	20°	2013.6	2066.2	2202.7	2386.8	2568.4	2707.3	2776.3	2787.8	2791.1	2793.6
2021.8	22.5°	2064.6	2135.3	2328.4	2585.7	2780.4	2876.6	2886.5	2837.2	2768.1	2736.1
2060.5	25°	2120.5	2214.2	2492.8	2805.1	2962.9	2974.4	2898.8	2778.8	2648.1	2588.1
2091.7	27.5°	2174.7	2305.4	2690.0	3014.7	3094.4	2993.3	2830.6	2660.4	2502.6	2439.4
2113.9	30°	2229.0	2409.8	2907.8	3198.0	3154.4	2946.5	2722.9	2533.1	2374.4	2307.9
2133.6	32.5°	2284.0	2531.4	3158.5	3330.3	3143.7	2847.0	2588.9	2390.0	2250.3	2180.5
2150.9	35°	2346.5	2681.0	3396.0	3402.6	3072.2	2700.7	2412.2	2219.1	2097.5	2041.6
2171.4	37.5°	2427.9	2870.9	3605.6	3420.7	2947.3	2486.2	2192.8	2016.9	1916.6	1891.2
2201.8	40°	2528.9	3099.3	3765.9	3391.9	2762.4	2225.7	1952.8	1812.3	1755.6	1761.3
2242.9	42.5°	2660.4	3354.9	3878.5	3318.0	2505.1	1956.9	1742.4	1679.9	1707.1	1730.1
2304.6	45°	2831.4	3620.4	3948.3	3192.2	2214.2	1729.3	1618.3	1633.1	1653.6	1656.1
2404.0	47.5°	3050.0	3889.2	3994.4	3002.4	1917.5	1569.0	1539.4	1542.7	1538.6	1521.3
2552.8	50°	3322.9	4150.5	4035.5	2750.9	1665.1	1468.7	1429.3	1417.8	1361.0	1305.2
2750.9	52.5°	3633.6	4390.5	4052.7	2438.5	1468.7	1384.9	1320.8	1248.4	1142.4	1125.2
2999.9	55°	3978.8	4612.4	4008.3	2054.7	1303.5	1277.2	1180.2	1093.1	1081.6	1066.8
3327.8	57.5°	4391.3	4851.6	3917.9	1626.5	1134.2	1151.5	1056.9	1066.8	1046.3	1023.2
3749.4	60°	4842.6	5099.0	3759.3	1236.1	959.1	994.5	1024.9	1024.1	1018.3	999.4
4194.1	62.5°	5248.6	5261.7	3447.0	946.8	805.4	872.8	955.9	955.0	950.1	939.4
4658.5	65°	5490.2	5237.1	2925.9	745.5	678.9	772.6	862.2	868.7	869.6	868.7
5007.8	67.5°	5447.5	4948.6	2210.9	593.4	574.5	670.7	769.3	778.3	784.9	786.5
5052.1	70°	4964.2	4314.9	1441.6	473.4	481.6	581.1	681.3	690.4	696.1	702.7
4383.9	72.5°	3869.4	3172.5	825.2	383.0	400.3	503.8	594.2	604.9	608.2	620.5
3050.8	75°	2358.0	1865.7	445.5	301.6	328.8	430.7	507.9	520.3	526.0	540.8
1498.3	77.5°	1121.1	807.9	254.0	235.1	264.6	351.8	429.0	443.0	427.4	435.6
413.4	80°	378.9	300.0	160.3	179.2	202.2	274.5	343.5	357.5	324.6	323.0
137.3	82.5°	132.3	121.6	101.9	119.2	130.7	196.4	259.7	277.8	241.6	240.8
61.6	85°	51.8	49.3	56.7	64.9	78.1	120.8	171.0	180.0	148.8	120.0
18.1	87.5°	10.7	11.5	14.0	14.8	23.8	41.9	61.6	75.6	60.0	51.0
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>
1772.0
1838.6
1935.5
2047.3
2174.7
2320.2
2499.4
2694.1
2800.2
2745.1
2597.2
2446.8
2315.3
2189.5
2053.9
1909.2
1781.0
1751.4
1672.5
1534.5
1312.6
1130.9
1069.3
1019.1
992.8
935.3
868.7
788.2
706.0
625.5
542.4
429.0
319.7
229.3
118.4
46.8
0.0

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