

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: P941082

Luminaire Tested: **GALN-SB4B-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941082  
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-SB4B-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

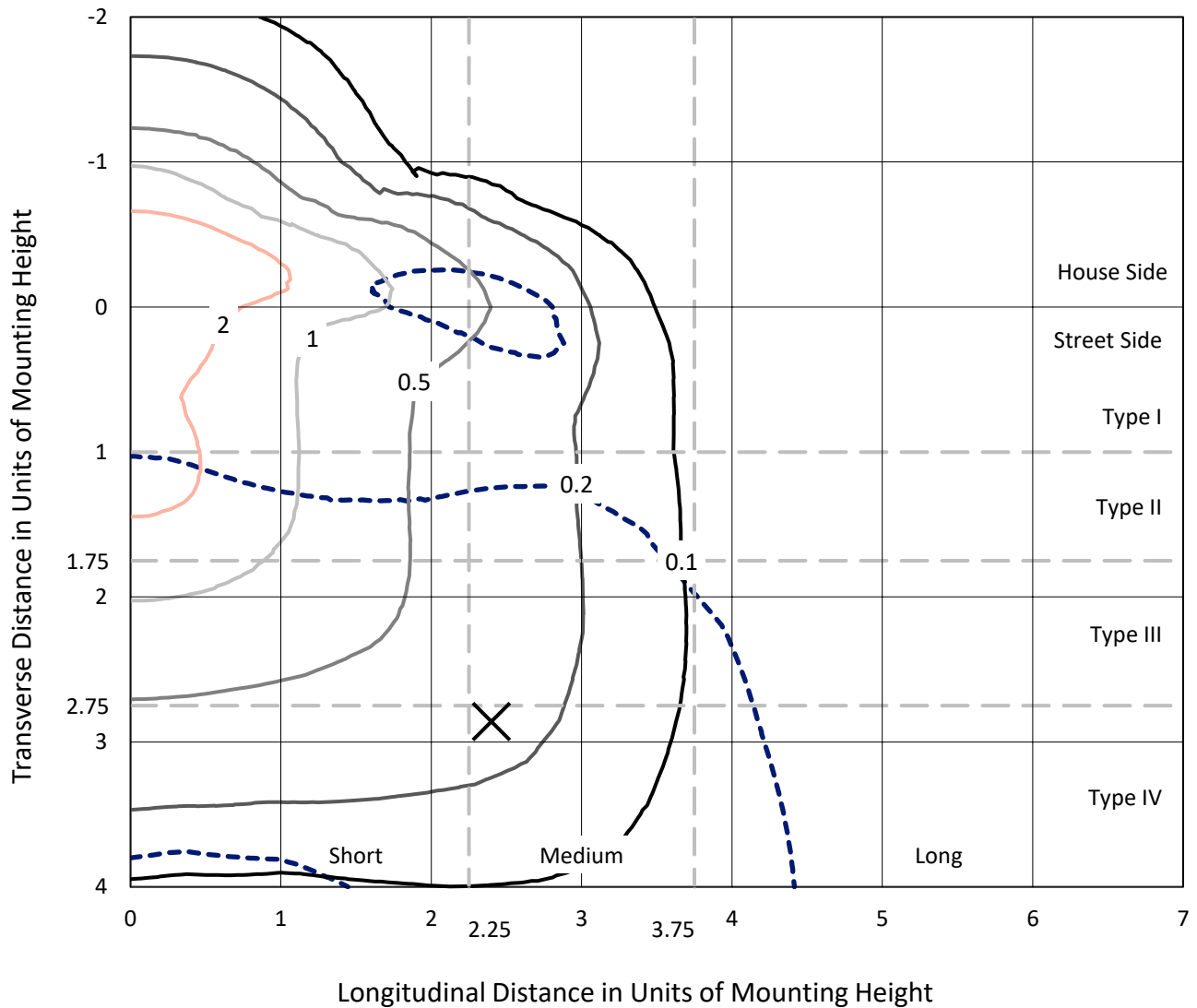
Lumens per Lamp: N/A  
Luminaire Lumens: 15562 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

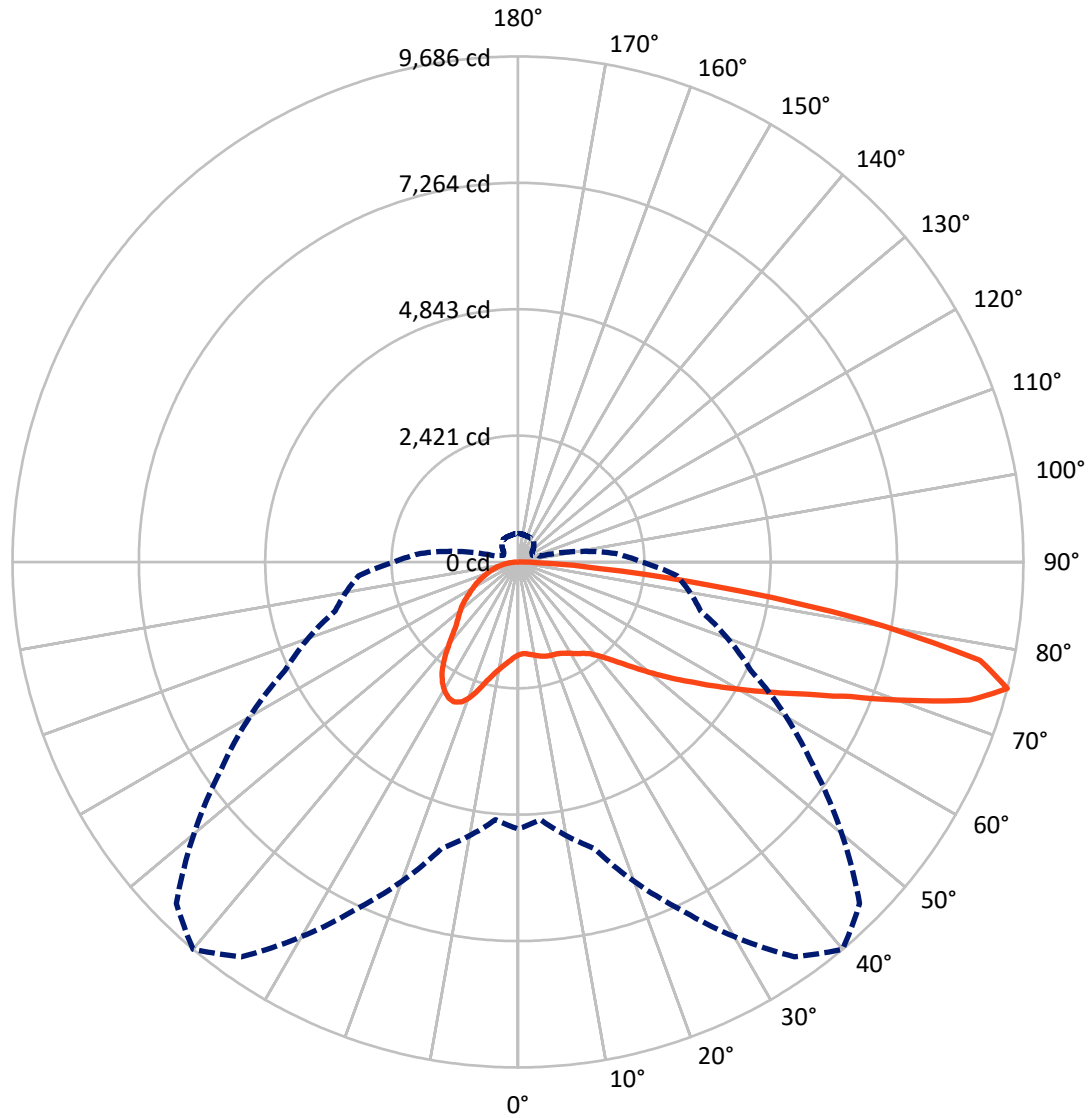
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4821.6	0.0	4821.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	10740.4	0.0	10740.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	15562.0	0.0	15562.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	1.1
10°-20°	596.4	3.8
20°-30°	1089.0	7.0
30°-40°	1544.4	9.9
40°-50°	2085.5	13.4
50°-60°	2805.5	18.0
60°-70°	3560.8	22.9
70°-80°	3231.7	20.8
80°-90°	471.1	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°	15562.0	100.0
0°-180°	15562.0	100.0

**Coefficient of Utilization**

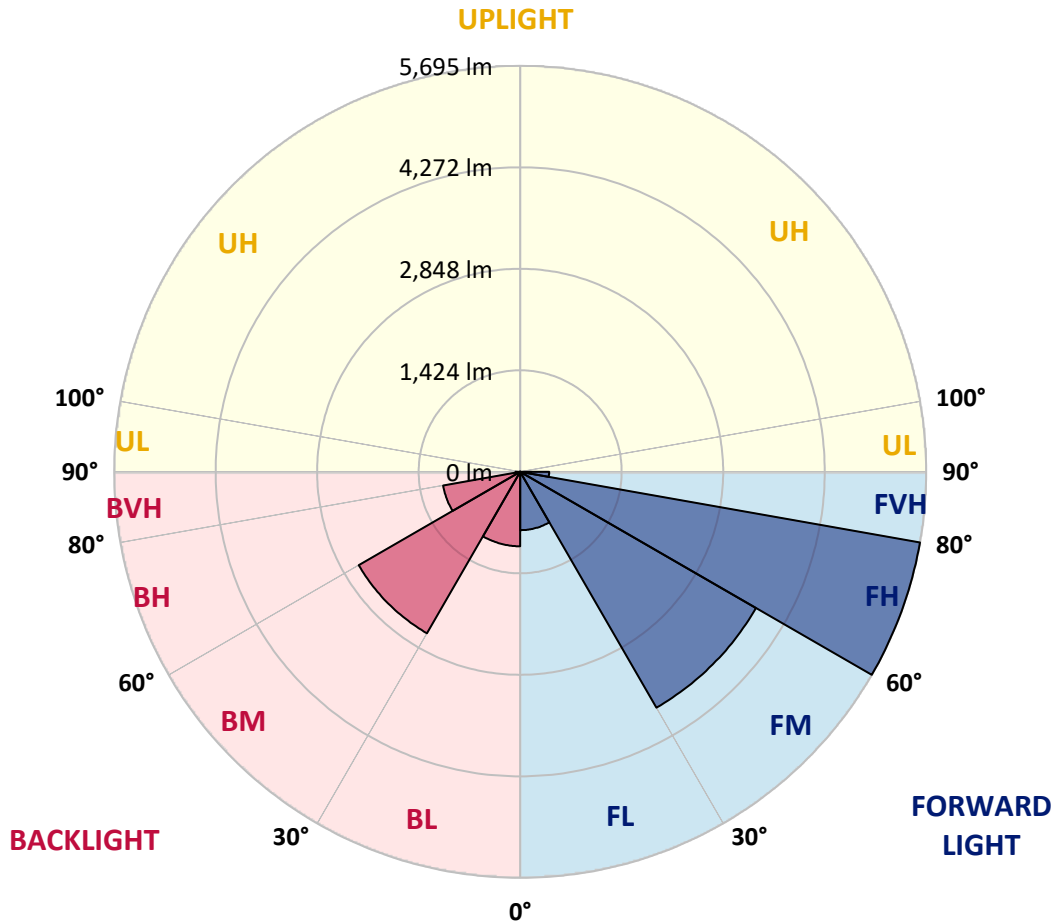


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.6	5.3			
FM (30°-60°)	3820.1	24.5			
FH (60°-80°)	5695.5	36.6			G3/7500
FVH (80°-90°)	406.2	2.6			G3/500
BL (0°-30°)	1044.4	6.7	B3/2500		
BM (30°-60°)	2615.3	16.8	B3/5000		
BH (60°-80°)	1097.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	64.9	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	1752.3	1762.2	1759.7	1756.4	1756.4	1757.2	1756.4	1762.2	1768.0	1773.8
5°	1770.5	1780.4	1775.4	1771.3	1768.0	1767.2	1764.7	1763.9	1767.2	1774.6
7.5°	1805.9	1815.9	1808.4	1801.0	1794.4	1791.1	1787.8	1782.8	1780.4	1784.5
10°	1845.6	1855.5	1846.4	1833.2	1822.5	1818.3	1815.0	1810.1	1806.8	1809.2
12.5°	1885.2	1895.1	1882.7	1864.6	1850.5	1848.0	1843.9	1842.3	1841.4	1840.6
15°	1922.3	1930.6	1914.9	1893.4	1878.6	1874.5	1870.3	1872.8	1876.9	1881.9
17.5°	1951.2	1959.5	1936.4	1908.3	1894.3	1892.6	1890.1	1898.4	1909.9	1922.3
20°	1977.6	1985.9	1956.2	1918.2	1901.7	1901.7	1902.5	1919.9	1936.4	1954.5
22.5°	2014.8	2021.4	1985.1	1933.1	1909.1	1910.8	1917.4	1934.7	1955.3	1980.1
25°	2070.1	2075.0	2030.5	1961.1	1933.9	1938.8	1944.6	1952.9	1972.7	2001.6
27.5°	2159.2	2163.3	2104.7	2010.6	1969.4	1977.6	1985.9	1980.1	1989.2	2013.9
30°	2284.7	2287.1	2212.9	2088.2	2029.6	2033.8	2035.4	2011.5	1994.1	2013.9
32.5°	2433.2	2432.4	2344.1	2182.3	2098.1	2094.0	2080.0	2032.9	1992.5	2009.8
35°	2663.5	2654.4	2540.5	2314.4	2175.7	2150.1	2117.1	2056.9	2000.7	2005.7
37.5°	3044.9	3016.8	2859.1	2530.6	2291.3	2226.1	2177.4	2095.7	2018.9	2004.0
40°	3474.9	3439.4	3266.1	2827.0	2464.6	2359.8	2281.4	2151.0	2048.6	2011.5
42.5°	3985.0	3934.6	3748.1	3176.1	2684.2	2532.3	2414.3	2221.1	2092.4	2035.4
45°	4611.4	4544.6	4280.5	3569.8	2960.7	2758.4	2600.8	2327.6	2159.2	2081.6
47.5°	5244.5	5261.0	4885.5	4020.5	3292.5	3037.4	2834.4	2487.7	2256.6	2155.9
50°	5917.2	5928.8	5487.2	4519.8	3668.8	3352.7	3096.9	2666.8	2392.0	2261.6
52.5°	6442.1	6443.8	6033.6	5042.3	4060.9	3699.4	3380.0	2871.5	2548.8	2401.9
55°	6770.7	6766.5	6416.6	5536.7	4511.6	4063.4	3693.6	3104.3	2740.3	2567.0
57.5°	7009.2	6996.8	6680.7	5961.8	4991.9	4493.4	4048.5	3368.4	2966.4	2763.4
60°	7100.0	7092.6	6859.8	6329.1	5497.1	4968.8	4457.9	3663.9	3223.1	2995.3
62.5°	7134.6	7148.7	7035.6	6684.8	6037.7	5495.4	4907.8	4017.2	3512.0	3257.8
65°	7256.8	7282.4	7259.3	7150.3	6648.5	6112.0	5504.5	4437.3	3827.3	3539.3
67.5°	7498.6	7524.2	7534.1	7707.5	7394.6	6880.4	6249.0	4960.6	4196.3	3831.4
70°	7492.9	7485.4	7660.4	8150.7	8329.0	7944.4	7252.7	5604.4	4636.2	4074.1
72.5°	6820.2	6760.7	7174.3	8145.7	9106.5	9055.3	8478.4	6434.7	5015.9	4103.8
75°	5116.6	4958.1	5688.6	7341.0	9236.1	9685.9	9257.5	6949.8	4925.9	3625.9
77.5°	2188.1	2028.8	2889.7	5434.4	8266.3	9054.5	8542.8	6063.3	3932.1	2397.8
80°	572.8	572.0	873.3	2463.8	5621.7	6686.5	5866.0	3915.6	2246.7	856.8
82.5°	236.9	231.1	321.1	958.3	2746.9	3752.2	3062.2	1746.5	811.4	231.9
85°	88.3	87.5	156.0	331.0	969.0	1547.6	1120.1	446.5	202.2	113.1
87.5°	24.8	23.9	33.8	114.7	236.1	358.2	191.5	73.5	57.0	44.6
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°
1779.5	0°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
1782.8	2.5°	1785.3	1789.4	1796.9	1802.6	1810.1	1818.3	1829.9	1837.3	1844.7	1849.7
1787.0	5°	1792.7	1801.8	1820.8	1839.8	1862.1	1882.7	1906.6	1924.0	1938.0	1942.1
1801.8	7.5°	1809.2	1824.1	1856.3	1888.5	1924.0	1957.8	1992.5	2022.2	2046.1	2055.2
1828.2	10°	1838.1	1857.9	1903.3	1948.7	1995.8	2047.8	2092.4	2135.3	2169.1	2183.1
1859.6	12.5°	1874.5	1899.2	1958.6	2021.4	2086.6	2158.4	2216.2	2269.0	2311.1	2330.1
1903.3	15°	1921.5	1953.7	2029.6	2113.8	2209.6	2309.4	2382.9	2441.5	2488.5	2511.7
1948.7	17.5°	1972.7	2015.6	2111.3	2238.5	2375.5	2506.7	2592.5	2635.5	2684.2	2706.4
1990.8	20°	2022.2	2075.0	2212.0	2396.9	2579.3	2718.8	2788.2	2799.7	2803.0	2805.5
2030.5	22.5°	2073.4	2144.4	2338.3	2596.7	2792.3	2888.9	2898.8	2849.2	2779.9	2747.7
2069.2	25°	2129.5	2223.6	2503.4	2817.0	2975.5	2987.1	2911.1	2790.6	2659.4	2599.1
2100.6	27.5°	2184.0	2315.2	2701.5	3027.5	3107.6	3006.1	2842.6	2671.8	2513.3	2449.8
2122.9	30°	2238.5	2420.0	2920.2	3211.6	3167.8	2959.0	2734.5	2543.8	2384.5	2317.7
2142.7	32.5°	2293.8	2542.2	3172.0	3344.5	3157.1	2859.1	2600.0	2400.2	2259.9	2189.8
2160.0	35°	2356.5	2692.4	3410.5	3417.1	3085.3	2712.2	2422.5	2228.5	2106.4	2050.3
2180.7	37.5°	2438.2	2883.1	3621.0	3435.3	2959.8	2496.8	2202.1	2025.5	1924.8	1899.2
2211.2	40°	2539.7	3112.5	3781.9	3406.4	2774.1	2235.1	1961.1	1820.0	1763.0	1768.8
2252.5	42.5°	2671.8	3369.2	3895.0	3332.1	2515.8	1965.2	1749.8	1687.1	1714.3	1737.4
2314.4	45°	2843.5	3635.8	3965.2	3205.8	2223.6	1736.6	1625.2	1640.0	1660.7	1663.2
2414.3	47.5°	3063.0	3905.7	4011.4	3015.1	1925.6	1575.7	1546.0	1549.3	1545.1	1527.8
2563.7	50°	3337.0	4168.2	4052.7	2762.6	1672.2	1475.0	1435.3	1423.8	1366.8	1310.7
2762.6	52.5°	3649.0	4409.2	4070.0	2448.9	1475.0	1390.8	1326.4	1253.8	1147.3	1130.0
3012.7	55°	3995.7	4632.1	4025.4	2063.5	1309.1	1282.7	1185.3	1097.8	1086.2	1071.4
3342.0	57.5°	4410.0	4872.3	3934.6	1633.4	1139.0	1156.4	1061.4	1071.4	1050.7	1027.6
3765.4	60°	4863.2	5120.7	3775.3	1241.4	963.2	998.7	1029.3	1028.4	1022.7	1003.7
4212.0	62.5°	5270.9	5284.1	3461.7	950.8	808.9	876.6	959.9	959.1	954.1	943.4
4678.3	65°	5513.6	5259.4	2938.4	748.6	681.8	775.9	865.8	872.4	873.3	872.4
5029.1	67.5°	5470.7	4969.7	2220.3	595.9	576.9	673.5	772.6	781.6	788.2	789.9
5073.7	70°	4985.3	4333.3	1447.7	475.4	483.7	583.5	684.2	693.3	699.1	705.7
4402.6	72.5°	3885.9	3186.0	828.7	384.6	402.0	506.0	596.8	607.5	610.8	623.2
3063.8	75°	2368.0	1873.6	447.4	302.9	330.2	432.5	510.1	522.5	528.2	543.1
1504.7	77.5°	1125.8	811.4	255.0	236.1	265.8	353.3	430.9	444.9	429.2	437.5
415.2	80°	380.5	301.3	161.0	179.9	203.0	275.7	345.0	359.0	326.0	324.4
137.8	82.5°	132.9	122.2	102.3	119.7	131.2	197.3	260.8	279.0	242.7	241.8
61.9	85°	52.0	49.5	57.0	65.2	78.4	121.3	171.7	180.8	149.4	120.5
18.2	87.5°	10.7	11.6	14.0	14.9	23.9	42.1	61.9	75.9	60.3	51.2
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>
1779.5
1846.4
1943.8
2056.0
2184.0
2330.1
2510.0
2705.6
2812.1
2756.8
2608.2
2457.2
2325.1
2198.8
2062.6
1917.4
1788.6
1758.9
1679.7
1541.0
1318.1
1135.7
1073.8
1023.5
997.1
939.3
872.4
791.5
709.0
628.1
544.8
430.9
321.1
230.3
118.9
47.0
0.0

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