

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: P940322

Luminaire Tested: **GALN-SB3B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940322
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-SB3B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 15049 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

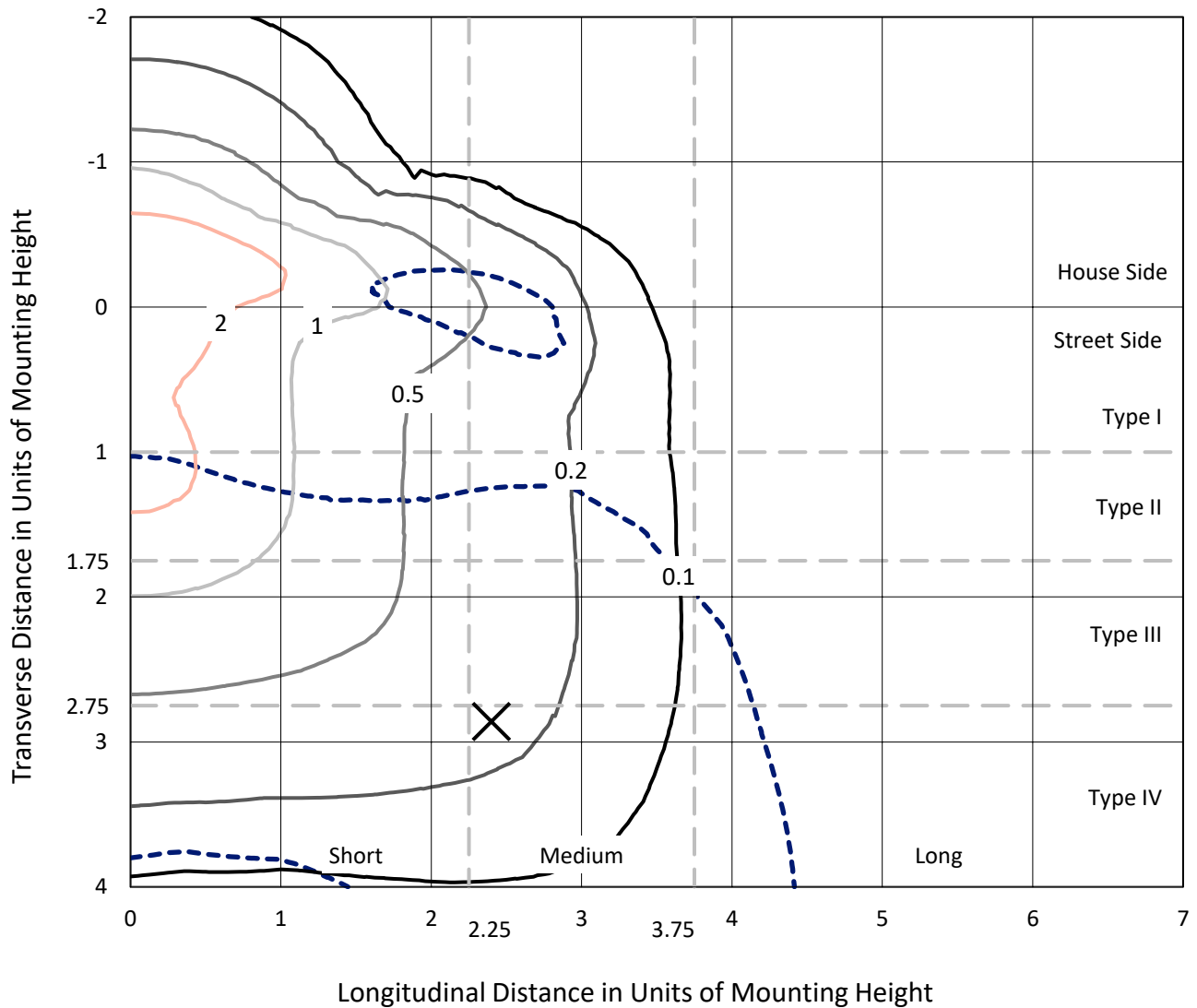
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940322
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Iso-Footcandle Lines of Horizontal Illumination

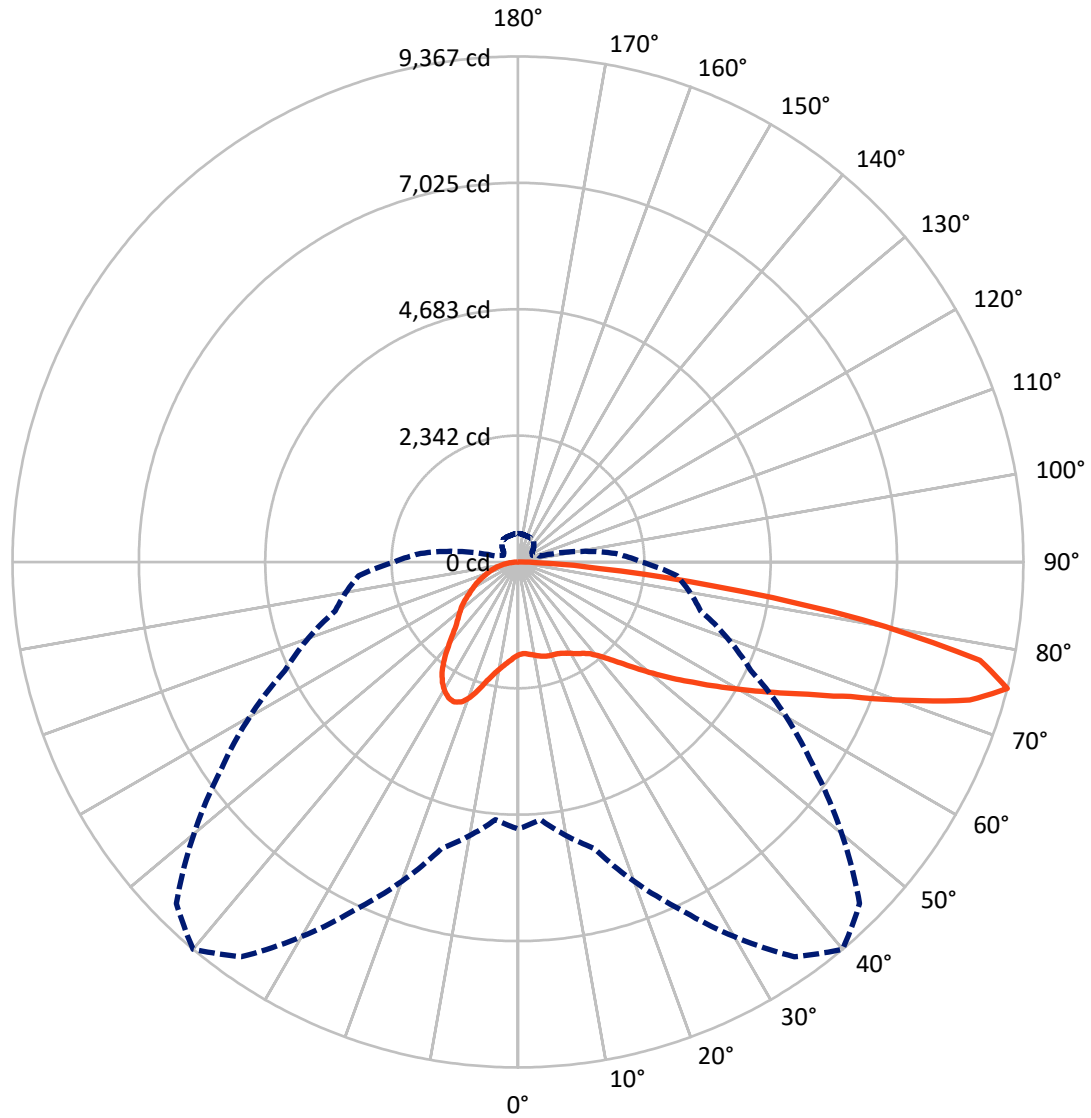
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P940322
CATALOG NUMBER: GALN-SB3B-830-U-SL4

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
House Side	Lumens	4662.7	0.0	4662.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10386.3	0.0	10386.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	15049.0	0.0	15049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	1.1
10°-20°	576.7	3.8
20°-30°	1053.1	7.0
30°-40°	1493.5	9.9
40°-50°	2016.7	13.4
50°-60°	2713.0	18.0
60°-70°	3443.5	22.9
70°-80°	3125.1	20.8
80°-90°	455.6	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°	15049.0	100.0
0°-180°	15049.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940322

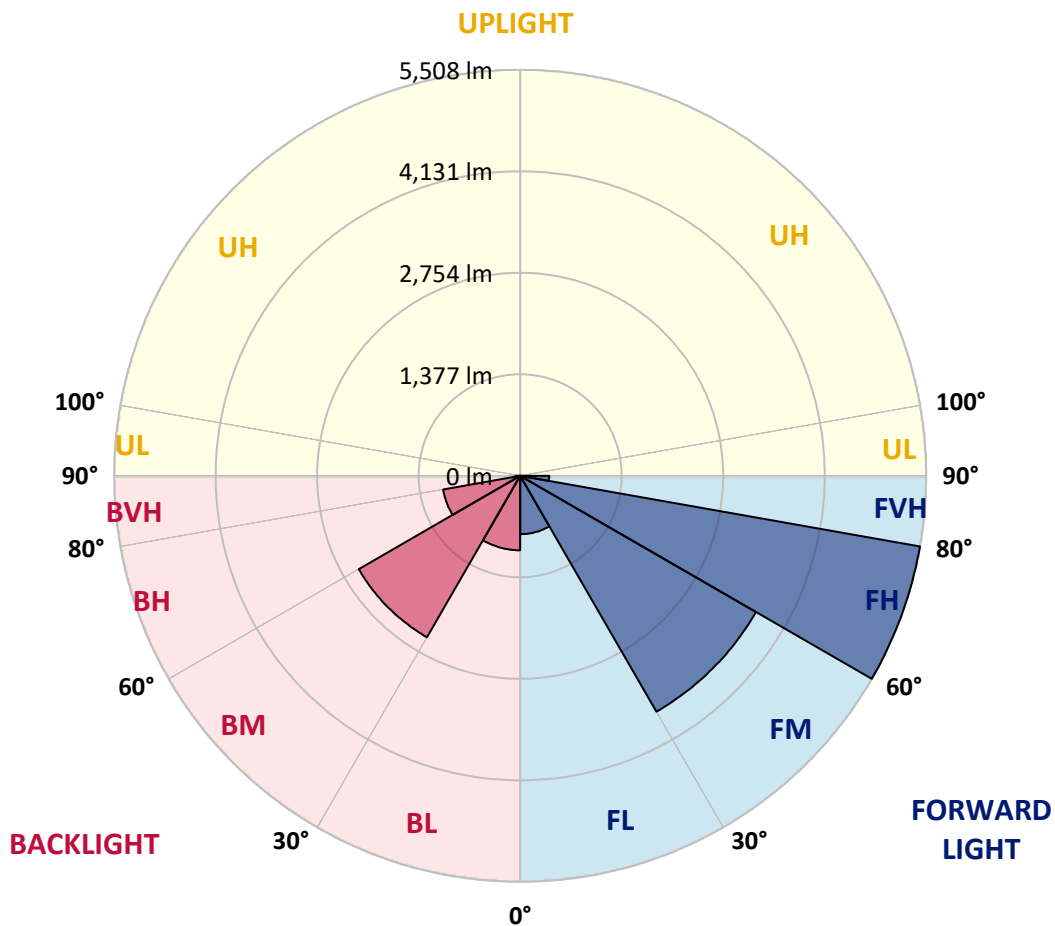
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.6	5.3			
FM (30°-60°)	3694.2	24.5			
FH (60°-80°)	5507.7	36.6			G3/7500
FVH (80°-90°)	392.8	2.6			G3/500
BL (0°-30°)	1010.0	6.7	B3/2500		
BM (30°-60°)	2529.1	16.8	B3/5000		
BH (60°-80°)	1060.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	62.7	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: P940322
 CATALOG NUMBER: GALN-SB3B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9
2.5°	1694.5	1704.1	1701.7	1698.5	1698.5	1699.3	1698.5	1704.1	1709.7	1715.3
5°	1712.1	1721.7	1716.9	1712.9	1709.7	1708.9	1706.5	1705.7	1708.9	1716.1
7.5°	1746.4	1756.0	1748.8	1741.6	1735.2	1732.0	1728.9	1724.1	1721.7	1725.7
10°	1784.7	1794.3	1785.5	1772.8	1762.4	1758.4	1755.2	1750.4	1747.2	1749.6
12.5°	1823.0	1832.6	1820.6	1803.1	1789.5	1787.1	1783.1	1781.5	1780.7	1779.9
15°	1859.0	1866.9	1851.8	1831.0	1816.7	1812.7	1808.7	1811.1	1815.1	1819.8
17.5°	1886.9	1894.9	1872.5	1845.4	1831.8	1830.2	1827.8	1835.8	1847.0	1859.0
20°	1912.4	1920.4	1891.7	1855.0	1839.0	1839.0	1839.8	1856.6	1872.5	1890.1
22.5°	1948.4	1954.7	1919.6	1869.3	1846.2	1847.8	1854.2	1870.9	1890.9	1914.8
25°	2001.8	2006.6	1963.5	1896.5	1870.1	1874.9	1880.5	1888.5	1907.6	1935.6
27.5°	2088.0	2092.0	2035.4	1944.4	1904.5	1912.4	1920.4	1914.8	1923.6	1947.6
30°	2209.4	2211.8	2139.9	2019.4	1962.7	1966.7	1968.3	1945.2	1928.4	1947.6
32.5°	2353.0	2352.2	2266.8	2110.4	2029.0	2025.0	2011.4	1965.9	1926.8	1943.6
35°	2575.7	2566.9	2456.8	2238.1	2104.0	2079.3	2047.3	1989.1	1934.8	1939.6
37.5°	2944.5	2917.3	2764.9	2447.2	2215.7	2152.7	2105.6	2026.6	1952.3	1938.0
40°	3360.3	3326.0	3158.4	2733.8	2383.4	2282.0	2206.2	2080.1	1981.1	1945.2
42.5°	3853.6	3804.9	3624.5	3071.4	2595.7	2448.8	2334.7	2147.9	2023.4	1968.3
45°	4459.4	4394.8	4139.4	3452.1	2863.1	2667.5	2515.1	2250.9	2088.0	2013.0
47.5°	5071.6	5087.6	4724.4	3887.9	3183.9	2937.3	2740.9	2405.7	2182.2	2084.8
50°	5722.1	5733.3	5306.3	4370.8	3547.9	3242.2	2994.8	2578.9	2313.1	2187.0
52.5°	6229.8	6231.4	5834.7	4876.1	3927.0	3577.4	3268.5	2776.9	2464.8	2322.7
55°	6547.5	6543.5	6205.0	5354.2	4362.8	3929.4	3571.8	3001.9	2650.0	2482.3
57.5°	6778.1	6766.2	6460.5	5765.2	4827.4	4345.3	3915.1	3257.4	2868.7	2672.3
60°	6865.9	6858.7	6633.7	6120.4	5315.9	4805.0	4311.0	3543.1	3116.9	2896.6
62.5°	6899.5	6913.0	6803.7	6464.4	5838.7	5314.3	4746.0	3884.7	3396.3	3150.4
65°	7017.6	7042.3	7020.0	6914.6	6429.3	5910.5	5323.1	4291.0	3701.2	3422.6
67.5°	7251.5	7276.2	7285.8	7453.4	7150.9	6653.6	6043.0	4797.1	4057.9	3705.1
70°	7245.9	7238.7	7407.9	7882.0	8054.4	7682.5	7013.6	5419.6	4483.4	3939.8
72.5°	6595.4	6537.9	6937.8	7877.2	8806.3	8756.8	8198.9	6222.6	4850.5	3968.5
75°	4947.9	4794.7	5501.0	7099.0	8931.6	9366.6	8952.4	6720.7	4763.5	3506.4
77.5°	2116.0	1961.9	2794.4	5255.2	7993.8	8756.0	8261.1	5863.4	3802.5	2318.7
80°	553.9	553.1	844.5	2382.6	5436.4	6466.0	5672.7	3786.6	2172.6	828.5
82.5°	229.1	223.5	310.5	926.7	2656.3	3628.5	2961.2	1688.9	784.6	224.3
85°	85.4	84.6	150.9	320.1	937.1	1496.6	1083.1	431.8	195.6	109.4
87.5°	23.9	23.1	32.7	110.9	228.3	346.4	185.2	71.0	55.1	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940322
 CATALOG NUMBER: GALN-SB3B-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1720.9	0°	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9	1720.9
1724.1	2.5°	1726.5	1730.5	1737.6	1743.2	1750.4	1758.4	1769.6	1776.7	1783.9	1788.7
1728.1	5°	1733.6	1742.4	1760.8	1779.1	1800.7	1820.6	1843.8	1860.6	1874.1	1878.1
1742.4	7.5°	1749.6	1764.0	1795.1	1826.2	1860.6	1893.3	1926.8	1955.5	1978.7	1987.5
1768.0	10°	1777.5	1796.7	1840.6	1884.5	1930.0	1980.3	2023.4	2064.9	2097.6	2111.2
1798.3	12.5°	1812.7	1836.6	1894.1	1954.7	2017.8	2087.2	2143.1	2194.2	2234.9	2253.3
1840.6	15°	1858.2	1889.3	1962.7	2044.1	2136.7	2233.3	2304.3	2361.0	2406.5	2428.9
1884.5	17.5°	1907.6	1949.2	2041.7	2164.7	2297.2	2424.1	2507.1	2548.6	2595.7	2617.2
1925.2	20°	1955.5	2006.6	2139.1	2317.9	2494.3	2629.2	2696.2	2707.4	2710.6	2713.0
1963.5	22.5°	2005.0	2073.7	2261.2	2511.1	2700.2	2793.6	2803.2	2755.3	2688.3	2657.1
2001.0	25°	2059.3	2150.3	2420.9	2724.2	2877.4	2888.6	2815.2	2698.6	2571.7	2513.5
2031.4	27.5°	2112.0	2238.9	2612.4	2927.7	3005.1	2907.0	2748.9	2583.7	2430.5	2369.0
2052.9	30°	2164.7	2340.3	2824.0	3105.7	3063.4	2861.5	2644.4	2460.0	2305.9	2241.3
2072.1	32.5°	2218.1	2458.4	3067.4	3234.2	3053.0	2764.9	2514.3	2321.1	2185.4	2117.6
2088.8	35°	2278.8	2603.7	3298.1	3304.5	2983.6	2622.8	2342.7	2155.1	2037.0	1982.7
2108.8	37.5°	2357.8	2788.0	3501.6	3322.0	2862.3	2414.5	2129.5	1958.7	1861.4	1836.6
2138.3	40°	2456.0	3009.9	3657.3	3294.1	2682.7	2161.5	1896.5	1760.0	1704.9	1710.5
2178.2	42.5°	2583.7	3258.2	3766.6	3222.2	2432.8	1900.5	1692.1	1631.5	1657.8	1680.2
2238.1	45°	2749.7	3516.0	3834.5	3100.1	2150.3	1679.4	1571.6	1586.0	1605.9	1608.3
2334.7	47.5°	2962.0	3777.0	3879.1	2915.7	1862.2	1523.7	1495.0	1498.2	1494.2	1477.4
2479.1	50°	3227.0	4030.8	3919.1	2671.5	1617.1	1426.3	1388.0	1376.9	1321.8	1267.5
2671.5	52.5°	3528.7	4263.9	3935.8	2368.2	1426.3	1344.9	1282.7	1212.4	1109.5	1092.7
2913.4	55°	3864.0	4479.4	3892.7	1995.4	1265.9	1240.4	1146.2	1061.6	1050.4	1036.0
3231.8	57.5°	4264.7	4711.6	3804.9	1579.6	1101.5	1118.2	1026.5	1036.0	1016.1	993.7
3641.3	60°	4702.9	4951.9	3650.9	1200.5	931.5	965.8	995.3	994.5	988.9	970.6
4073.1	62.5°	5097.2	5109.9	3347.6	919.5	782.2	847.7	928.3	927.5	922.7	912.3
4524.1	65°	5331.8	5086.0	2841.5	723.9	659.3	750.3	837.3	843.7	844.5	843.7
4863.3	67.5°	5290.3	4805.8	2147.1	576.3	557.9	651.3	747.1	755.9	762.3	763.9
4906.4	70°	4821.0	4190.4	1400.0	459.8	467.7	564.3	661.7	670.5	676.1	682.4
4257.5	72.5°	3757.8	3081.0	801.4	372.0	388.7	489.3	577.1	587.5	590.7	602.6
2962.8	75°	2290.0	1811.9	432.6	292.9	319.3	418.2	493.3	505.2	510.8	525.2
1455.1	77.5°	1088.7	784.6	246.6	228.3	257.0	341.6	416.6	430.2	415.1	423.0
401.5	80°	368.0	291.3	155.6	174.0	196.4	266.6	333.6	347.2	315.3	313.7
133.3	82.5°	128.5	118.1	99.0	115.7	126.9	190.8	252.2	269.8	234.7	233.9
59.9	85°	50.3	47.9	55.1	63.1	75.8	117.3	166.0	174.8	144.5	116.5
17.6	87.5°	10.4	11.2	13.6	14.4	23.1	40.7	59.9	73.4	58.3	49.5
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>
1720.9
1785.5
1879.7
1988.3
2112.0
2253.3
2427.3
2616.4
2719.4
2665.9
2522.2
2376.2
2248.5
2126.3
1994.6
1854.2
1729.7
1700.9
1624.3
1490.2
1274.7
1098.3
1038.4
989.7
964.2
908.3
843.7
765.5
685.6
607.4
526.8
416.6
310.5
222.7
114.9
45.5
0.0

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