

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: P941592

Luminaire Tested: **GALN-SB5A-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941592  
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-SB5A-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

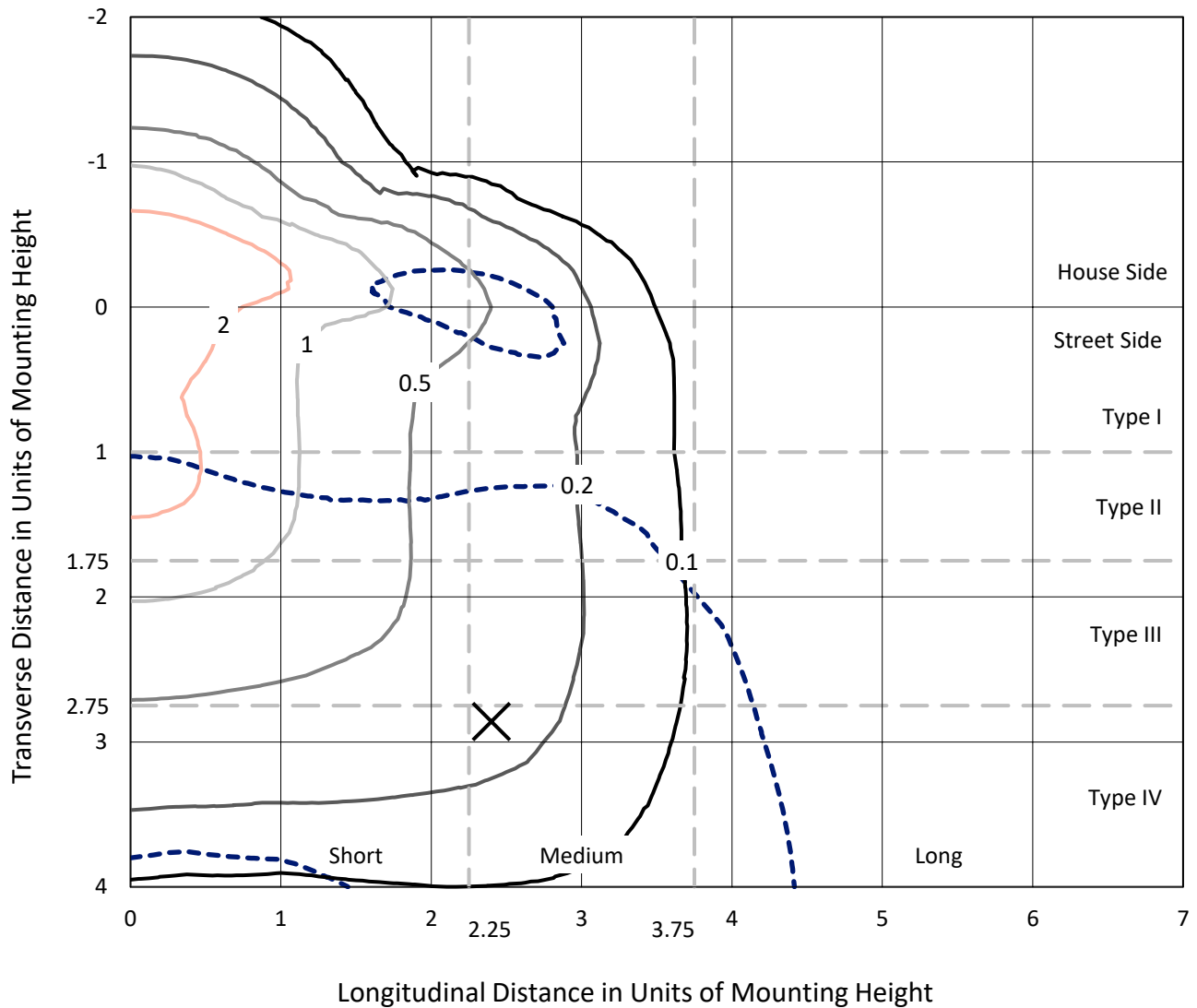
Lumens per Lamp: N/A  
Luminaire Lumens: 15625 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

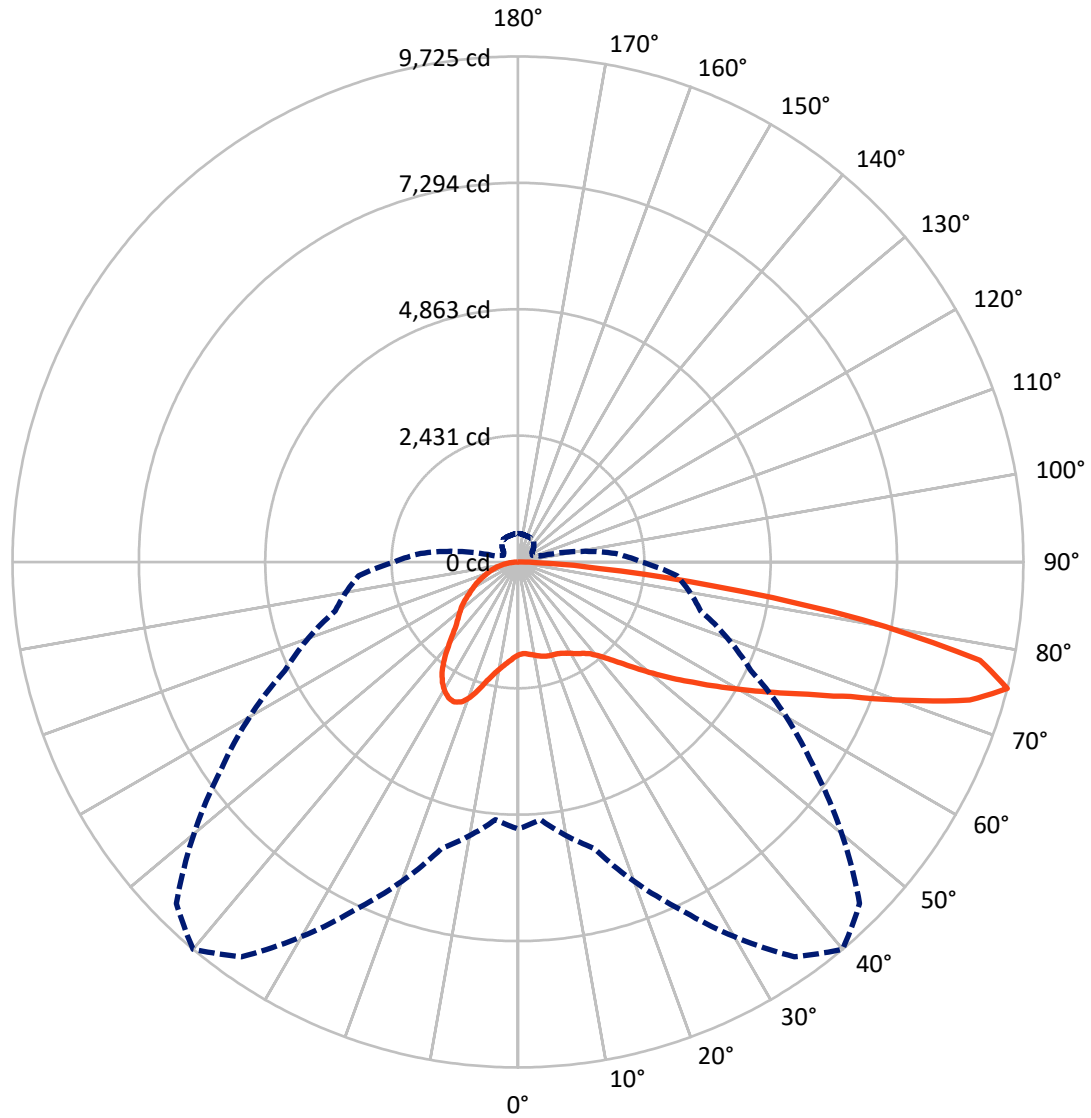
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4841.1	0.0	4841.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	10783.9	0.0	10783.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	15625.0	0.0	15625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	1.1
10°-20°	598.8	3.8
20°-30°	1093.4	7.0
30°-40°	1550.7	9.9
40°-50°	2093.9	13.4
50°-60°	2816.9	18.0
60°-70°	3575.3	22.9
70°-80°	3244.8	20.8
80°-90°	473.0	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°	15625.0	100.0
0°-180°	15625.0	100.0

**Coefficient of Utilization**



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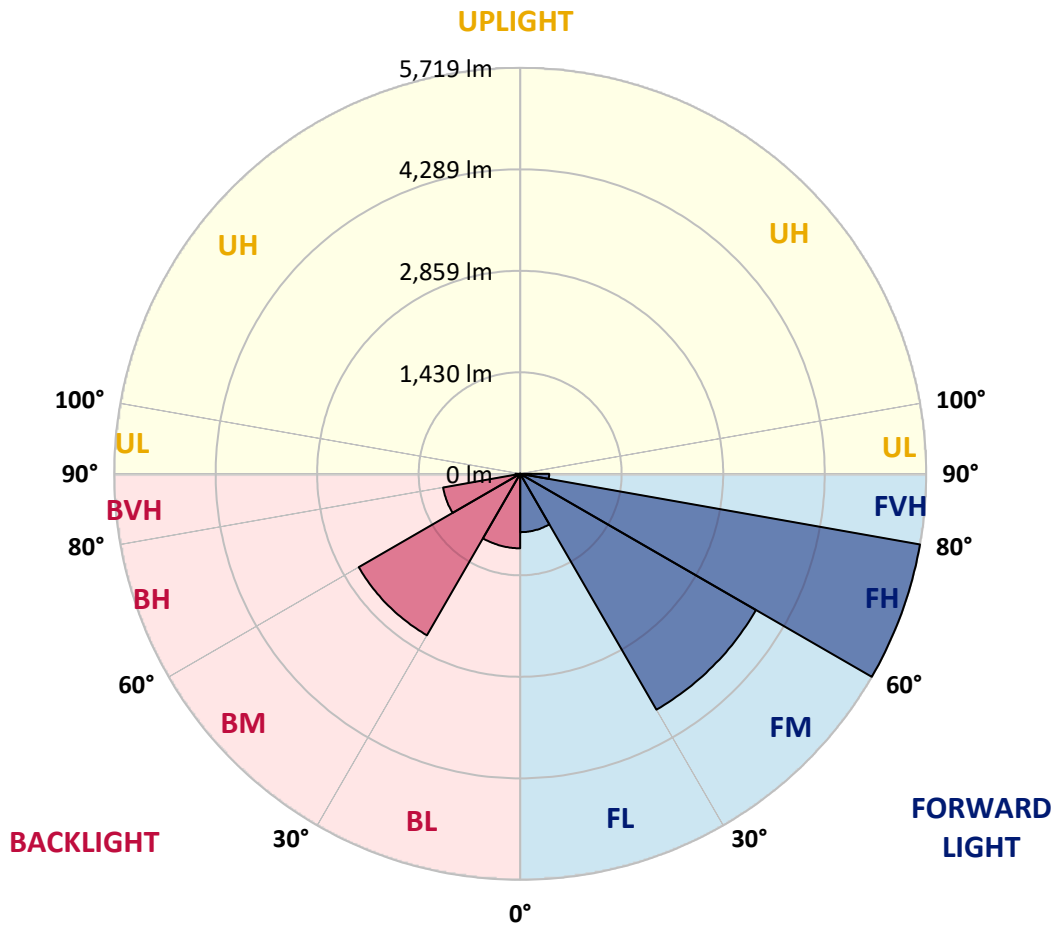
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.9	5.3			
FM (30°-60°)	3835.6	24.5			
FH (60°-80°)	5718.5	36.6			G3/7500
FVH (80°-90°)	407.9	2.6			G3/500
BL (0°-30°)	1048.6	6.7	B3/2500		
BM (30°-60°)	2625.9	16.8	B3/5000		
BH (60°-80°)	1101.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.1	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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1759.4	1769.3	1766.9	1763.5	1763.5	1764.4	1763.5	1769.3	1775.1	1780.9
5°	1777.6	1787.6	1782.6	1778.5	1775.1	1774.3	1771.8	1771.0	1774.3	1781.8
7.5°	1813.3	1823.2	1815.7	1808.3	1801.7	1798.3	1795.0	1790.1	1787.6	1791.7
10°	1853.0	1863.0	1853.9	1840.6	1829.8	1825.7	1822.4	1817.4	1814.1	1816.6
12.5°	1892.8	1902.8	1890.3	1872.1	1858.0	1855.5	1851.4	1849.7	1848.9	1848.1
15°	1930.1	1938.4	1922.7	1901.1	1886.2	1882.0	1877.9	1880.4	1884.5	1889.5
17.5°	1959.1	1967.4	1944.2	1916.0	1901.9	1900.3	1897.8	1906.1	1917.7	1930.1
20°	1985.6	1993.9	1964.1	1926.0	1909.4	1909.4	1910.2	1927.6	1944.2	1962.4
22.5°	2022.9	2029.6	1993.1	1940.9	1916.9	1918.5	1925.1	1942.5	1963.3	1988.1
25°	2078.5	2083.4	2038.7	1969.1	1941.7	1946.7	1952.5	1960.8	1980.7	2009.7
27.5°	2168.0	2172.1	2113.3	2018.8	1977.3	1985.6	1993.9	1988.1	1997.2	2022.1
30°	2293.9	2296.4	2221.8	2096.7	2037.8	2042.0	2043.6	2019.6	2002.2	2022.1
32.5°	2443.1	2442.3	2353.6	2191.2	2106.6	2102.5	2088.4	2041.2	2000.6	2018.0
35°	2674.3	2665.2	2550.8	2323.8	2184.5	2158.8	2125.7	2065.2	2008.8	2013.8
37.5°	3057.2	3029.0	2870.7	2540.9	2300.6	2235.1	2186.2	2104.1	2027.1	2012.2
40°	3488.9	3453.3	3279.3	2838.4	2474.6	2369.3	2290.6	2159.7	2056.9	2019.6
42.5°	4001.1	3950.6	3763.3	3188.9	2695.0	2542.5	2424.0	2230.1	2100.8	2043.6
45°	4630.1	4563.0	4297.8	3584.3	2972.7	2769.6	2611.3	2337.0	2168.0	2090.1
47.5°	5265.7	5282.3	4905.2	4036.7	3305.8	3049.7	2845.9	2497.8	2265.7	2164.6
50°	5941.2	5952.8	5509.4	4538.1	3683.7	3366.3	3109.4	2677.6	2401.7	2270.7
52.5°	6468.2	6469.9	6058.0	5062.7	4077.3	3714.4	3393.6	2883.1	2559.1	2411.6
55°	6798.1	6793.9	6442.5	5559.1	4529.8	4079.8	3708.6	3116.8	2751.4	2577.3
57.5°	7037.6	7025.1	6707.7	5985.9	5012.2	4511.6	4064.9	3382.0	2978.5	2774.6
60°	7128.7	7121.3	6887.6	6354.7	5519.3	4988.9	4476.0	3678.7	3236.2	3007.5
62.5°	7163.5	7177.6	7064.1	6711.9	6062.2	5517.7	4927.6	4033.4	3526.2	3271.0
65°	7286.2	7311.9	7288.7	7179.3	6675.4	6136.7	5526.8	4455.2	3842.8	3553.6
67.5°	7529.0	7554.7	7564.6	7738.7	7424.6	6908.3	6274.3	4980.7	4213.3	3847.0
70°	7523.2	7515.7	7691.4	8183.7	8362.7	7976.5	7282.0	5627.1	4655.0	4090.6
72.5°	6847.8	6788.1	7203.3	8178.7	9143.4	9092.0	8512.7	6460.8	5036.2	4120.4
75°	5137.3	4978.2	5711.6	7370.7	9273.5	9725.1	9295.0	6977.9	4945.9	3640.6
77.5°	2197.0	2037.0	2901.4	5456.4	8299.7	9091.2	8577.3	6087.8	3948.1	2407.5
80°	575.1	574.3	876.8	2473.8	5644.5	6713.5	5889.8	3931.5	2255.8	860.2
82.5°	237.8	232.0	322.4	962.2	2758.0	3767.4	3074.6	1753.6	814.6	232.9
85°	88.7	87.8	156.6	332.3	972.9	1553.9	1124.6	448.3	203.0	113.5
87.5°	24.9	24.0	34.0	115.2	237.0	359.7	192.3	73.8	57.2	44.8
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°
1786.7	0°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
1790.1	2.5°	1792.5	1796.7	1804.1	1809.9	1817.4	1825.7	1837.3	1844.8	1852.2	1857.2
1794.2	5°	1800.0	1809.1	1828.2	1847.2	1869.6	1890.3	1914.4	1931.8	1945.9	1950.0
1809.1	7.5°	1816.6	1831.5	1863.8	1896.1	1931.8	1965.7	2000.6	2030.4	2054.4	2063.5
1835.6	10°	1845.6	1865.5	1911.0	1956.6	2003.9	2056.1	2100.8	2143.9	2177.9	2192.0
1867.1	12.5°	1882.0	1906.9	1966.6	2029.6	2095.0	2167.1	2225.1	2278.2	2320.4	2339.5
1911.0	15°	1929.3	1961.6	2037.8	2122.4	2218.5	2318.8	2392.5	2451.4	2498.6	2521.8
1956.6	17.5°	1980.7	2023.8	2119.9	2247.5	2385.1	2516.8	2603.0	2646.1	2695.0	2717.4
1998.9	20°	2030.4	2083.4	2221.0	2406.6	2589.8	2729.8	2799.4	2811.0	2814.4	2816.8
2038.7	22.5°	2081.8	2153.0	2347.8	2607.2	2803.6	2900.6	2910.5	2860.8	2791.2	2758.8
2077.6	25°	2138.1	2232.6	2513.5	2828.5	2987.6	2999.2	2922.9	2801.9	2670.2	2609.7
2109.1	27.5°	2192.8	2324.6	2712.4	3039.8	3120.2	3018.2	2854.1	2682.6	2523.5	2459.7
2131.5	30°	2247.5	2429.8	2932.0	3224.6	3180.7	2971.0	2745.6	2554.1	2394.2	2327.1
2151.4	32.5°	2303.0	2552.5	3184.8	3358.0	3169.9	2870.7	2610.5	2409.9	2269.1	2198.6
2168.8	35°	2366.0	2703.3	3424.3	3430.9	3097.8	2723.2	2432.3	2237.6	2114.9	2058.6
2189.5	37.5°	2448.1	2894.8	3635.6	3449.2	2971.8	2506.9	2211.0	2033.7	1932.6	1906.9
2220.2	40°	2550.0	3125.1	3797.2	3420.2	2785.4	2244.2	1969.1	1827.3	1770.2	1776.0
2261.6	42.5°	2682.6	3382.9	3910.8	3345.6	2526.0	1973.2	1756.9	1693.9	1721.3	1744.5
2323.8	45°	2855.0	3650.6	3981.2	3218.8	2232.6	1743.6	1631.8	1646.7	1667.4	1669.9
2424.0	47.5°	3075.4	3921.5	4027.6	3027.3	1933.4	1582.0	1552.2	1555.5	1551.4	1534.0
2574.0	50°	3350.6	4185.1	4069.1	2773.8	1679.0	1480.9	1441.2	1429.6	1372.4	1316.0
2773.8	52.5°	3663.8	4427.1	4086.5	2458.8	1480.9	1396.4	1331.8	1258.8	1151.9	1134.5
3024.9	55°	4011.9	4650.8	4041.7	2071.8	1314.4	1287.8	1190.1	1102.2	1090.6	1075.7
3355.5	57.5°	4427.9	4892.0	3950.6	1640.1	1143.6	1161.0	1065.7	1075.7	1055.0	1031.8
3780.7	60°	4882.9	5141.4	3790.6	1246.4	967.1	1002.8	1033.4	1032.6	1026.8	1007.7
4229.0	62.5°	5292.3	5305.5	3475.7	954.7	812.2	880.1	963.8	963.0	958.0	947.2
4697.2	65°	5535.9	5280.7	2950.3	751.7	684.5	779.0	869.3	876.0	876.8	876.0
5049.4	67.5°	5492.8	4989.8	2229.3	598.3	579.3	676.2	775.7	784.8	791.4	793.1
5094.2	70°	5005.5	4350.8	1453.6	477.3	485.6	585.9	687.0	696.1	701.9	708.6
4420.4	72.5°	3901.7	3198.9	832.0	386.2	403.6	508.0	599.2	609.9	613.3	625.7
3076.2	75°	2377.6	1881.2	449.2	304.1	331.5	434.3	512.2	524.6	530.4	545.3
1510.8	77.5°	1130.4	814.6	256.1	237.0	266.9	354.7	432.6	446.7	430.9	439.2
416.9	80°	382.0	302.5	161.6	180.7	203.9	276.8	346.4	360.5	327.3	325.7
138.4	82.5°	133.4	122.7	102.8	120.2	131.8	198.1	261.9	280.1	243.6	242.8
62.2	85°	52.2	49.7	57.2	65.5	78.7	121.8	172.4	181.5	150.0	121.0
18.2	87.5°	10.8	11.6	14.1	14.9	24.0	42.3	62.2	76.2	60.5	51.4
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>
1786.7
1853.9
1951.7
2064.4
2192.8
2339.5
2520.2
2716.6
2823.5
2768.0
2618.8
2467.1
2334.5
2207.7
2071.0
1925.1
1795.9
1766.0
1686.5
1547.2
1323.5
1140.3
1078.2
1027.6
1001.1
943.1
876.0
794.8
711.9
630.7
547.0
432.6
322.4
231.2
119.3
47.2
0.0

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