

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: P946348

Luminaire Tested: **GALN-SB2A-740-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

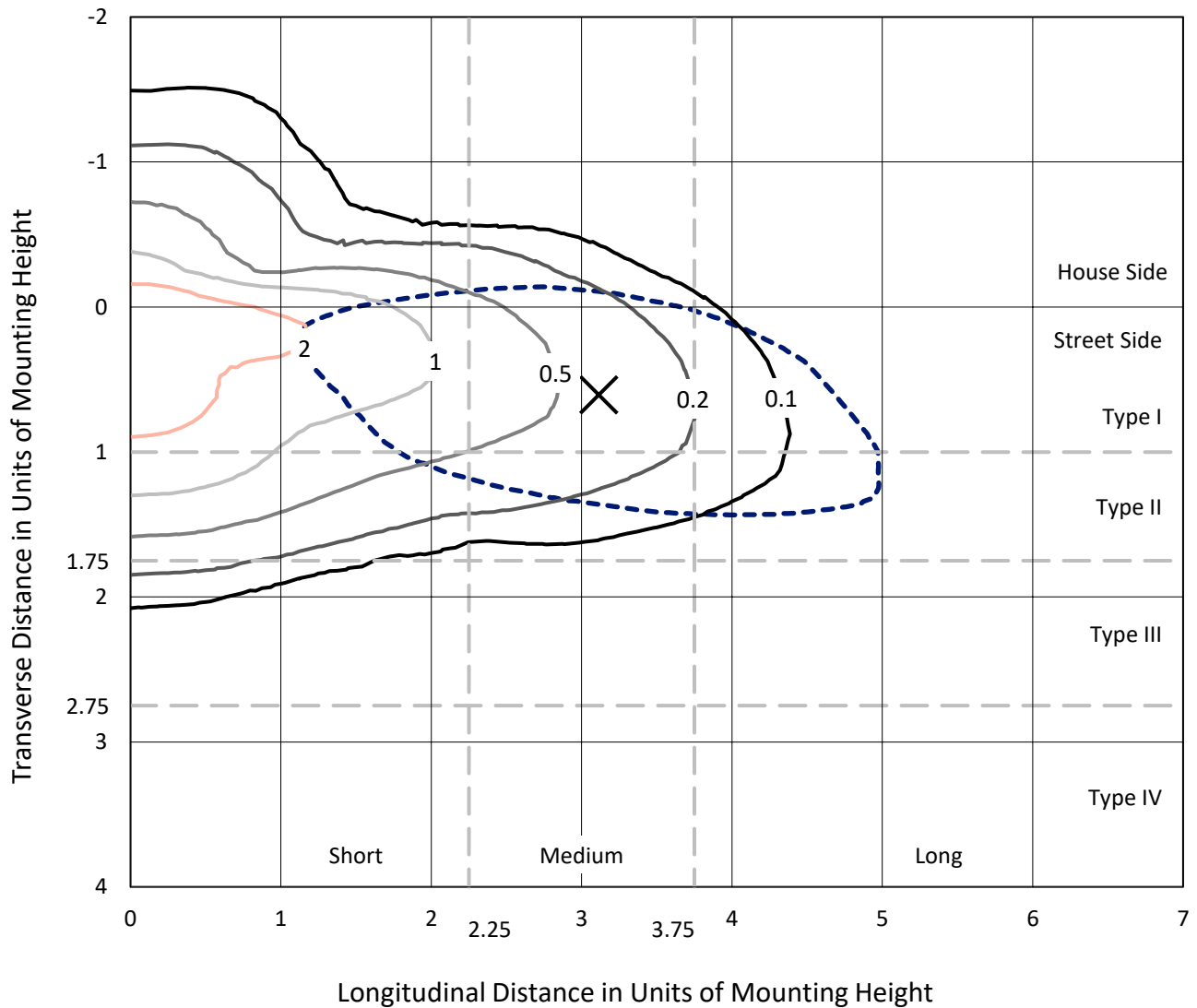
Lumens per Lamp: N/A  
Luminaire Lumens: 9433 lumens  
Efficiency: N/A  
Efficacy: 164.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

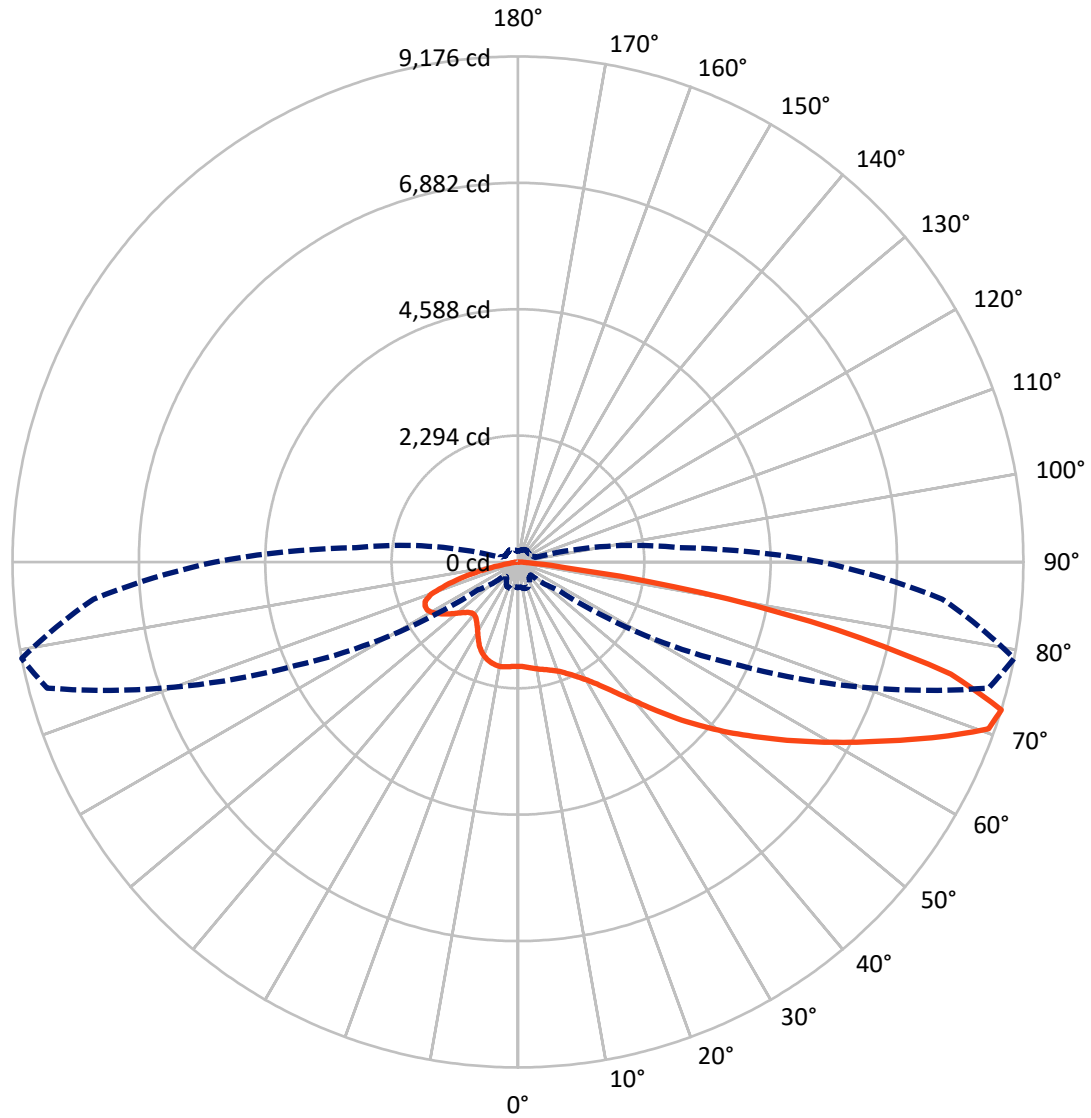
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2075.8	0.0	2075.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	7357.2	0.0	7357.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	9433.0	0.0	9433.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	1.8
10°-20°	449.4	4.8
20°-30°	725.1	7.7
30°-40°	1088.3	11.5
40°-50°	1543.8	16.4
50°-60°	1949.7	20.7
60°-70°	1980.1	21.0
70°-80°	1349.6	14.3
80°-90°	175.1	1.9
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°	9433.0	100.0
0°-180°	9433.0	100.0



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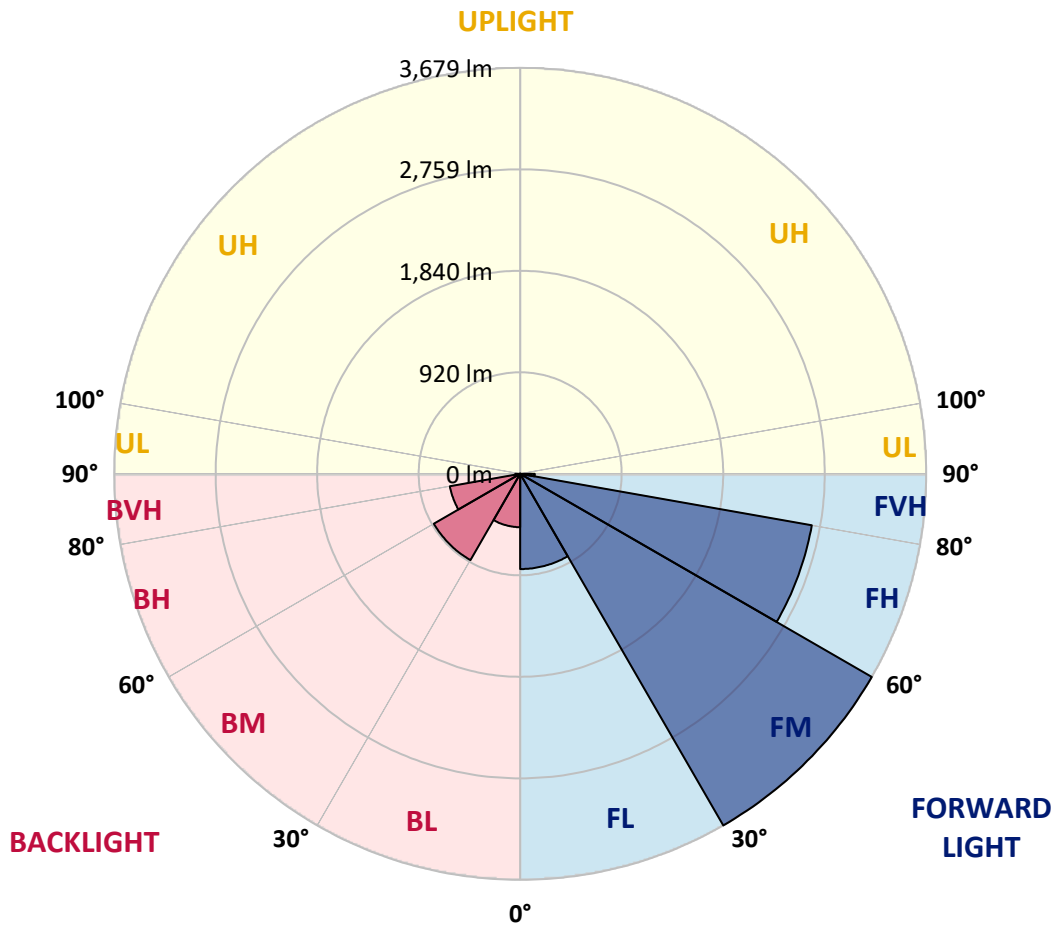
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.9	9.1			
FM (30°-60°)	3679.1	39.0			
FH (60°-80°)	2683.4	28.4			G2/5000
FVH (80°-90°)	131.9	1.4			G2/225
BL (0°-30°)	483.5	5.1	B1/500		
BM (30°-60°)	902.7	9.6	B1/1000		
BH (60°-80°)	646.3	6.9	B2/1000		G2/1000
BVH (80°-90°)	43.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
2.5°	1894.6	1885.6	1891.1	1889.1	1891.6	1894.6	1895.6	1897.1	1902.1	1901.6
5°	1890.6	1881.6	1889.1	1886.6	1893.1	1900.1	1906.1	1911.5	1919.5	1923.0
7.5°	1882.1	1876.1	1883.6	1891.1	1903.1	1913.5	1922.0	1934.5	1946.0	1948.0
10°	1832.7	1828.2	1845.7	1865.1	1898.1	1926.5	1945.0	1959.4	1971.9	1973.9
12.5°	1781.3	1775.8	1795.3	1821.7	1875.1	1926.5	1965.4	1984.4	1995.4	2001.9
15°	1772.8	1768.3	1779.3	1802.3	1846.7	1913.0	1979.4	2014.3	2023.8	2031.3
17.5°	1813.8	1805.3	1809.8	1817.7	1843.7	1900.6	1990.4	2048.3	2062.7	2070.7
20°	1908.6	1896.6	1889.6	1873.6	1869.1	1902.6	1989.4	2089.2	2108.1	2118.1
22.5°	2034.8	2026.8	2011.8	1971.4	1927.5	1927.0	2008.3	2141.6	2177.0	2186.5
25°	2187.5	2175.5	2156.5	2101.7	2017.3	1975.4	2040.3	2208.4	2267.8	2270.3
27.5°	2363.1	2345.2	2319.2	2246.9	2133.1	2051.3	2089.2	2285.3	2372.1	2371.1
30°	2548.2	2530.3	2502.8	2415.0	2271.8	2153.5	2157.0	2368.1	2495.8	2490.4
32.5°	2683.5	2670.0	2664.5	2596.6	2431.5	2274.3	2234.9	2459.9	2648.5	2643.5
35°	2787.2	2769.8	2776.3	2741.8	2605.6	2409.5	2330.2	2569.2	2834.1	2833.6
37.5°	2890.0	2874.6	2880.0	2857.1	2766.8	2581.2	2446.4	2702.9	3064.2	3075.1
40°	2983.8	2967.4	2989.3	2967.9	2892.0	2763.8	2578.7	2854.1	3330.6	3351.6
42.5°	3040.2	3027.2	3063.7	3064.2	3000.8	2918.0	2723.9	3020.8	3639.0	3685.9
45°	3059.7	3055.2	3110.1	3121.5	3097.1	3007.3	2854.6	3202.4	3971.3	4055.1
47.5°	3038.7	3030.2	3106.1	3148.5	3168.0	3049.2	2962.9	3399.0	4310.6	4433.3
50°	2932.9	2916.5	3029.2	3118.6	3187.9	3076.6	3072.1	3626.0	4696.3	4830.5
52.5°	2742.8	2730.4	2858.6	3013.8	3144.0	3090.1	3194.9	3874.0	5062.5	5236.2
55°	2499.8	2483.4	2624.6	2827.2	3034.7	3085.6	3317.6	4151.4	5494.6	5670.8
57.5°	2114.6	2081.7	2260.3	2499.8	2856.6	3080.1	3445.4	4427.3	5933.7	6144.8
60°	1552.8	1503.9	1722.9	2006.9	2508.3	3026.7	3603.5	4736.7	6460.6	6650.7
62.5°	904.1	875.7	1018.9	1283.8	1890.6	2712.4	3692.4	5096.5	6978.6	7178.2
65°	702.0	694.1	706.5	727.0	1052.3	2030.8	3418.4	5447.2	7637.2	7776.9
67.5°	642.2	636.2	641.7	603.3	533.9	1131.2	2704.4	5536.1	8342.8	8427.6
70°	570.8	563.8	581.8	548.9	420.1	514.4	1747.4	5213.7	8904.1	9063.3
72.5°	465.0	457.1	499.0	484.0	353.8	330.3	877.7	4447.8	8845.2	9175.5
75°	357.3	352.8	402.7	415.1	288.4	260.0	421.1	3306.2	7783.9	8116.7
77.5°	277.4	273.9	299.4	344.8	232.5	201.6	259.0	2097.2	5865.9	5924.3
80°	208.1	198.1	221.5	266.9	181.1	147.2	175.6	1223.0	3707.8	3361.1
82.5°	130.2	125.2	144.7	178.1	127.7	101.3	114.3	675.6	1485.9	875.2
85°	74.3	72.4	78.8	101.8	69.4	58.4	65.4	298.4	271.4	186.6
87.5°	29.9	28.9	35.9	45.4	25.4	21.5	23.0	71.9	59.9	55.4
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°
1893.6	0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
1901.1	2.5°	1899.1	1899.1	1892.1	1881.1	1868.6	1860.7	1847.7	1844.2	1830.7	1826.7
1918.0	5°	1922.0	1918.0	1896.6	1865.6	1823.2	1784.3	1741.4	1714.5	1676.5	1663.1
1951.5	7.5°	1951.0	1940.0	1903.1	1835.2	1746.4	1659.1	1568.3	1499.4	1433.5	1410.1
1978.9	10°	1977.4	1961.9	1899.1	1780.3	1626.6	1475.4	1330.7	1229.5	1152.6	1121.2
2009.3	12.5°	2003.9	1975.4	1872.6	1689.0	1456.5	1251.4	1097.2	1018.4	971.0	933.1
2034.3	15°	2028.8	1988.9	1831.7	1566.8	1269.9	1061.8	948.0	885.2	847.2	822.3
2070.7	17.5°	2057.7	2000.4	1770.3	1411.6	1092.2	930.6	837.8	799.8	792.4	789.4
2120.6	20°	2098.2	2010.8	1689.5	1237.9	961.5	825.8	777.9	774.4	773.9	772.4
2180.5	22.5°	2141.6	2023.3	1582.7	1080.3	850.2	760.4	751.9	745.0	740.5	740.0
2252.8	25°	2193.0	2027.3	1449.0	951.0	755.4	729.5	719.5	709.0	706.0	706.0
2335.2	27.5°	2242.9	2013.8	1293.3	838.8	702.0	701.1	688.1	684.6	684.1	685.6
2429.0	30°	2292.8	1988.4	1138.6	735.0	671.1	671.1	666.6	669.1	671.1	676.1
2557.7	32.5°	2360.1	1961.4	1009.4	658.1	644.2	639.2	643.7	648.7	650.7	657.1
2726.9	35°	2458.9	1942.5	906.6	616.2	616.2	609.7	612.2	611.2	606.7	603.8
2931.4	37.5°	2589.6	1941.5	821.8	596.8	592.8	591.8	592.3	585.8	568.3	547.4
3178.9	40°	2746.8	1968.4	756.4	583.3	580.3	586.3	583.3	565.8	517.9	481.5
3483.3	42.5°	2957.9	2045.3	714.5	566.8	575.8	583.3	571.3	510.9	478.5	454.1
3830.1	45°	3206.4	2170.0	693.1	549.4	567.3	576.3	518.4	492.0	466.0	436.6
4208.3	47.5°	3487.8	2327.2	688.1	532.9	548.4	553.9	496.0	484.0	454.6	422.6
4588.5	50°	3794.2	2513.3	701.5	513.4	520.9	502.0	488.5	477.5	447.1	415.6
4978.2	52.5°	4111.0	2718.4	728.5	487.0	493.5	472.5	485.5	476.0	442.6	400.2
5380.9	55°	4422.4	2925.0	754.4	456.1	465.5	446.1	477.0	470.0	422.1	374.2
5810.5	57.5°	4738.7	3130.5	779.9	428.6	438.6	420.6	463.5	454.1	399.2	350.3
6279.5	60°	5067.5	3330.1	791.9	402.2	409.2	397.2	443.1	426.6	373.2	325.8
6740.6	62.5°	5375.4	3496.3	772.4	375.7	380.2	375.2	416.1	394.2	347.3	298.4
7221.1	65°	5684.2	3595.1	712.5	349.8	350.8	348.3	378.2	359.3	316.8	274.4
7641.7	67.5°	5964.2	3650.5	617.2	321.8	319.3	318.3	342.8	321.3	287.4	250.5
7961.5	70°	6023.5	3509.7	471.5	288.9	288.9	286.4	303.9	281.9	255.0	225.0
7732.5	72.5°	5501.6	2952.4	334.8	251.5	255.5	250.5	265.0	246.5	222.0	202.1
6664.2	75°	4436.3	2165.0	243.5	213.1	220.0	211.6	225.0	212.1	191.1	190.6
4592.5	77.5°	3048.2	1338.7	176.6	175.6	180.6	169.6	185.1	178.1	159.2	150.7
1998.9	80°	1300.8	533.9	128.7	135.7	135.7	125.7	143.7	145.7	129.2	125.2
385.7	82.5°	259.0	151.7	90.3	93.3	87.8	84.8	101.8	112.8	155.7	173.1
116.3	85°	77.8	55.9	54.4	50.9	44.9	45.4	59.9	113.3	139.7	79.8
38.4	87.5°	21.5	14.0	14.5	11.5	9.5	12.5	20.5	85.8	46.9	20.0
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>
1893.6
1833.2
1673.0
1413.1
1128.2
945.5
826.8
791.4
777.4
745.5
709.0
689.6
679.6
662.6
610.7
547.9
480.5
453.1
434.6
420.1
412.1
397.2
371.7
349.3
324.3
297.9
271.4
247.5
224.0
196.1
171.6
141.2
125.2
173.6
68.9
17.0
0.0

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