

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: P940185

Luminaire Tested: **GALN-SB3A-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12756 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

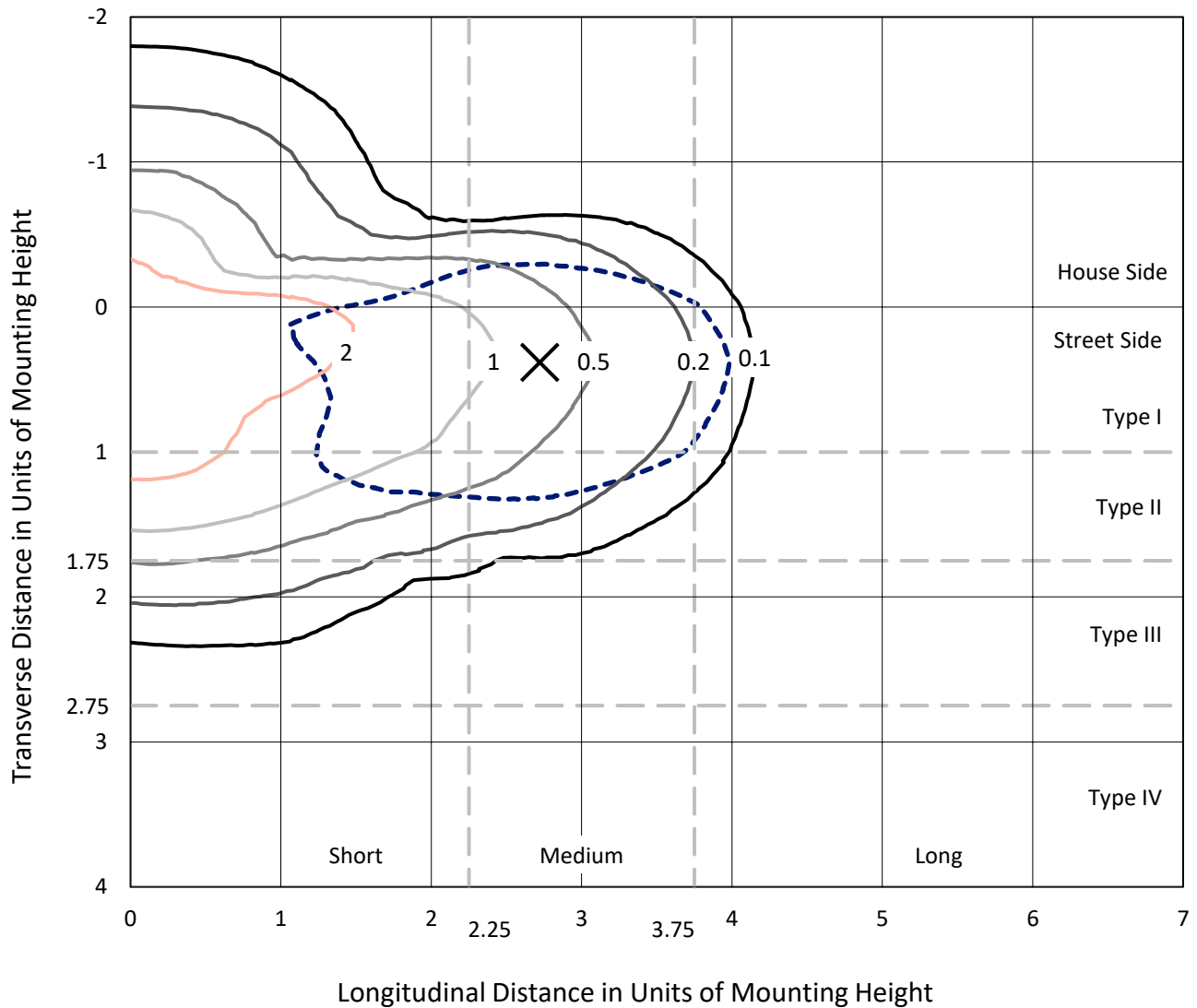
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

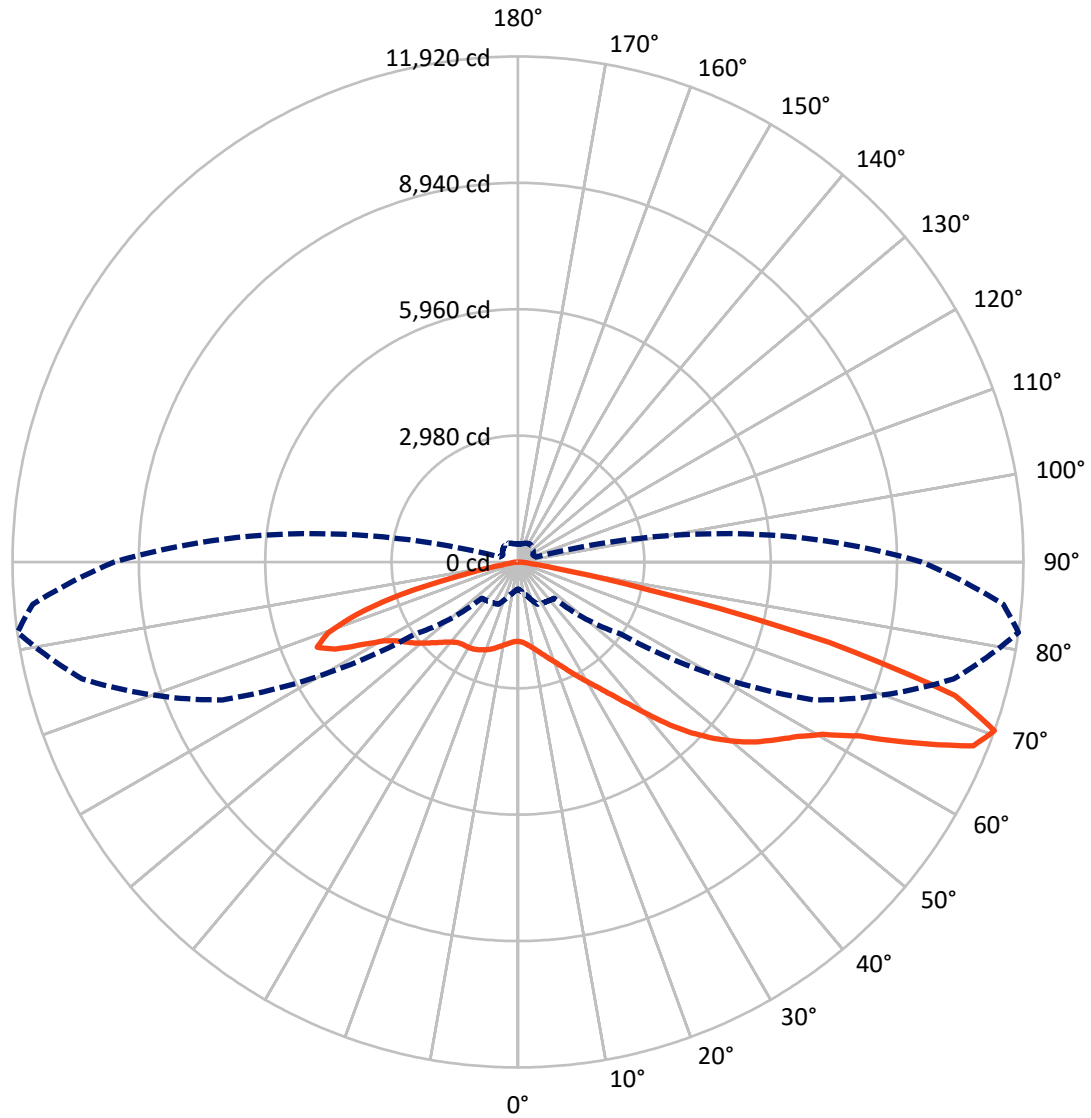
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3144.7	0.0	3144.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	9611.3	0.0	9611.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	12756.0	0.0	12756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	1.4
10°-20°	507.3	4.0
20°-30°	848.7	6.7
30°-40°	1325.9	10.4
40°-50°	2111.6	16.6
50°-60°	2938.6	23.0
60°-70°	3073.9	24.1
70°-80°	1606.6	12.6
80°-90°	166.8	1.3
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°	12756.0	100.0
0°-180°	12756.0	100.0

**Coefficient of Utilization**



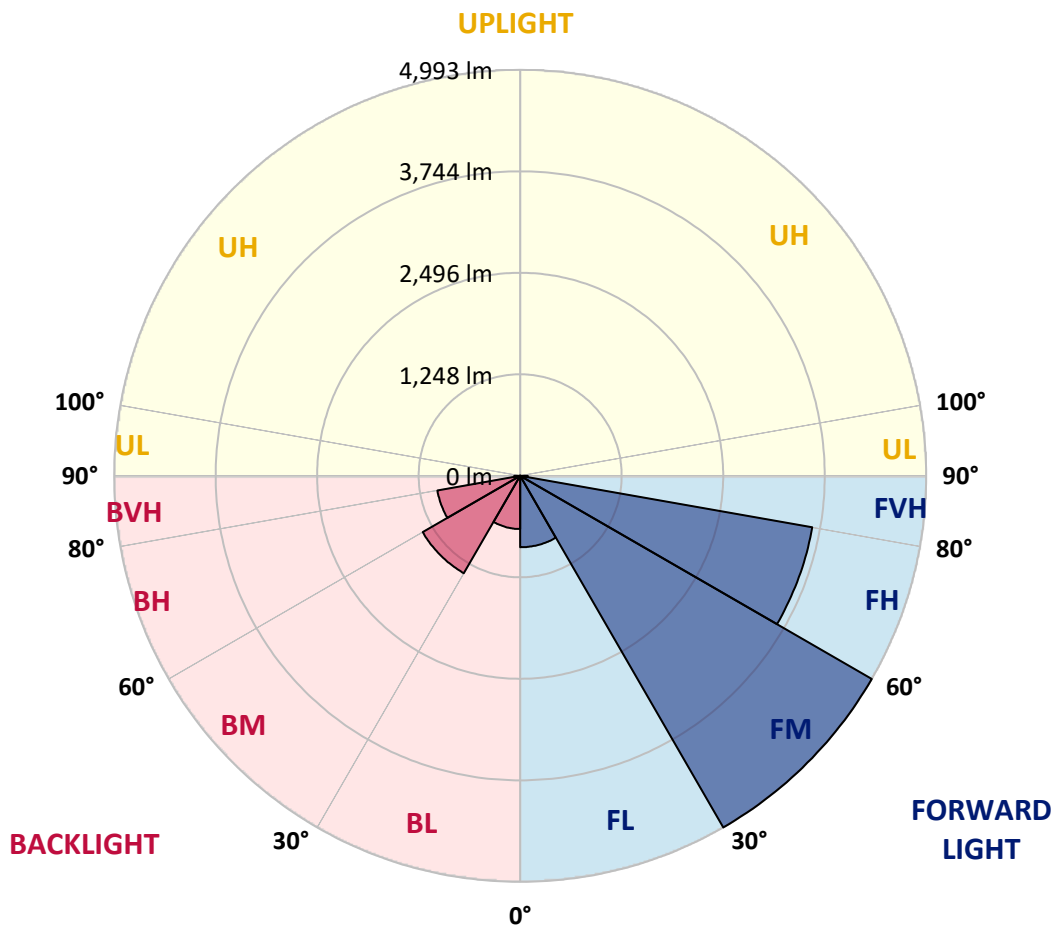
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.4	6.9			
FM (30°-60°)	4992.6	39.1			
FH (60°-80°)	3647.0	28.6			G2/5000
FVH (80°-90°)	93.4	0.7			G1/100
BL (0°-30°)	654.2	5.1	B2/1000		
BM (30°-60°)	1383.5	10.8	B2/2500		
BH (60°-80°)	1033.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	73.4	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2
2.5°	1914.9	1925.7	1922.3	1918.9	1918.9	1914.2	1913.5	1906.7	1901.3	1892.5
5°	1939.2	1950.7	1949.4	1952.1	1960.9	1962.9	1965.0	1960.9	1950.1	1939.2
7.5°	1917.6	1930.4	1934.5	1950.7	1977.8	2002.2	2020.5	2027.9	2017.7	2002.2
10°	1844.5	1858.7	1872.9	1911.5	1959.5	2017.1	2065.8	2094.9	2092.9	2078.0
12.5°	1696.2	1711.1	1741.6	1816.7	1904.7	2006.2	2096.9	2157.9	2178.8	2168.0
15°	1577.8	1590.6	1613.7	1690.8	1805.2	1959.5	2108.4	2226.9	2280.4	2274.3
17.5°	1574.4	1579.8	1594.0	1630.6	1718.6	1886.4	2096.3	2294.6	2396.8	2396.1
20°	1634.0	1636.0	1644.1	1651.6	1701.6	1830.9	2065.1	2350.8	2527.4	2527.4
22.5°	1716.5	1715.2	1723.3	1716.5	1740.9	1826.2	2045.5	2400.2	2673.0	2683.8
25°	1840.4	1833.6	1831.6	1816.0	1820.8	1870.2	2067.2	2456.4	2845.6	2867.9
27.5°	2005.6	1994.7	1987.3	1951.4	1939.2	1960.9	2133.5	2524.0	3037.8	3076.4
30°	2220.8	2201.2	2190.3	2128.1	2084.1	2087.5	2233.7	2614.1	3238.8	3301.1
32.5°	2514.6	2484.1	2455.0	2352.8	2272.2	2245.9	2362.9	2738.6	3456.8	3556.3
35°	2843.5	2819.2	2788.0	2630.3	2506.4	2445.5	2537.6	2912.6	3711.9	3869.7
37.5°	3160.3	3139.3	3154.2	2941.7	2781.9	2693.3	2766.4	3146.1	4026.7	4259.5
40°	3487.9	3471.7	3473.7	3270.6	3084.5	2985.0	3043.9	3439.2	4387.5	4723.2
42.5°	3843.9	3831.8	3791.1	3611.1	3401.9	3309.2	3363.4	3777.6	4774.6	5251.1
45°	4242.6	4235.2	4197.3	3990.8	3751.2	3647.0	3720.1	4151.2	5163.8	5748.0
47.5°	4587.1	4593.2	4588.5	4414.5	4166.1	4013.2	4100.5	4541.1	5526.0	6215.0
50°	4753.0	4784.8	4831.5	4777.3	4623.0	4467.3	4484.3	4917.5	5871.2	6652.9
52.5°	4666.3	4726.6	4853.8	4940.5	5000.0	4967.5	4922.2	5291.1	6196.1	7048.2
55°	4343.5	4428.1	4639.3	4848.4	5152.3	5388.6	5448.1	5705.3	6512.8	7396.1
57.5°	3755.3	3892.7	4082.2	4505.2	5017.0	5592.3	6061.4	6280.0	6848.6	7767.7
60°	2746.7	2930.8	3166.4	3795.9	4543.1	5483.3	6583.2	7162.6	7325.8	8249.0
62.5°	1757.8	1871.5	2088.1	2681.1	3540.0	4924.9	6743.0	8265.9	8134.6	9038.2
65°	1203.5	1276.6	1474.9	1807.9	2288.5	3665.9	6315.2	9093.1	9419.3	10289.1
67.5°	874.5	930.0	1099.2	1391.0	1491.1	2169.4	4900.5	9055.2	10668.1	11577.8
70°	637.6	676.9	819.0	1099.2	1147.3	1206.9	2968.7	7697.4	10641.1	11920.3
72.5°	472.5	499.5	595.0	852.9	928.7	815.0	1469.5	5594.3	9143.8	10781.8
75°	341.8	362.1	432.5	652.5	743.2	620.7	733.0	3269.3	6378.1	7584.3
77.5°	261.3	276.8	322.9	477.9	595.0	465.7	454.9	1504.0	3024.3	3039.1
80°	209.8	220.0	245.0	336.4	456.2	348.6	296.5	607.2	955.7	808.9
82.5°	154.3	171.2	207.1	236.2	326.3	240.3	180.7	306.6	363.5	312.7
85°	88.0	99.5	125.2	169.2	208.5	146.9	103.6	136.1	169.2	138.8
87.5°	31.1	40.6	44.0	66.3	90.7	60.9	39.9	39.3	55.5	41.3
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°
1870.2	0°	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2
1890.5	2.5°	1883.7	1880.3	1866.8	1848.5	1829.6	1811.3	1805.2	1792.3	1783.5	1778.8
1934.5	5°	1921.6	1910.8	1879.0	1838.4	1795.7	1749.7	1717.2	1687.4	1665.8	1645.5
1994.7	7.5°	1975.8	1956.8	1902.0	1830.9	1755.1	1678.6	1621.8	1578.5	1549.4	1530.4
2065.1	10°	2038.7	2009.6	1925.7	1819.4	1702.3	1592.7	1525.7	1488.4	1470.2	1460.0
2145.7	12.5°	2111.2	2069.9	1950.1	1793.0	1621.8	1496.6	1450.5	1439.7	1440.4	1441.1
2247.2	15°	2200.5	2143.0	1969.7	1735.5	1516.9	1422.8	1414.7	1432.3	1450.5	1459.3
2362.3	17.5°	2301.4	2220.1	1973.1	1640.7	1414.0	1375.4	1401.1	1439.0	1466.8	1479.0
2490.9	20°	2409.7	2298.6	1948.7	1506.7	1329.4	1336.8	1382.8	1431.6	1462.0	1477.6
2637.8	22.5°	2533.5	2382.6	1890.5	1365.9	1260.3	1294.9	1349.0	1396.4	1428.2	1443.8
2810.4	25°	2675.0	2476.7	1799.1	1247.5	1200.8	1247.5	1301.6	1340.9	1366.6	1380.8
3003.3	27.5°	2832.0	2574.8	1677.3	1153.4	1148.6	1198.7	1243.4	1273.9	1287.4	1298.2
3208.4	30°	2989.7	2664.2	1529.7	1082.3	1103.3	1150.7	1182.5	1196.0	1200.1	1202.1
3437.1	32.5°	3160.3	2741.3	1374.7	1023.4	1060.0	1104.0	1122.9	1129.0	1110.1	1097.2
3714.7	35°	3366.7	2823.9	1223.1	976.7	1017.3	1055.2	1061.3	1055.9	1033.6	1007.2
4062.6	37.5°	3621.9	2926.8	1101.9	943.6	977.4	1002.4	995.0	993.6	995.7	964.5
4480.9	40°	3934.6	3060.8	1013.3	917.8	944.9	950.3	929.3	940.8	951.0	903.6
4939.8	42.5°	4281.9	3222.6	957.1	900.2	917.8	905.0	872.5	885.3	884.0	821.7
5400.7	45°	4635.9	3398.6	937.5	887.4	892.8	867.1	831.2	834.6	806.2	750.0
5842.7	47.5°	4987.8	3587.4	949.6	876.5	861.7	832.5	804.8	789.9	747.9	706.0
6266.5	50°	5333.1	3785.7	994.3	854.9	819.0	802.1	781.8	755.4	710.7	674.8
6667.2	52.5°	5653.2	3985.4	1044.4	819.0	765.5	775.7	762.8	732.4	688.4	651.8
7046.2	55°	5956.4	4185.1	1064.0	769.6	715.5	752.7	745.2	689.1	636.3	606.5
7442.9	57.5°	6286.8	4425.4	1042.4	706.7	674.8	726.3	697.9	635.6	605.1	582.8
7959.3	60°	6744.3	4802.4	995.7	628.8	636.3	687.0	638.3	612.6	579.4	554.4
8733.6	62.5°	7504.4	5505.7	920.5	551.6	590.9	628.8	609.9	584.1	550.3	525.9
10057.6	65°	8628.0	6483.1	779.1	491.4	540.1	572.0	579.4	553.7	518.5	492.8
11217.8	67.5°	9575.7	7096.3	589.6	441.3	488.0	525.9	546.9	521.9	484.6	459.6
11489.2	70°	9523.5	6650.9	450.1	391.9	442.0	480.6	507.7	488.0	448.1	424.4
10436.0	72.5°	8458.8	5563.9	364.2	341.8	395.3	433.2	465.7	450.8	410.2	387.2
7645.2	75°	6214.3	3949.5	291.1	291.1	337.1	383.8	419.7	410.2	373.0	356.7
3209.7	77.5°	2619.5	1657.0	228.1	241.6	280.2	329.6	374.3	377.7	345.2	365.5
848.8	80°	696.5	456.9	174.0	190.2	220.0	272.1	325.6	324.2	289.0	270.1
315.4	82.5°	265.3	180.0	123.9	134.0	159.1	208.5	257.9	266.0	230.8	199.7
123.9	85°	102.2	77.2	76.5	80.5	92.7	138.1	194.9	201.7	174.0	147.6
34.5	87.5°	26.4	23.0	28.4	27.1	42.6	73.8	111.7	115.7	106.3	61.6
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>
1870.2
1784.2
1653.6
1534.5
1462.7
1442.4
1458.7
1481.7
1481.7
1447.8
1384.9
1302.3
1206.9
1101.3
1008.5
966.6
905.0
821.0
752.0
706.0
672.1
652.5
603.8
580.8
553.0
525.9
494.1
460.3
426.4
387.2
352.0
331.7
251.1
199.7
152.3
88.0
0.0

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