

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: P940317

Luminaire Tested: **GALN-SB3B-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

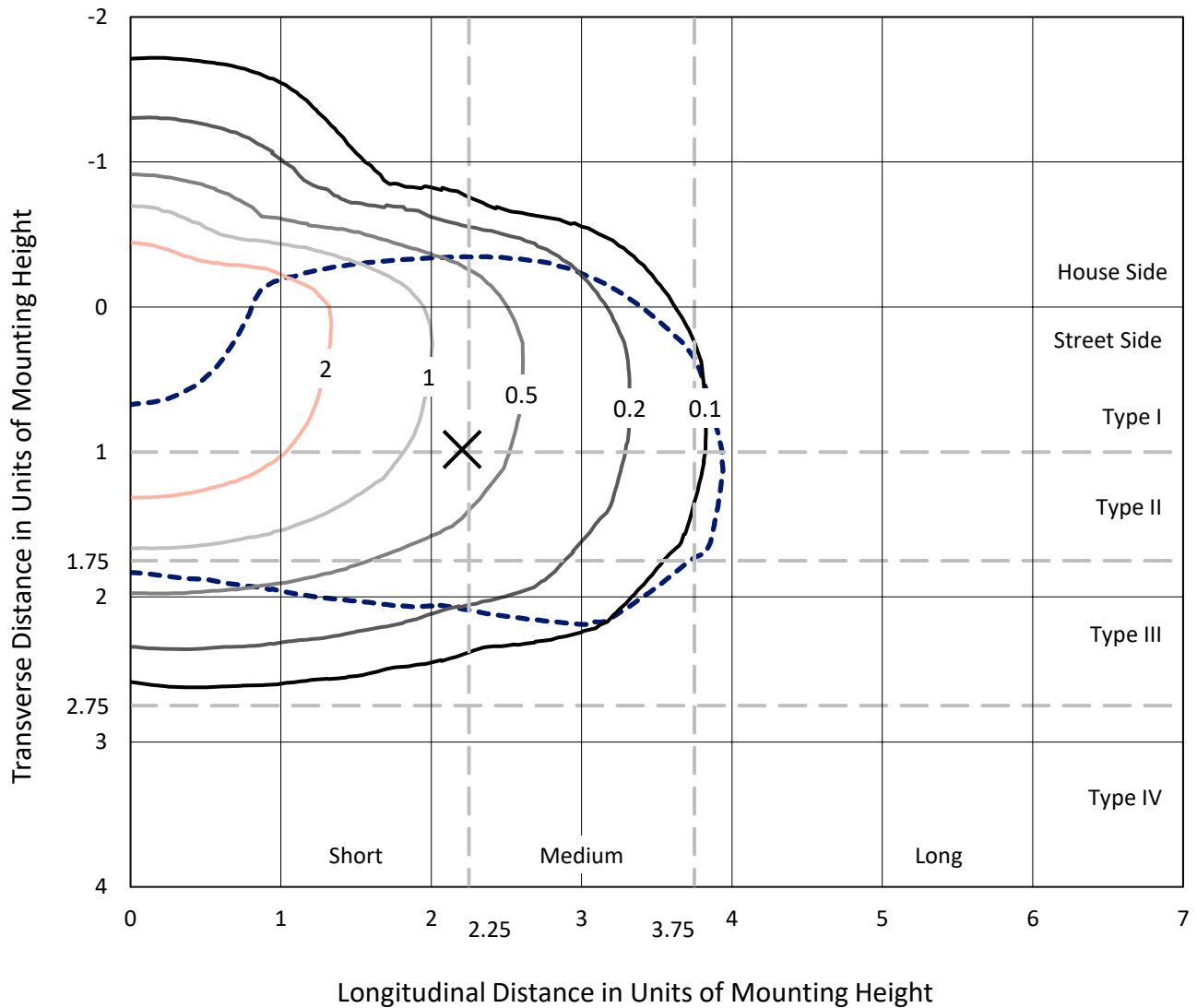
Lumens per Lamp: N/A  
Luminaire Lumens: 14701 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

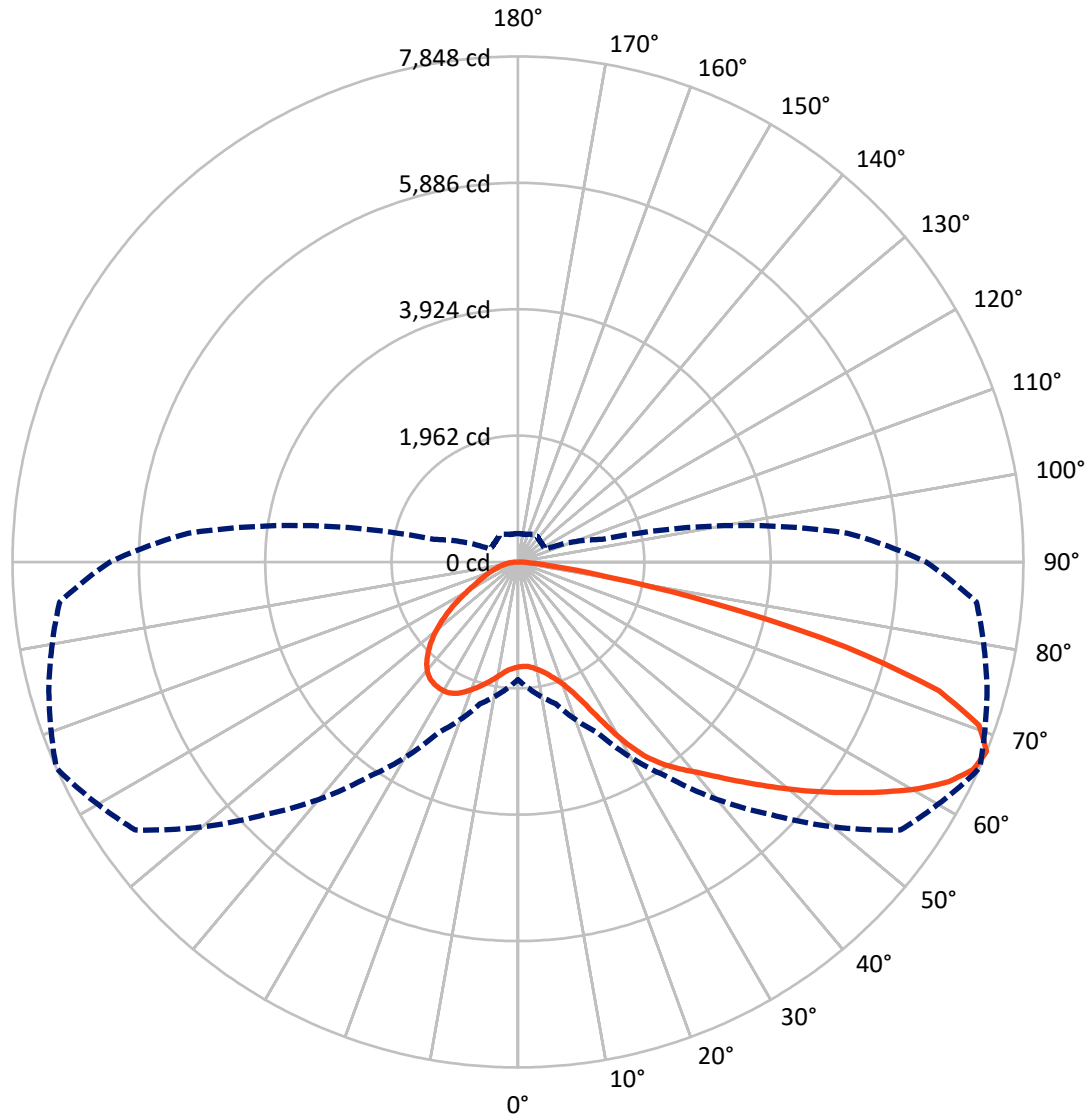
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P940317  
CATALOG NUMBER: GALN-SB3B-827-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GALN-SB3B-827-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3655.3	0.0	3655.3
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	11045.6	0.0	11045.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	14701.0	0.0	14701.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	1.1
10°-20°	534.1	3.6
20°-30°	1029.5	7.0
30°-40°	1805.0	12.3
40°-50°	2683.5	18.3
50°-60°	3401.6	23.1
60°-70°	3328.4	22.6
70°-80°	1587.7	10.8
80°-90°	169.7	1.2
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°	14701.0	100.0
0°-180°	14701.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940317

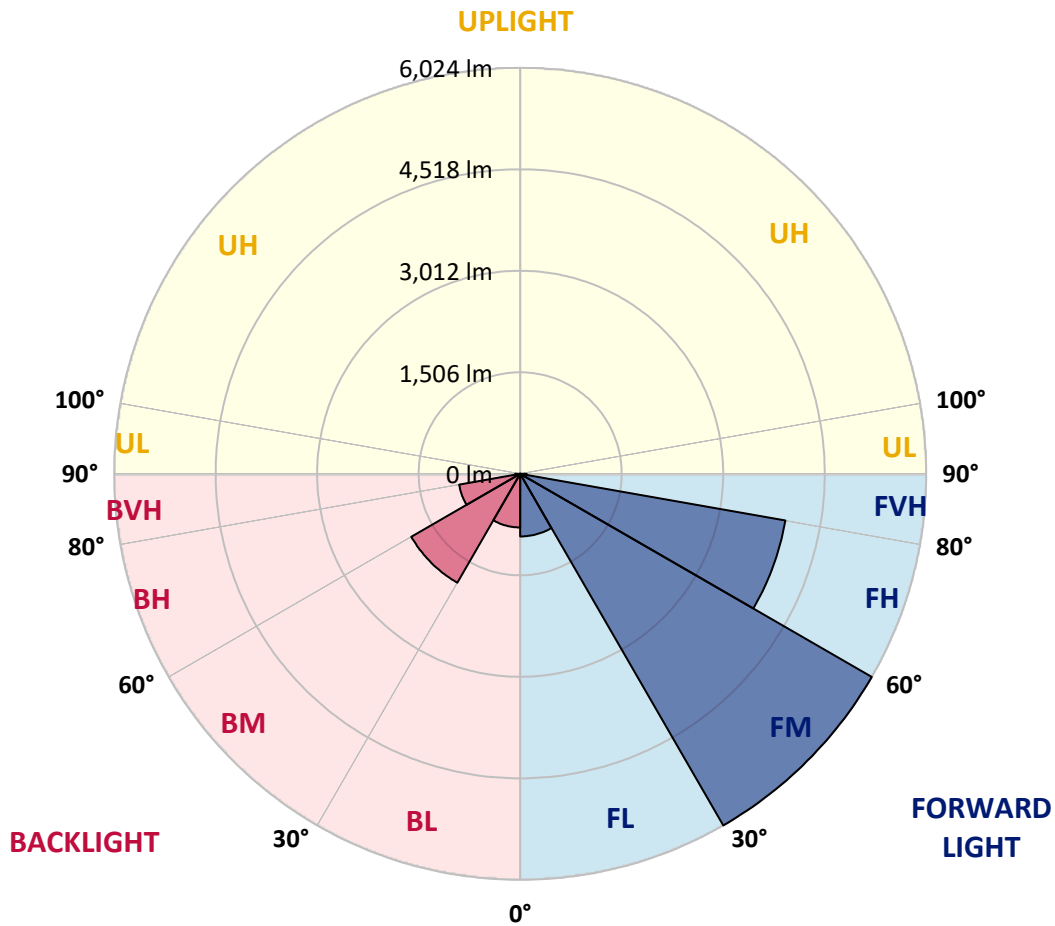
CATALOG NUMBER: GALN-SB3B-827-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.0	6.3			
FM (30°-60°)	6024.3	41.0			
FH (60°-80°)	3996.1	27.2			G2/5000
FVH (80°-90°)	96.2	0.7			G1/100
BL (0°-30°)	796.3	5.4	B2/1000		
BM (30°-60°)	1865.7	12.7	B2/2500		
BH (60°-80°)	919.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	73.5	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 III Short



REPORT NUMBER: P940317

CATALOG NUMBER: GALN-SB3B-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5
2.5°	1613.5	1622.8	1620.5	1616.6	1615.9	1617.4	1619.7	1622.0	1621.3	1625.1
5°	1608.9	1618.2	1617.4	1617.4	1620.5	1626.7	1630.5	1634.4	1630.5	1635.2
7.5°	1612.0	1618.9	1622.0	1625.1	1632.9	1644.4	1653.7	1662.2	1657.6	1663.0
10°	1651.4	1656.8	1659.9	1659.9	1665.3	1678.4	1687.7	1703.1	1699.3	1707.8
12.5°	1723.2	1728.6	1728.6	1725.5	1729.4	1737.9	1741.0	1758.0	1751.0	1764.9
15°	1811.3	1822.1	1813.6	1808.2	1809.7	1818.2	1817.5	1830.6	1823.6	1835.2
17.5°	1908.6	1922.5	1908.6	1907.8	1904.7	1914.0	1914.8	1926.4	1914.0	1922.5
20°	2023.7	2043.0	2031.4	2035.3	2028.3	2032.2	2036.0	2053.0	2033.7	2039.9
22.5°	2185.9	2209.1	2196.7	2211.4	2206.7	2203.7	2202.9	2233.0	2202.9	2205.2
25°	2422.2	2450.1	2428.4	2448.5	2448.5	2458.5	2470.1	2508.8	2458.5	2443.9
27.5°	2771.4	2799.2	2756.7	2769.1	2765.2	2789.9	2777.5	2873.3	2819.3	2795.3
30°	3191.6	3241.0	3160.7	3157.6	3153.7	3193.1	3210.9	3274.2	3219.4	3195.4
32.5°	3645.7	3697.5	3601.7	3573.9	3559.2	3583.2	3568.5	3619.5	3581.6	3544.5
35°	4126.2	4177.1	4086.0	4031.9	3973.2	3923.0	3870.5	3883.6	3848.1	3791.7
37.5°	4580.3	4673.8	4577.2	4519.3	4411.2	4313.1	4166.3	4105.3	4072.1	4020.3
40°	5043.0	5096.3	5022.9	4973.5	4856.1	4702.4	4467.6	4338.6	4293.8	4243.6
42.5°	5383.6	5434.6	5395.2	5361.2	5269.3	5090.9	4787.3	4625.9	4561.0	4504.6
45°	5654.0	5691.8	5667.1	5679.5	5640.1	5467.0	5118.7	4934.1	4866.9	4798.1
47.5°	5762.9	5803.0	5842.4	5915.8	5983.0	5855.6	5474.8	5267.8	5196.7	5126.4
50°	5750.5	5791.5	5905.8	6061.8	6270.3	6227.9	5850.2	5623.1	5557.4	5477.1
52.5°	5651.6	5698.0	5844.7	6104.3	6436.4	6506.7	6232.5	5990.0	5928.2	5832.4
55°	5392.1	5419.9	5640.1	6007.7	6475.8	6701.3	6607.1	6380.8	6319.0	6185.4
57.5°	4910.9	4951.1	5271.6	5747.4	6376.9	6833.4	6936.1	6791.7	6732.2	6539.9
60°	4283.0	4347.1	4714.0	5310.2	6125.1	6832.6	7235.1	7195.7	7146.2	6889.0
62.5°	3572.3	3646.5	3999.5	4692.3	5684.9	6638.8	7422.0	7534.0	7508.5	7211.1
65°	2743.6	2794.5	3146.0	3892.9	4999.7	6222.4	7443.6	7764.9	7769.6	7456.0
67.5°	1826.7	1973.5	2278.6	2921.2	4082.1	5542.0	7253.6	7802.8	7847.6	7540.2
70°	891.3	1084.4	1383.4	1898.6	2921.2	4498.5	6757.0	7492.3	7591.9	7294.5
72.5°	370.0	432.5	595.5	936.9	1676.9	3035.5	5759.0	6650.4	6835.0	6463.4
75°	249.5	270.3	340.6	480.4	763.9	1496.9	4153.2	4958.8	5256.2	4881.6
77.5°	192.3	205.5	247.9	336.0	454.2	566.2	2223.0	2988.4	3142.1	2908.9
80°	151.4	161.4	185.4	244.9	322.1	302.8	757.7	1354.0	1442.8	1210.3
82.5°	131.3	135.2	132.9	166.1	214.0	176.9	248.7	499.7	551.5	400.1
85°	95.0	105.8	110.5	102.7	113.5	89.6	102.0	176.9	194.6	173.8
87.5°	38.6	57.2	70.3	66.4	41.7	25.5	31.7	51.8	59.5	64.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940317  
 CATALOG NUMBER: GALN-SB3B-827-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1630.5	0°	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5
1631.3	2.5°	1632.1	1637.5	1641.3	1646.0	1649.1	1653.7	1663.0	1668.4	1669.2	1673.0
1643.7	5°	1646.8	1654.5	1663.0	1675.3	1689.2	1700.8	1718.6	1730.9	1735.6	1739.4
1673.8	7.5°	1678.4	1689.2	1704.7	1726.3	1746.4	1761.8	1783.5	1798.1	1812.8	1818.2
1721.7	10°	1725.5	1741.0	1763.4	1792.7	1814.4	1834.4	1856.8	1869.2	1883.9	1890.1
1778.8	12.5°	1784.2	1800.5	1829.8	1870.8	1890.8	1904.7	1912.5	1909.4	1912.5	1917.9
1847.6	15°	1851.4	1869.2	1902.4	1946.4	1960.3	1948.0	1931.0	1915.6	1913.2	1914.8
1931.0	17.5°	1931.0	1944.1	1982.7	2019.8	2009.8	1958.8	1921.7	1897.0	1884.7	1880.8
2037.6	20°	2042.2	2042.2	2073.9	2097.1	2029.9	1943.4	1885.4	1845.3	1819.8	1809.0
2182.8	22.5°	2177.4	2165.0	2185.1	2168.9	2026.0	1900.1	1819.8	1750.3	1711.6	1696.2
2385.9	25°	2348.9	2334.2	2328.8	2228.4	1998.2	1831.4	1700.8	1616.6	1582.6	1574.2
2678.7	27.5°	2607.6	2570.5	2500.3	2260.8	1947.2	1723.2	1561.8	1483.8	1464.5	1465.2
3054.8	30°	2952.1	2878.0	2705.7	2266.2	1863.8	1570.3	1419.7	1364.1	1354.8	1358.7
3370.8	32.5°	3271.1	3200.8	2915.8	2241.5	1735.6	1420.4	1292.2	1255.1	1241.2	1245.9
3611.7	35°	3521.4	3502.1	3110.5	2206.7	1578.0	1279.9	1177.9	1146.2	1119.2	1113.0
3838.8	37.5°	3757.7	3750.0	3256.4	2158.1	1422.0	1180.2	1086.0	1044.3	1004.9	983.3
4089.9	40°	4017.2	4009.5	3352.2	2083.2	1283.7	1093.7	1003.3	948.5	899.8	860.5
4374.1	42.5°	4309.2	4263.6	3397.8	1975.8	1166.3	1020.3	936.1	862.0	797.9	761.6
4695.4	45°	4628.2	4525.5	3397.0	1839.1	1067.5	953.1	864.3	759.3	699.8	665.8
5025.2	47.5°	4966.5	4775.7	3355.3	1687.7	971.7	879.0	753.1	672.8	633.4	612.5
5383.6	50°	5315.7	5009.8	3284.2	1513.9	873.6	794.8	683.6	628.7	598.6	579.3
5738.9	52.5°	5643.9	5222.2	3198.5	1316.9	773.9	712.9	652.7	610.2	578.5	556.9
6083.4	55°	5949.0	5405.3	3077.2	1115.3	692.8	658.1	638.0	602.5	566.2	540.7
6433.3	57.5°	6220.1	5524.2	2867.9	926.1	634.9	620.2	622.6	589.3	547.6	526.0
6777.8	60°	6445.7	5611.5	2558.2	750.8	587.8	583.2	598.6	564.6	516.0	491.2
7069.0	62.5°	6580.8	5609.9	2178.2	614.8	547.6	549.2	566.9	533.7	484.3	461.1
7221.2	65°	6569.3	5472.4	1761.1	526.0	509.0	510.6	533.7	499.7	458.0	444.1
7144.7	67.5°	6336.8	5137.2	1350.9	468.1	466.5	473.5	500.5	476.6	441.8	440.3
6689.0	70°	5707.3	4441.3	973.2	421.7	422.5	432.5	468.1	461.9	433.3	436.4
5623.8	72.5°	4576.5	3386.2	653.4	373.1	373.8	390.1	437.2	450.3	424.8	465.8
3990.2	75°	3047.9	2111.7	420.2	321.3	322.1	342.9	410.1	427.9	401.6	464.2
2076.2	77.5°	1464.5	949.3	304.3	270.3	270.3	289.6	354.5	383.1	342.2	360.7
667.4	80°	505.9	356.8	239.4	217.8	213.2	226.3	298.9	332.1	295.1	271.9
217.8	82.5°	199.3	185.4	192.3	169.2	153.7	162.2	232.5	274.2	217.0	196.2
122.8	85°	114.3	120.5	135.9	112.0	88.8	99.6	170.7	197.0	163.7	144.4
40.2	87.5°	30.9	42.5	62.6	57.9	40.2	42.5	81.1	108.9	94.2	72.6
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>
1630.5
1672.2
1738.7
1819.0
1893.2
1919.4
1920.2
1886.2
1806.6
1693.9
1575.7
1467.6
1371.8
1252.1
1117.7
984.0
864.3
763.9
664.3
607.9
572.3
547.6
530.6
512.1
480.4
454.2
443.4
442.6
435.6
471.9
468.1
330.6
254.9
195.4
147.5
74.9
0.0

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