

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: P947156

Luminaire Tested: **GALN-SB2C-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

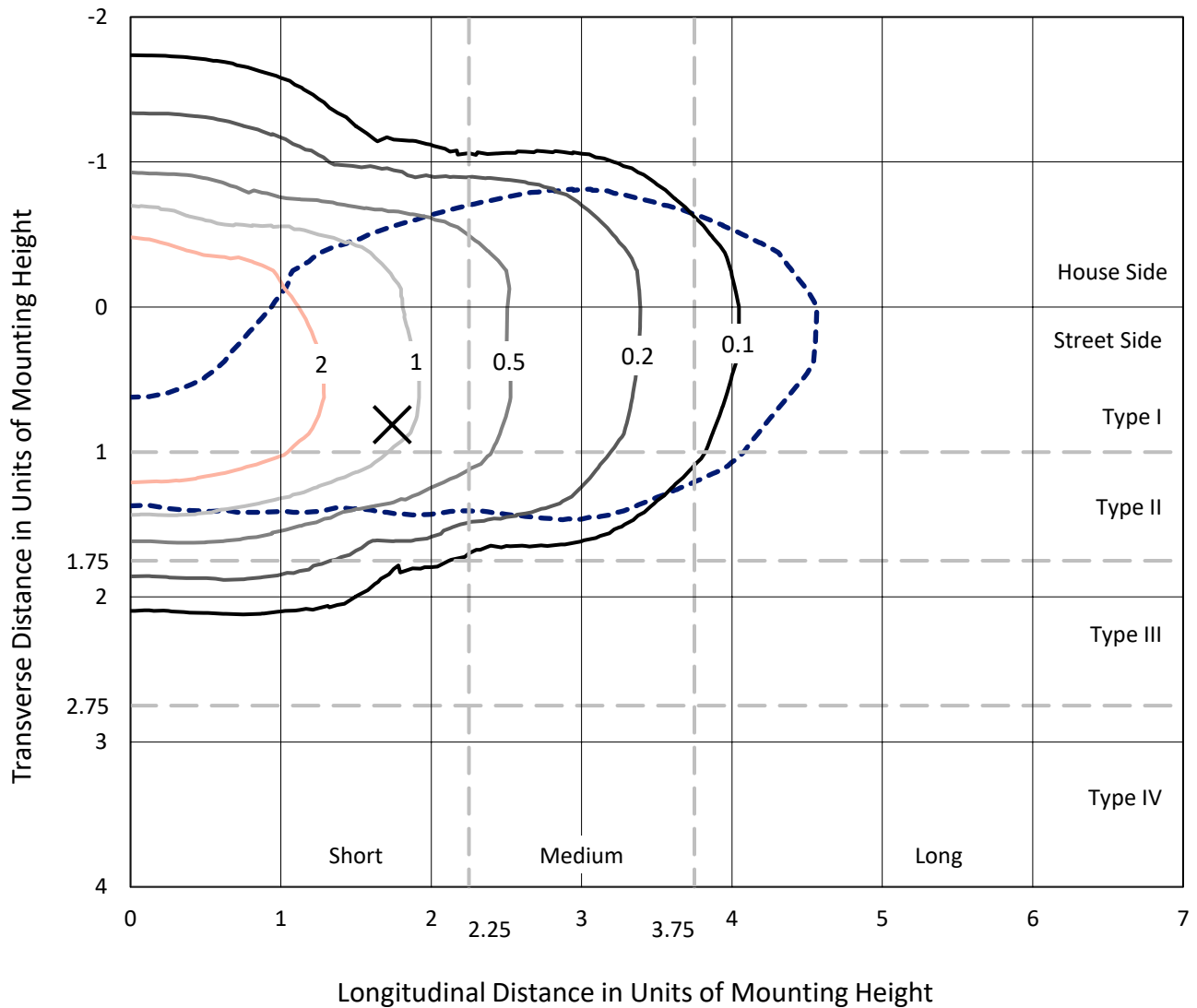
Lumens per Lamp: N/A  
Luminaire Lumens: 13638 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

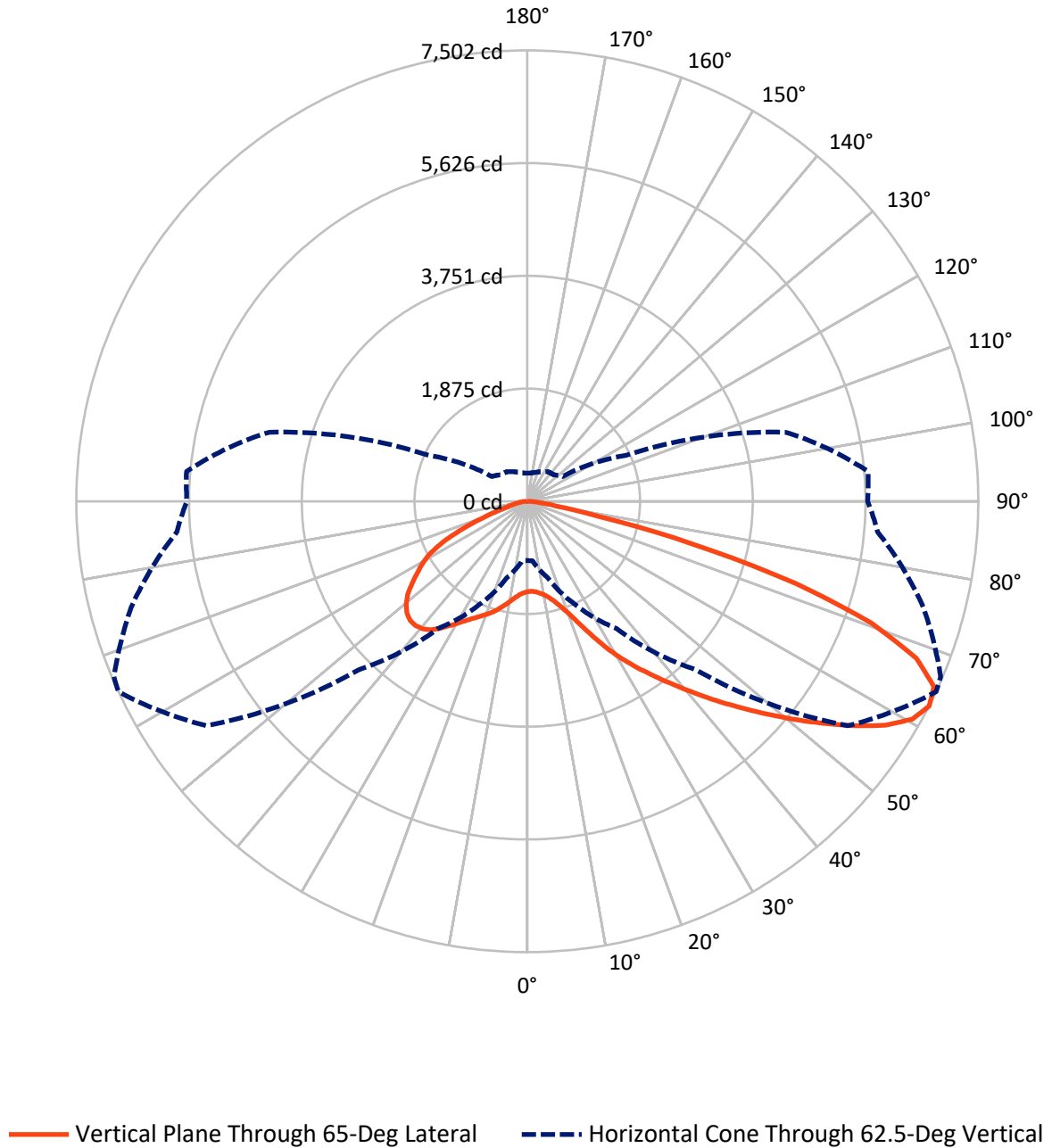
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4303.6	0.0	4303.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	9334.4	0.0	9334.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	13638.0	0.0	13638.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	1.1
10°-20°	508.1	3.7
20°-30°	1030.2	7.6
30°-40°	1782.8	13.1
40°-50°	2697.9	19.8
50°-60°	3163.1	23.2
60°-70°	2651.9	19.4
70°-80°	1464.1	10.7
80°-90°	190.2	1.4
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°	13638.0	100.0
0°-180°	13638.0	100.0



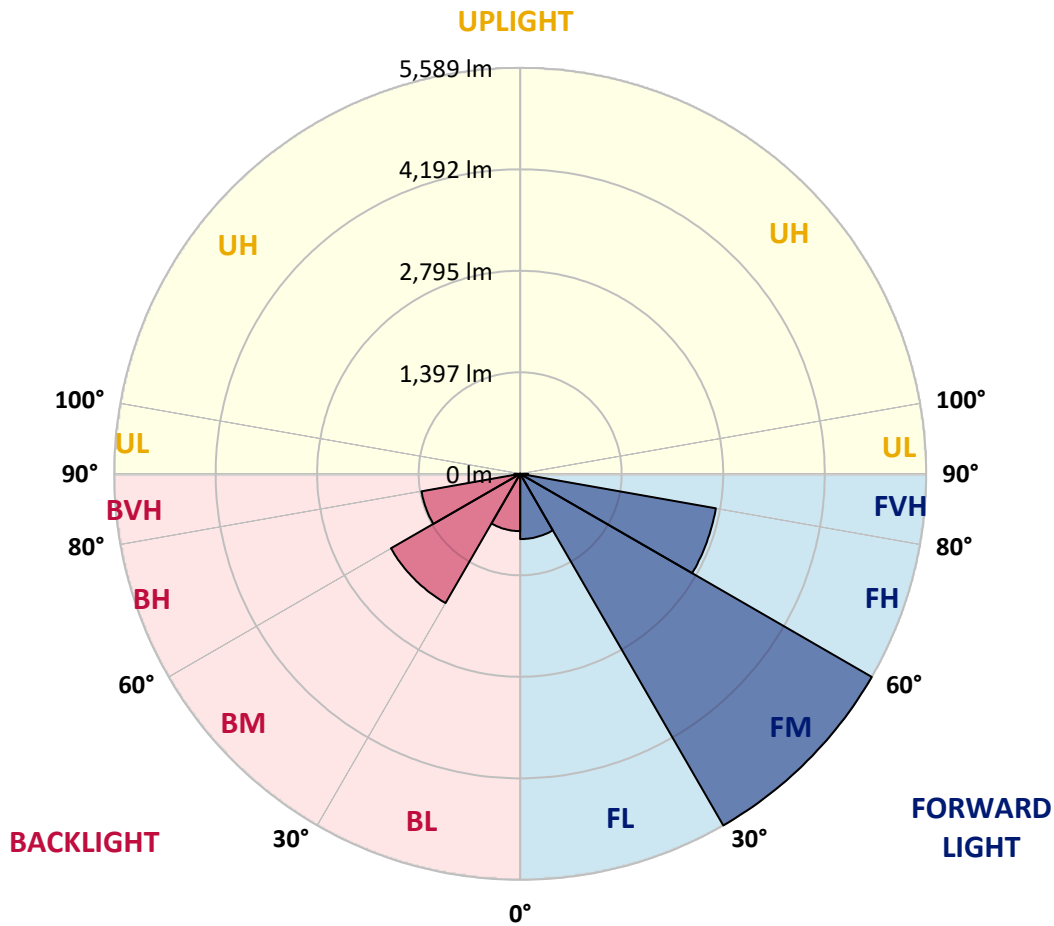
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.9	6.6			
FM (30°-60°)	5589.3	41.0			
FH (60°-80°)	2735.4	20.1			G2/5000
FVH (80°-90°)	110.8	0.8			G2/225
BL (0°-30°)	789.2	5.8	B2/1000		
BM (30°-60°)	2054.5	15.1	B2/2500		
BH (60°-80°)	1380.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	79.3	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8
2.5°	1492.9	1488.7	1492.2	1492.2	1493.7	1492.9	1497.9	1499.3	1501.4	1505.7
5°	1478.1	1477.4	1483.7	1489.4	1495.1	1500.0	1506.4	1515.6	1517.0	1522.0
7.5°	1473.1	1468.9	1478.8	1485.9	1499.3	1511.3	1528.3	1543.9	1550.3	1552.4
10°	1511.3	1504.3	1513.5	1517.7	1529.0	1541.1	1560.9	1585.6	1592.7	1601.2
12.5°	1576.4	1568.7	1582.1	1588.5	1599.1	1609.7	1623.1	1647.2	1650.7	1666.3
15°	1665.6	1656.4	1664.9	1672.7	1690.4	1700.3	1713.7	1737.0	1737.0	1749.1
17.5°	1786.6	1774.5	1780.9	1783.7	1795.1	1809.9	1832.6	1853.1	1863.7	1859.5
20°	1967.0	1952.1	1952.1	1938.0	1933.7	1945.8	1975.5	2003.8	2015.1	1993.2
22.5°	2238.0	2216.8	2204.7	2156.6	2137.5	2138.9	2168.7	2203.3	2212.5	2173.6
25°	2582.6	2549.3	2533.0	2462.3	2419.1	2381.6	2405.0	2449.6	2462.3	2414.2
27.5°	2927.2	2929.3	2913.7	2828.8	2757.3	2688.7	2676.7	2723.4	2736.8	2682.3
30°	3410.4	3360.2	3330.5	3228.6	3126.7	3030.5	2980.9	3000.0	3003.6	2938.5
32.5°	3827.2	3814.4	3750.8	3661.6	3530.7	3380.0	3297.2	3266.8	3261.1	3168.4
35°	4301.9	4294.9	4227.6	4121.5	3980.0	3770.6	3621.3	3534.2	3527.2	3397.0
37.5°	4784.5	4784.5	4718.7	4602.7	4456.2	4194.4	3967.3	3829.3	3806.7	3636.8
40°	5169.4	5146.1	5158.1	5109.3	4941.6	4663.5	4351.5	4151.2	4120.8	3917.0
42.5°	5388.0	5380.3	5452.4	5506.9	5438.3	5216.1	4774.6	4500.1	4457.6	4225.5
45°	5436.9	5428.4	5557.1	5756.7	5852.9	5761.6	5234.5	4867.3	4815.6	4548.2
47.5°	5324.4	5307.4	5496.3	5811.2	6119.6	6280.3	5732.6	5265.6	5190.6	4862.3
50°	4986.1	4969.9	5255.7	5673.9	6209.5	6632.6	6273.2	5688.0	5573.4	5199.1
52.5°	4251.0	4258.8	4706.7	5281.2	6091.3	6852.0	6738.8	6133.1	5995.1	5543.7
55°	3311.4	3328.3	3878.8	4511.4	5618.7	6818.7	7056.5	6591.6	6454.3	5867.8
57.5°	2371.0	2446.0	2961.8	3588.0	4710.9	6291.6	7125.8	7027.4	6894.4	6221.5
60°	1536.8	1550.3	2080.9	2712.1	3587.3	5354.8	6985.0	7357.9	7253.9	6582.4
62.5°	984.9	994.1	1317.5	1897.0	2581.9	3961.6	6510.9	7501.5	7469.7	6820.8
65°	723.8	716.8	885.2	1253.8	1739.2	2443.2	5590.4	7432.2	7495.1	6970.1
67.5°	604.3	594.3	677.1	868.2	1281.4	1387.5	4136.4	6981.5	7212.1	6953.2
70°	550.5	542.0	592.2	644.6	999.8	929.0	2085.2	6069.4	6424.6	6760.0
72.5°	466.3	451.4	520.1	572.4	777.6	712.5	861.8	4662.1	5095.1	6140.9
75°	361.6	351.7	410.4	503.8	584.4	556.1	544.8	2830.9	3303.6	4749.1
77.5°	286.6	273.1	326.9	392.7	525.7	419.6	396.9	1219.1	1687.5	3031.9
80°	215.8	203.8	248.4	310.6	404.0	316.3	256.8	497.4	636.1	1536.1
82.5°	153.5	142.9	173.4	227.8	271.7	283.7	157.8	278.8	313.4	592.2
85°	98.4	92.0	116.0	142.9	172.6	182.5	96.2	145.8	159.9	244.1
87.5°	53.8	43.9	62.3	66.5	80.0	72.9	46.0	53.1	57.3	88.4
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°
1502.8	0°	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8	1502.8
1505.7	2.5°	1508.5	1510.6	1517.7	1519.8	1524.8	1531.2	1535.4	1539.6	1539.6	1543.9
1528.3	5°	1529.0	1534.0	1548.8	1556.6	1569.4	1582.1	1589.9	1599.1	1604.7	1607.6
1564.4	7.5°	1568.7	1576.4	1597.7	1611.1	1633.0	1650.7	1662.8	1675.5	1678.3	1686.1
1614.6	10°	1622.4	1631.6	1655.7	1681.2	1707.3	1729.3	1740.6	1749.8	1753.3	1754.7
1679.0	12.5°	1684.0	1697.4	1728.6	1759.7	1787.3	1806.4	1809.2	1807.1	1797.2	1788.7
1758.3	15°	1759.7	1771.7	1806.4	1840.4	1867.2	1870.8	1853.1	1841.8	1829.7	1827.6
1846.7	17.5°	1850.3	1856.6	1888.5	1921.7	1923.8	1911.8	1885.6	1875.0	1863.7	1855.9
1962.1	20°	1955.7	1953.6	1976.2	1990.4	1975.5	1938.7	1899.1	1881.4	1870.1	1860.9
2103.6	22.5°	2081.6	2065.4	2062.5	2059.0	2019.4	1942.2	1888.5	1865.8	1848.1	1835.4
2301.0	25°	2264.9	2202.6	2159.5	2135.4	2046.3	1923.1	1854.5	1804.3	1771.0	1749.1
2542.2	27.5°	2494.1	2389.4	2280.5	2221.7	2046.3	1884.2	1772.4	1691.1	1636.6	1613.9
2775.7	30°	2712.8	2603.1	2442.5	2325.7	2041.3	1820.5	1640.1	1526.9	1463.2	1440.6
2975.3	32.5°	2899.6	2780.0	2614.4	2439.7	2029.3	1717.2	1476.0	1350.7	1289.2	1262.3
3172.7	35°	3072.9	2945.6	2787.1	2564.9	1997.4	1565.8	1295.5	1200.0	1131.4	1088.2
3373.6	37.5°	3250.5	3099.1	2950.5	2678.1	1940.1	1388.9	1156.9	1075.5	994.8	936.8
3587.3	40°	3443.7	3262.5	3125.3	2745.3	1846.0	1220.5	1049.3	975.0	889.4	827.8
3833.5	42.5°	3669.4	3458.5	3319.9	2780.0	1717.2	1101.0	979.3	906.4	825.7	775.5
4097.5	45°	3905.0	3674.3	3497.4	2779.3	1573.6	1045.1	956.6	884.4	795.3	742.9
4368.4	47.5°	4151.9	3900.0	3651.0	2734.0	1449.1	1052.8	943.9	837.0	738.7	687.7
4642.3	50°	4399.6	4147.0	3799.6	2649.1	1396.0	1035.9	896.5	770.5	654.5	608.5
4899.1	52.5°	4645.1	4409.5	3927.6	2528.1	1342.2	972.9	835.6	684.2	619.8	588.0
5164.4	55°	4892.0	4669.2	4067.0	2351.9	1207.8	899.3	733.7	651.7	592.2	563.2
5424.1	57.5°	5139.7	4969.2	4199.3	2175.7	1038.7	808.7	677.8	612.0	564.6	539.9
5641.3	60°	5397.2	5312.3	4335.9	2013.7	871.7	692.7	636.8	580.2	532.1	504.5
5850.1	62.5°	5662.6	5690.2	4442.7	1805.0	718.2	621.9	600.0	542.0	495.3	469.1
6022.7	65°	5930.0	6054.6	4512.8	1515.6	582.3	554.7	560.4	500.2	452.8	430.2
6149.4	67.5°	6131.7	6317.1	4493.0	1146.9	477.6	491.0	510.9	456.4	411.8	394.1
6128.8	70°	6154.3	6285.9	4297.7	785.4	399.8	428.8	455.7	413.2	367.2	354.5
5840.2	72.5°	5852.9	5861.4	3753.6	513.0	338.2	376.4	397.6	369.3	324.8	312.0
5109.3	75°	5062.6	4847.5	2755.9	338.2	283.0	323.4	343.2	323.4	280.2	283.0
3822.9	77.5°	3835.7	3433.1	1673.4	240.6	236.3	271.7	298.6	284.4	247.6	278.1
1922.4	80°	1976.2	1857.3	746.5	179.7	186.8	217.2	245.5	227.1	196.0	186.8
429.5	82.5°	452.8	526.4	294.3	128.8	135.1	156.4	187.5	170.5	140.8	118.9
179.0	85°	158.5	173.4	130.2	80.7	79.2	97.6	127.4	113.9	95.5	76.4
75.7	87.5°	50.2	65.8	48.8	32.5	34.0	43.9	58.7	53.8	44.6	29.0
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>
1502.8
1543.9
1609.0
1683.3
1751.2
1788.7
1827.6
1856.6
1861.6
1839.6
1757.6
1625.3
1454.0
1275.7
1102.4
952.4
839.9
785.4
751.4
694.8
611.3
588.0
560.4
535.6
502.4
468.4
429.5
394.8
355.2
311.3
273.1
244.8
170.5
117.5
80.7
30.4
0.0

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