

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: P950094

Luminaire Tested: **GALN-SB4C-927-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-927-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

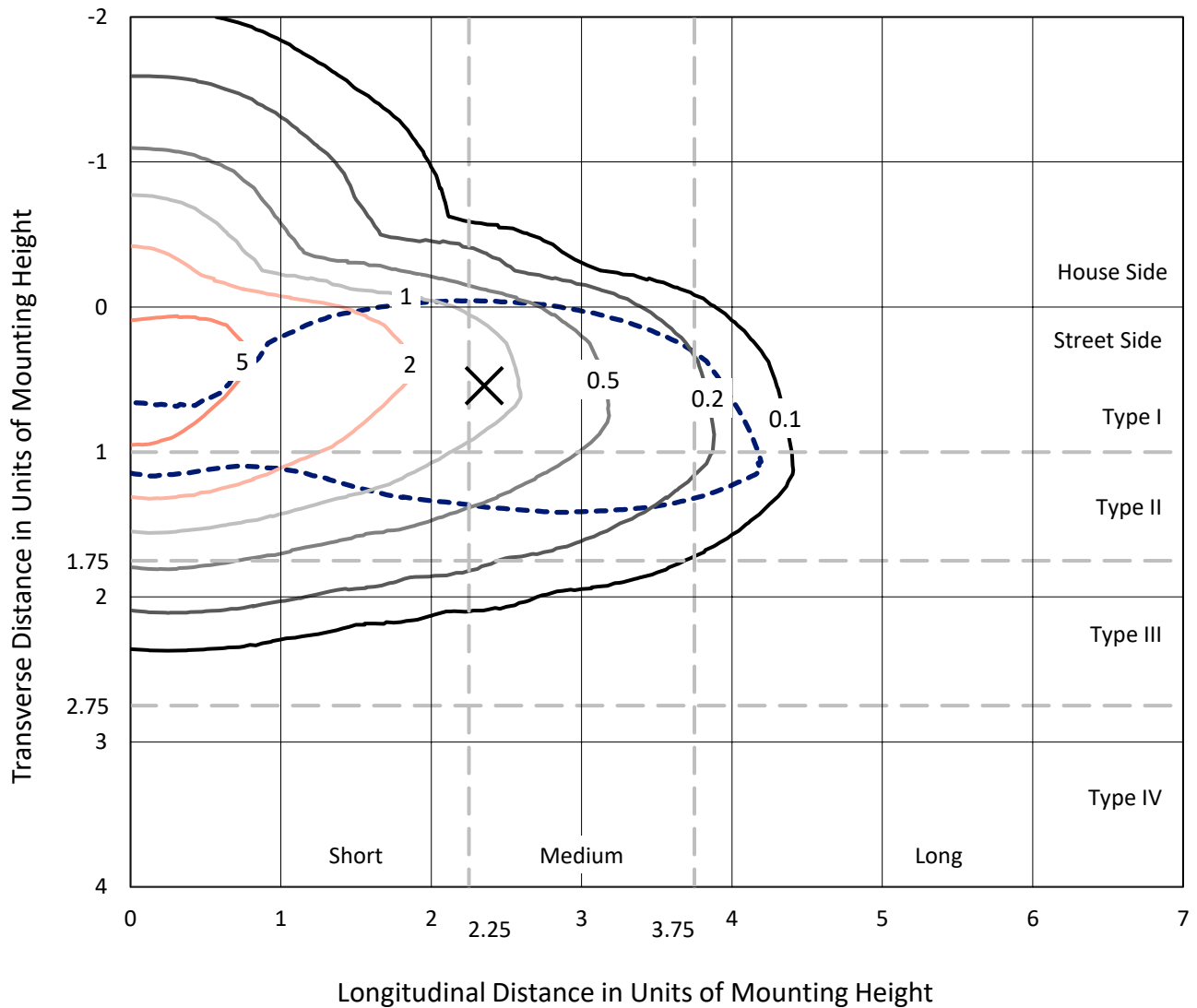
Lumens per Lamp: N/A  
Luminaire Lumens: 18609 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

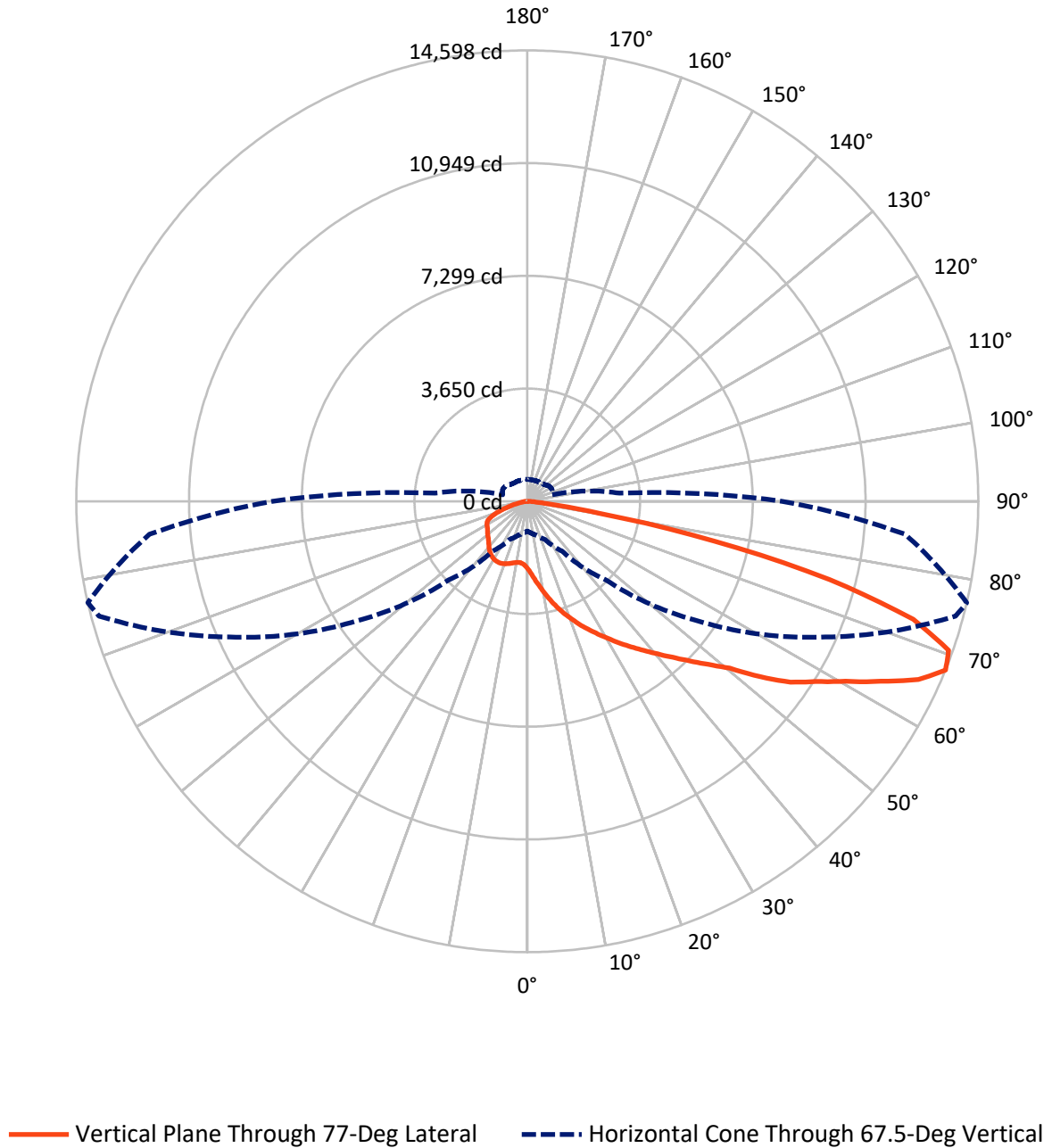
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3520.1	0.0	3520.1
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	15088.9	0.0	15088.9
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	18609.0	0.0	18609.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.0	1.3
10°-20°	840.8	4.5
20°-30°	1587.5	8.5
30°-40°	2557.4	13.7
40°-50°	3498.1	18.8
50°-60°	3945.9	21.2
60°-70°	3683.0	19.8
70°-80°	2018.9	10.8
80°-90°	243.5	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°	18609.0	100.0
0°-180°	18609.0	100.0



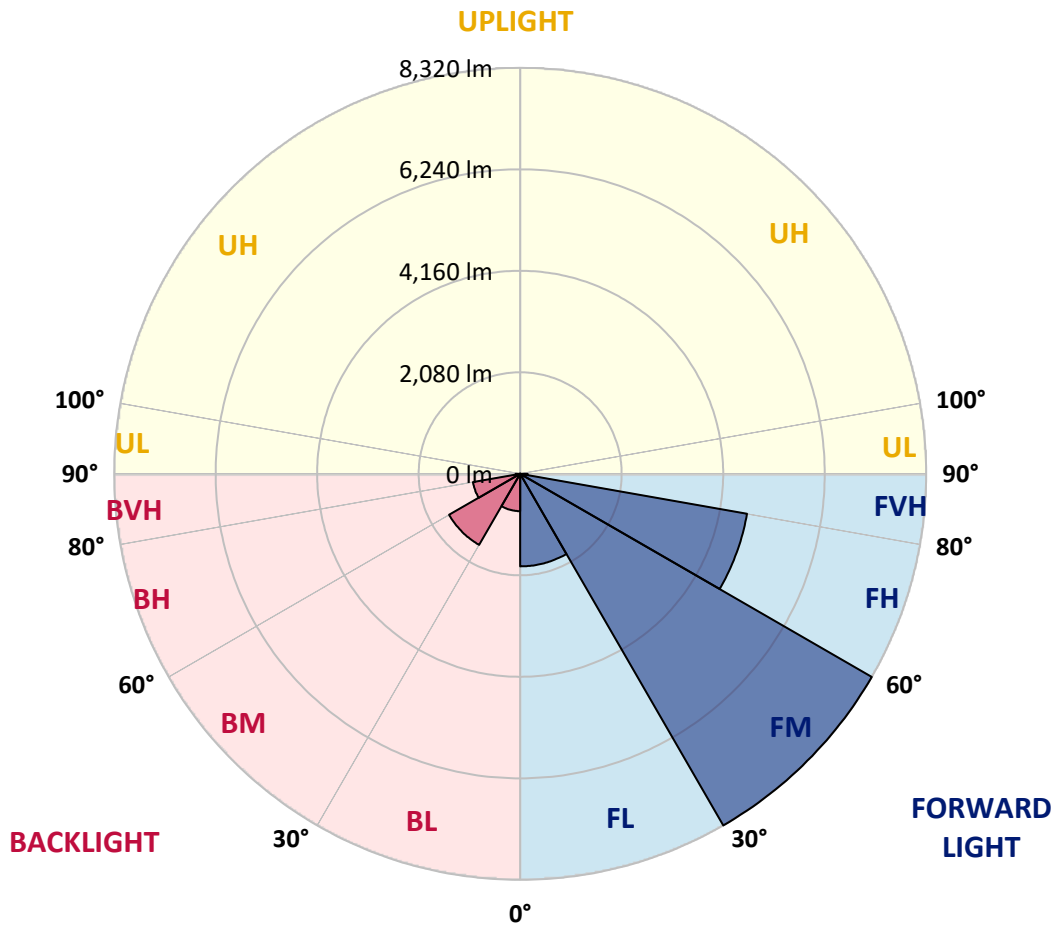
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.0	10.2			
FM (30°-60°)	8319.9	44.7			
FH (60°-80°)	4719.8	25.4			G2/5000
FVH (80°-90°)	152.3	0.8			G2/225
BL (0°-30°)	765.3	4.1	B2/1000		
BM (30°-60°)	1681.4	9.0	B2/2500		
BH (60°-80°)	982.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	91.2	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°	77°
0°	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4
2.5°	2733.8	2753.0	2729.0	2729.0	2648.3	2606.1	2525.4	2463.9	2353.4	2334.2
5°	3231.4	3255.4	3221.8	3207.4	3112.3	3024.9	2889.4	2755.9	2559.0	2538.8
7.5°	3616.6	3647.3	3617.6	3602.2	3517.7	3419.7	3261.2	3074.8	2797.2	2757.8
10°	3930.7	3935.5	3925.9	3931.7	3865.4	3784.7	3622.4	3405.3	3058.5	3004.7
12.5°	4108.4	4130.5	4149.7	4184.3	4172.8	4122.8	3976.8	3717.5	3335.2	3266.0
15°	4192.0	4230.4	4273.7	4353.4	4417.7	4430.2	4318.8	4052.7	3616.6	3533.0
17.5°	4221.8	4258.3	4326.5	4441.8	4580.1	4673.3	4623.3	4378.4	3895.2	3799.1
20°	4372.6	4383.2	4424.5	4534.0	4683.8	4838.5	4875.9	4691.5	4170.9	4062.3
22.5°	4695.3	4674.2	4685.7	4735.7	4843.3	4993.1	5078.6	4968.2	4454.2	4329.4
25°	5228.5	5167.0	5105.5	5047.9	5102.6	5187.2	5284.2	5244.8	4751.1	4592.6
27.5°	5901.8	5826.9	5691.5	5502.2	5436.0	5465.7	5509.0	5501.3	5025.8	4865.4
30°	6564.7	6477.2	6315.9	6042.1	5867.3	5788.5	5755.8	5733.7	5324.5	5153.5
32.5°	7093.9	7024.8	6866.3	6559.8	6306.3	6171.8	6063.2	5984.5	5636.7	5465.7
35°	7556.9	7492.6	7311.0	6976.7	6701.1	6557.9	6415.8	6247.7	5961.4	5788.5
37.5°	7979.6	7915.2	7666.4	7318.7	7041.1	6942.2	6815.4	6530.1	6287.0	6123.7
40°	8246.6	8232.2	7999.8	7605.9	7317.8	7268.8	7226.5	6857.6	6648.2	6496.4
42.5°	8314.8	8346.5	8162.1	7838.4	7563.7	7524.3	7623.2	7228.4	7053.6	6908.5
45°	8150.6	8241.8	8120.8	7900.8	7738.5	7717.4	7974.8	7633.8	7502.2	7369.6
47.5°	7734.6	7889.3	7839.3	7808.6	7785.6	7876.8	8284.1	8064.1	8010.3	7895.1
50°	6895.1	7188.1	7275.5	7469.5	7692.4	8000.7	8565.6	8533.9	8604.0	8487.7
52.5°	5443.6	5847.1	6354.3	6840.3	7406.1	7959.4	8874.9	9208.2	9504.0	9440.6
55°	4493.6	4675.2	5065.2	5956.6	6850.9	7785.6	9014.1	9752.8	10397.4	10340.7
57.5°	3763.6	3925.9	4166.1	4910.5	6011.4	7390.8	9100.6	10085.2	11009.3	11003.5
60°	2980.7	3152.6	3398.6	3925.9	5030.6	6708.7	9081.4	10463.7	11790.2	11838.3
62.5°	2097.0	2286.2	2559.0	3050.8	4028.7	5825.0	8689.5	10737.4	12709.5	12840.2
65°	1378.4	1503.3	1708.9	2133.5	3001.8	4688.6	7941.2	10773.0	13693.2	13914.1
67.5°	966.4	1014.4	1135.4	1366.0	1978.8	3595.5	6749.1	10405.1	14349.2	14598.0
70°	754.1	778.1	839.6	931.8	1243.0	2417.8	5171.8	9448.3	14209.0	14468.4
72.5°	651.3	674.3	697.4	708.9	833.8	1492.8	3503.3	7899.9	12888.2	13064.0
75°	590.8	596.5	615.7	611.9	635.9	968.3	2022.0	5755.8	10168.8	10108.3
77.5°	496.6	504.3	536.0	531.2	564.8	661.8	1049.9	3714.6	6592.5	6181.4
80°	420.7	424.6	459.2	453.4	490.9	479.3	536.0	1893.3	2796.3	2368.8
82.5°	146.0	180.6	350.6	361.2	374.6	290.1	309.3	772.3	854.0	654.2
85°	71.1	75.9	178.7	253.6	252.6	146.0	150.8	275.7	269.0	211.3
87.5°	11.5	14.4	21.1	98.9	78.8	38.4	51.9	53.8	55.7	48.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2183.4	0°	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4
2261.2	2.5°	2207.4	2159.4	2058.5	1965.4	1892.4	1822.2	1782.8	1749.2	1730.0	1726.2
2366.9	5°	2267.0	2168.0	1984.6	1829.9	1729.1	1654.1	1614.7	1589.8	1577.3	1569.6
2509.1	7.5°	2352.5	2207.4	1946.1	1770.4	1664.7	1610.9	1590.7	1586.9	1585.9	1586.9
2681.0	10°	2470.6	2271.8	1942.3	1756.0	1667.6	1637.8	1636.8	1637.8	1641.6	1642.6
2868.3	12.5°	2598.4	2338.1	1957.7	1768.4	1704.1	1687.8	1684.9	1683.9	1686.8	1688.7
3057.5	15°	2737.7	2425.5	1983.6	1795.3	1744.4	1727.1	1724.3	1718.5	1717.5	1716.6
3256.4	17.5°	2880.8	2511.9	2012.4	1824.2	1770.4	1746.3	1735.8	1722.3	1711.8	1708.9
3462.0	20°	3025.8	2597.4	2032.6	1838.6	1772.3	1738.7	1717.5	1694.5	1676.2	1665.7
3669.4	22.5°	3180.5	2686.8	2045.1	1834.7	1755.0	1708.9	1670.5	1643.6	1615.7	1597.5
3878.8	25°	3331.3	2764.6	2044.1	1814.5	1721.4	1662.8	1613.8	1579.2	1540.8	1521.6
4095.0	27.5°	3476.4	2834.7	2020.1	1779.0	1673.3	1608.0	1549.4	1508.1	1470.7	1452.4
4313.0	30°	3626.2	2893.3	1982.7	1727.1	1616.7	1544.6	1480.3	1444.7	1411.1	1393.8
4543.6	32.5°	3775.1	2947.1	1929.8	1662.8	1551.3	1482.2	1418.8	1386.1	1366.0	1366.0
4791.4	35°	3932.6	2984.5	1859.7	1587.9	1482.2	1415.9	1366.0	1346.7	1344.8	1333.3
5053.6	37.5°	4098.8	3008.6	1774.2	1511.0	1414.0	1351.5	1336.2	1313.1	1293.9	1268.9
5341.8	40°	4273.7	3032.6	1671.4	1431.3	1341.9	1307.4	1300.6	1269.9	1215.1	1153.7
5668.4	42.5°	4485.9	3048.9	1564.8	1351.5	1266.1	1254.5	1264.1	1211.3	1123.9	1077.8
6062.3	45°	4731.9	3075.8	1466.8	1272.8	1188.2	1188.2	1228.6	1159.4	1087.4	1058.6
6511.8	47.5°	5050.8	3138.2	1375.6	1186.3	1116.2	1135.4	1149.8	1097.0	1056.6	1021.1
7059.4	50°	5511.8	3288.1	1281.4	1098.9	1061.4	1099.9	1079.7	1049.0	1001.9	973.1
7929.6	52.5°	6084.4	3376.5	1197.9	1020.1	1014.4	1052.8	1024.0	995.2	959.6	921.2
8589.6	55°	6474.4	3392.8	1127.7	962.5	982.7	978.8	968.3	942.3	923.1	872.2
9240.8	57.5°	6910.5	3425.5	1070.1	927.9	962.5	920.2	916.4	894.3	869.3	834.7
10035.3	60°	7432.1	3476.4	1020.1	914.5	945.2	881.8	862.6	854.0	829.0	811.7
10991.0	62.5°	8000.7	3522.5	969.2	916.4	925.0	844.4	815.5	812.7	797.3	791.5
11888.2	65°	8388.8	3396.6	905.8	914.5	893.3	805.9	769.4	768.5	756.0	754.1
12277.3	67.5°	8253.4	2998.0	820.3	887.6	860.7	767.5	727.2	723.3	707.0	708.0
11870.9	70°	7575.2	2429.3	702.2	821.3	820.3	732.9	683.0	670.5	648.4	652.2
10321.5	72.5°	6303.4	1800.1	543.7	710.8	756.0	701.2	632.1	611.9	584.0	587.9
7619.4	75°	4552.2	1223.8	395.8	540.8	658.0	663.8	582.1	547.5	513.9	519.7
4241.0	77.5°	2329.4	693.5	291.1	372.7	516.8	603.2	537.0	490.9	483.2	537.0
1222.8	80°	759.8	347.7	201.7	261.3	339.1	493.7	470.7	417.9	415.9	428.4
256.5	82.5°	226.7	147.0	129.7	171.9	187.3	378.5	406.3	316.0	271.8	286.3
85.5	85°	77.8	71.1	74.0	85.5	89.3	221.9	284.3	209.4	197.9	218.1
19.2	87.5°	18.3	25.0	21.1	19.2	19.2	53.8	110.5	87.4	121.0	80.7
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>
2183.4
1726.2
1568.6
1589.8
1643.6
1689.7
1715.6
1711.8
1669.5
1598.4
1521.6
1451.4
1392.9
1366.9
1330.4
1265.1
1145.0
1078.7
1063.4
1020.1
970.2
913.5
873.2
823.2
816.5
791.5
753.1
708.0
656.1
586.9
521.6
529.3
367.9
295.9
215.2
77.8
0.0

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