

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: P947597

Luminaire Tested: **GALN-SB2D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947597
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-SB2D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12553 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

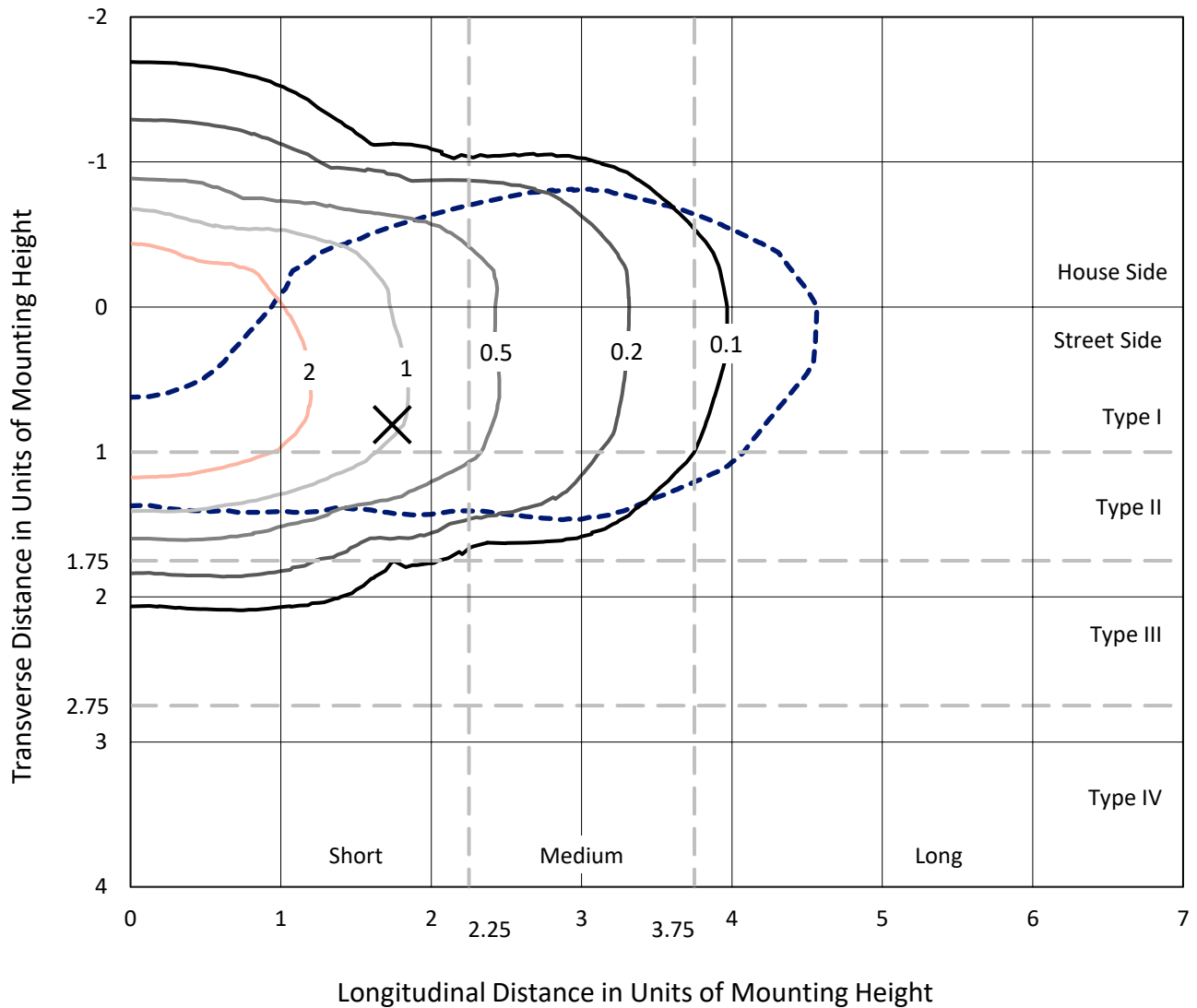
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

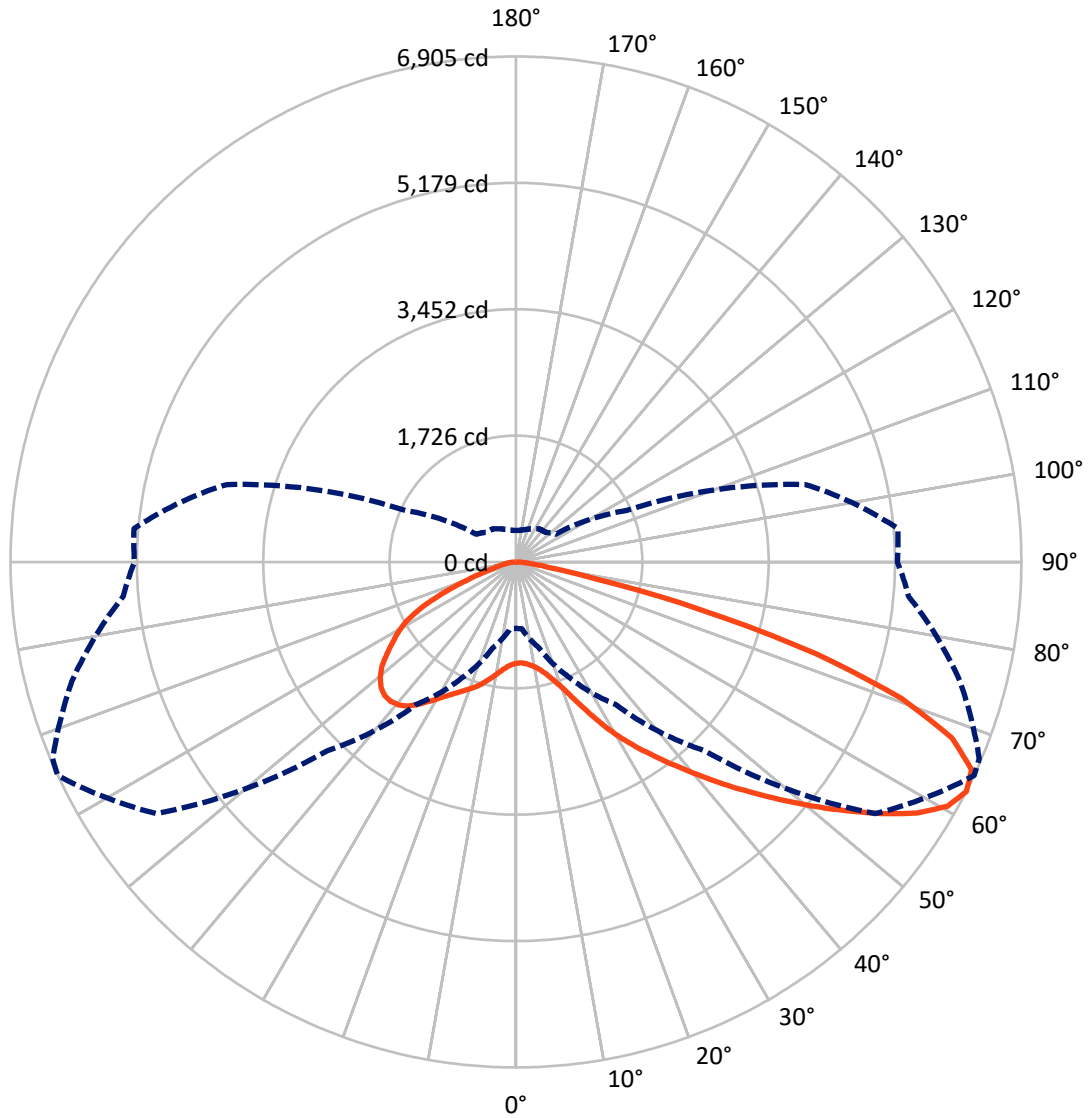
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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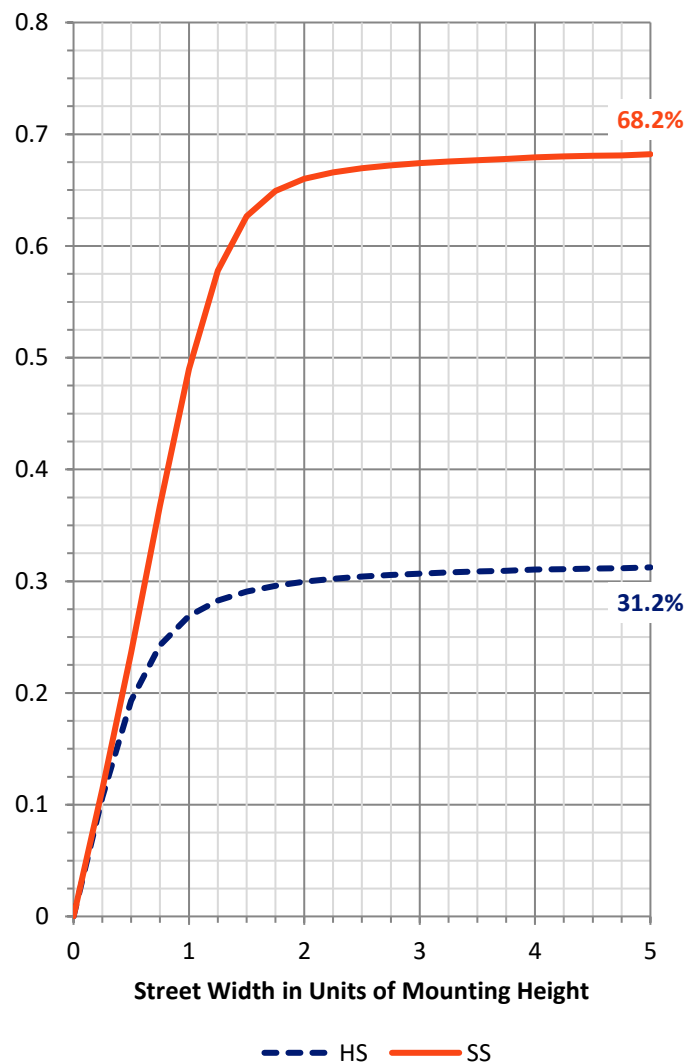
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3961.2	0.0	3961.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8591.8	0.0	8591.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	12553.0	0.0	12553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	467.7	3.7
20°-30°	948.3	7.6
30°-40°	1640.9	13.1
40°-50°	2483.2	19.8
50°-60°	2911.5	23.2
60°-70°	2440.9	19.4
70°-80°	1347.6	10.7
80°-90°	175.0	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°	12553.0	100.0
0°-180°	12553.0	100.0

Coefficient of Utilization



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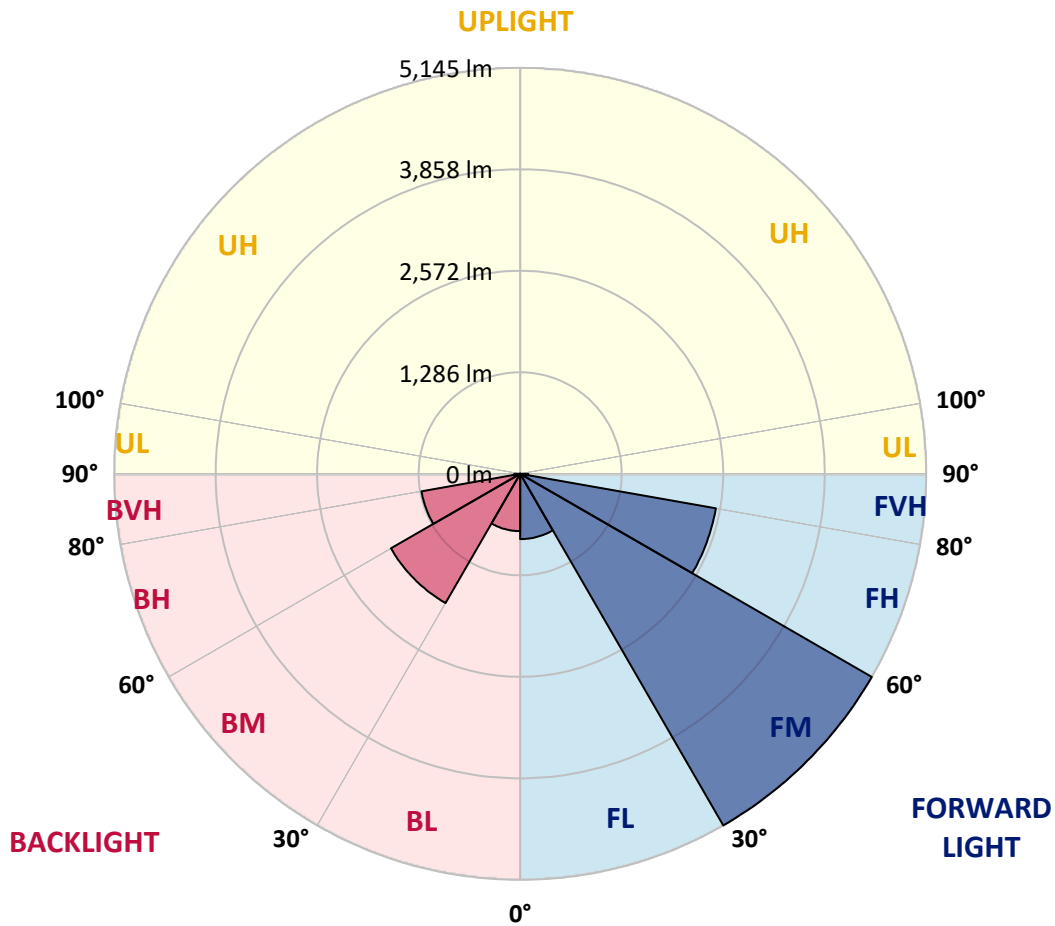
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.4	6.6			
FM (30°-60°)	5144.6	41.0			
FH (60°-80°)	2517.8	20.1			G2/5000
FVH (80°-90°)	102.0	0.8			G2/225
BL (0°-30°)	726.4	5.8	B2/1000		
BM (30°-60°)	1891.0	15.1	B2/2500		
BH (60°-80°)	1270.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	73.0	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°	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3
2.5°	1374.2	1370.3	1373.5	1373.5	1374.8	1374.2	1378.7	1380.0	1382.0	1385.9
5°	1360.5	1359.8	1365.7	1370.9	1376.1	1380.7	1386.5	1395.0	1396.3	1400.9
7.5°	1355.9	1352.0	1361.1	1367.7	1380.0	1391.1	1406.7	1421.1	1426.9	1428.9
10°	1391.1	1384.6	1393.1	1397.0	1407.4	1418.5	1436.7	1459.5	1466.0	1473.8
12.5°	1451.0	1443.9	1456.2	1462.1	1471.9	1481.6	1494.0	1516.1	1519.4	1533.7
15°	1533.1	1524.6	1532.4	1539.6	1555.9	1565.0	1577.4	1598.9	1598.9	1609.9
17.5°	1644.4	1633.4	1639.2	1641.8	1652.3	1665.9	1686.8	1705.7	1715.4	1711.5
20°	1810.5	1796.8	1796.8	1783.8	1779.9	1791.0	1818.3	1844.4	1854.8	1834.6
22.5°	2060.0	2040.4	2029.3	1985.1	1967.5	1968.8	1996.1	2028.0	2036.5	2000.7
25°	2377.1	2346.5	2331.5	2266.4	2226.7	2192.2	2213.6	2254.7	2266.4	2222.1
27.5°	2694.3	2696.2	2681.9	2603.8	2538.0	2474.8	2463.7	2506.7	2519.1	2468.9
30°	3139.1	3092.9	3065.5	2971.7	2877.9	2789.4	2743.8	2761.4	2764.6	2704.7
32.5°	3522.7	3511.0	3452.4	3370.3	3249.8	3111.1	3034.9	3006.9	3001.7	2916.4
35°	3959.7	3953.2	3891.3	3793.6	3663.4	3470.6	3333.2	3253.1	3246.6	3126.7
37.5°	4403.9	4403.9	4343.3	4236.5	4101.7	3860.7	3651.6	3524.6	3503.8	3347.5
40°	4758.1	4736.6	4747.7	4702.8	4548.4	4292.5	4005.3	3821.0	3793.0	3605.4
42.5°	4959.4	4952.2	5018.6	5068.8	5005.6	4801.1	4394.7	4142.0	4103.0	3889.4
45°	5004.3	4996.5	5115.0	5298.7	5387.3	5303.2	4818.1	4480.0	4432.5	4186.3
47.5°	4900.8	4885.1	5059.0	5348.8	5632.8	5780.6	5276.5	4846.7	4777.7	4475.5
50°	4589.5	4574.5	4837.6	5222.5	5715.5	6105.0	5774.1	5235.5	5130.0	4785.5
52.5°	3912.8	3920.0	4332.2	4861.0	5606.7	6306.8	6202.6	5645.2	5518.2	5102.7
55°	3047.9	3063.5	3570.2	4152.5	5171.7	6276.2	6495.1	6067.2	5940.8	5400.9
57.5°	2182.4	2251.4	2726.2	3302.6	4336.1	5791.0	6558.9	6468.4	6345.9	5726.6
60°	1414.5	1426.9	1915.4	2496.3	3301.9	4928.8	6429.3	6772.5	6676.8	6058.7
62.5°	906.6	915.0	1212.7	1746.0	2376.5	3646.4	5992.9	6904.7	6875.4	6278.2
65°	666.2	659.7	814.7	1154.0	1600.8	2248.8	5145.6	6840.9	6898.8	6415.6
67.5°	556.2	547.1	623.3	799.1	1179.4	1277.1	3807.3	6426.0	6638.3	6400.0
70°	506.7	498.9	545.1	593.3	920.2	855.1	1919.3	5586.5	5913.5	6222.2
72.5°	429.2	415.5	478.7	526.9	715.7	655.8	793.2	4291.2	4689.8	5652.3
75°	332.8	323.7	377.7	463.7	537.9	511.9	501.5	2605.7	3040.8	4371.3
77.5°	263.8	251.4	300.9	361.5	483.9	386.2	365.4	1122.1	1553.3	2790.7
80°	198.6	187.6	228.6	285.9	371.9	291.1	236.4	457.8	585.5	1413.9
82.5°	141.3	131.6	159.6	209.7	250.1	261.2	145.2	256.6	288.5	545.1
85°	90.5	84.7	106.8	131.6	158.9	168.0	88.6	134.2	147.2	224.7
87.5°	49.5	40.4	57.3	61.2	73.6	67.1	42.3	48.8	52.8	81.4
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°
1383.3	0°	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3	1383.3
1385.9	2.5°	1388.5	1390.5	1397.0	1398.9	1403.5	1409.3	1413.2	1417.2	1417.2	1421.1
1406.7	5°	1407.4	1411.9	1425.6	1432.8	1444.5	1456.2	1463.4	1471.9	1477.1	1479.7
1439.9	7.5°	1443.9	1451.0	1470.6	1482.9	1503.1	1519.4	1530.5	1542.2	1544.8	1552.0
1486.2	10°	1493.3	1501.8	1524.0	1547.4	1571.5	1591.7	1602.1	1610.6	1613.8	1615.1
1545.5	12.5°	1550.0	1562.4	1591.0	1619.7	1645.1	1662.7	1665.3	1663.3	1654.2	1646.4
1618.4	15°	1619.7	1630.8	1662.7	1693.9	1718.7	1721.9	1705.7	1695.2	1684.2	1682.2
1699.8	17.5°	1703.1	1708.9	1738.2	1768.8	1770.8	1759.7	1735.6	1725.9	1715.4	1708.3
1806.0	20°	1800.1	1798.1	1819.0	1832.0	1818.3	1784.5	1748.0	1731.7	1721.3	1712.8
1936.2	22.5°	1916.0	1901.0	1898.4	1895.2	1858.7	1787.7	1738.2	1717.4	1701.1	1689.4
2117.9	25°	2084.7	2027.4	1987.7	1965.5	1883.5	1770.1	1707.0	1660.7	1630.1	1609.9
2340.0	27.5°	2295.7	2199.3	2099.0	2045.0	1883.5	1734.3	1631.4	1556.5	1506.4	1485.5
2554.9	30°	2496.9	2396.0	2248.2	2140.7	1878.9	1675.7	1509.6	1405.4	1346.8	1326.0
2738.6	32.5°	2668.9	2558.8	2406.4	2245.6	1867.8	1580.6	1358.5	1243.3	1186.6	1161.9
2920.3	35°	2828.4	2711.2	2565.3	2360.8	1838.5	1441.2	1192.5	1104.5	1041.4	1001.6
3105.2	37.5°	2991.9	2852.5	2715.8	2465.0	1785.8	1278.4	1064.8	989.9	915.7	862.3
3301.9	40°	3169.7	3003.0	2876.6	2526.9	1699.1	1123.4	965.8	897.4	818.6	762.0
3528.6	42.5°	3377.5	3183.4	3055.7	2558.8	1580.6	1013.4	901.4	834.3	760.0	713.8
3771.5	45°	3594.3	3382.0	3219.2	2558.2	1448.4	961.9	880.5	814.1	732.0	683.8
4020.9	47.5°	3821.6	3589.8	3360.5	2516.5	1333.8	969.1	868.8	770.4	679.9	633.0
4272.9	50°	4049.6	3817.1	3497.3	2438.3	1284.9	953.5	825.2	709.2	602.4	560.1
4509.4	52.5°	4275.6	4058.7	3615.2	2327.0	1235.4	895.5	769.1	629.8	570.5	541.2
4753.6	55°	4502.8	4297.7	3743.5	2164.8	1111.7	827.8	675.4	599.8	545.1	518.4
4992.6	57.5°	4730.8	4573.8	3865.3	2002.6	956.1	744.4	623.9	563.3	519.7	496.9
5192.5	60°	4967.8	4889.7	3990.9	1853.5	802.4	637.6	586.1	534.0	489.8	464.4
5384.7	62.5°	5212.1	5237.5	4089.3	1661.4	661.0	572.5	552.3	498.9	455.9	431.8
5543.6	65°	5458.2	5572.9	4153.8	1395.0	536.0	510.6	515.8	460.4	416.8	396.0
5660.1	67.5°	5643.9	5814.5	4135.5	1055.7	439.6	452.0	470.2	420.1	379.0	362.8
5641.3	70°	5664.7	5785.8	3955.8	722.9	368.0	394.7	419.4	380.3	338.0	326.3
5375.5	72.5°	5387.3	5395.1	3455.0	472.2	311.3	346.5	366.0	340.0	298.9	287.2
4702.8	75°	4659.8	4461.8	2536.7	311.3	260.5	297.6	315.9	297.6	257.9	260.5
3518.8	77.5°	3530.5	3159.9	1540.2	221.4	217.5	250.1	274.8	261.8	227.9	255.9
1769.5	80°	1819.0	1709.6	687.1	165.4	171.9	199.9	226.0	209.1	180.4	171.9
395.3	82.5°	416.8	484.5	270.9	118.5	124.4	143.9	172.6	157.0	129.6	109.4
164.8	85°	145.9	159.6	119.8	74.2	72.9	89.9	117.2	104.9	87.9	70.3
69.7	87.5°	46.2	60.6	44.9	30.0	31.3	40.4	54.1	49.5	41.0	26.7
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>
1383.3
1421.1
1481.0
1549.4
1611.9
1646.4
1682.2
1708.9
1713.5
1693.3
1617.7
1496.0
1338.3
1174.2
1014.7
876.6
773.1
722.9
691.6
639.5
562.7
541.2
515.8
493.0
462.4
431.1
395.3
363.4
326.9
286.6
251.4
225.3
157.0
108.1
74.2
28.0
0.0

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