

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: P949632

Luminaire Tested: **GALN-SB4B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949632
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-SB4B-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19988 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

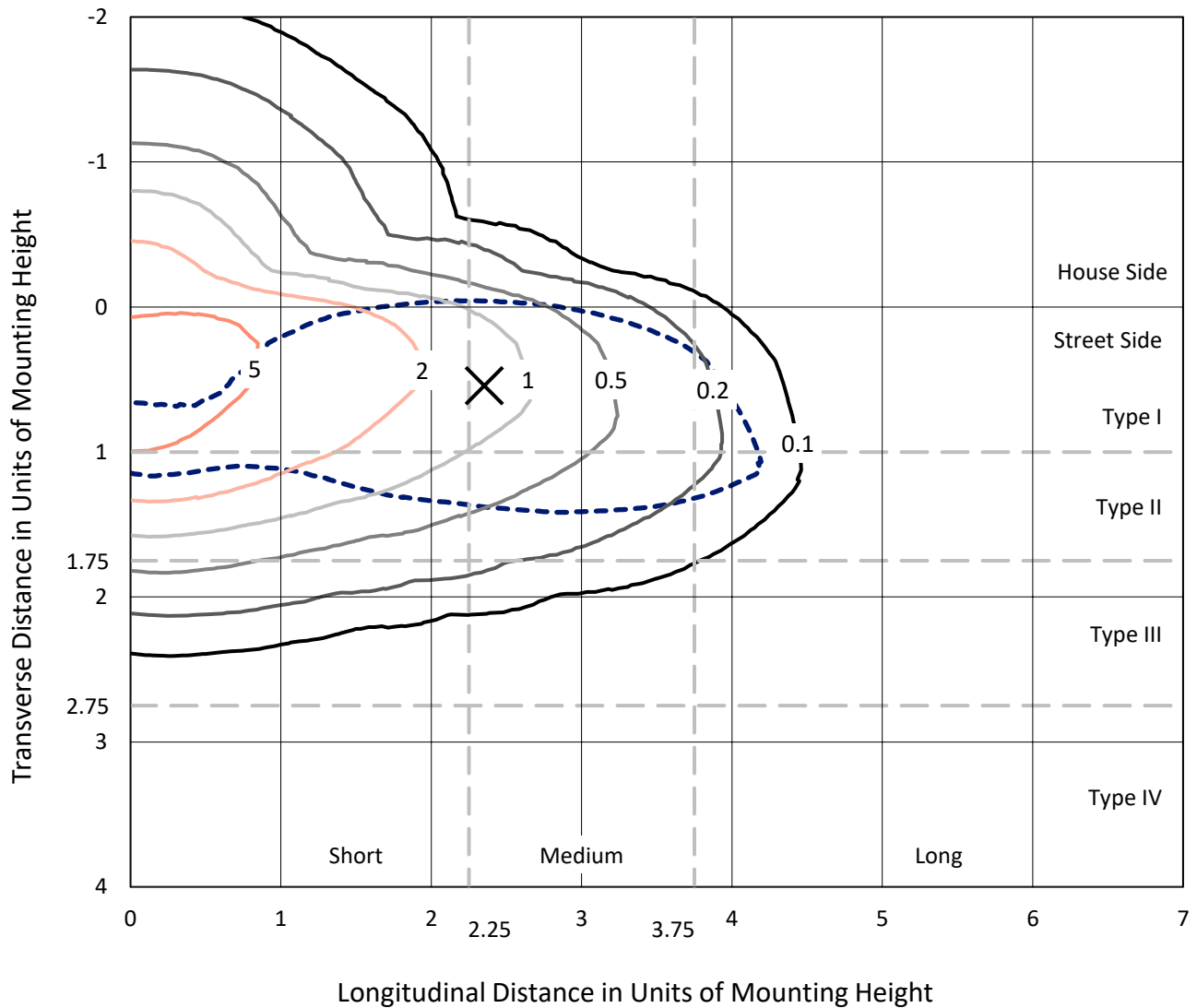
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

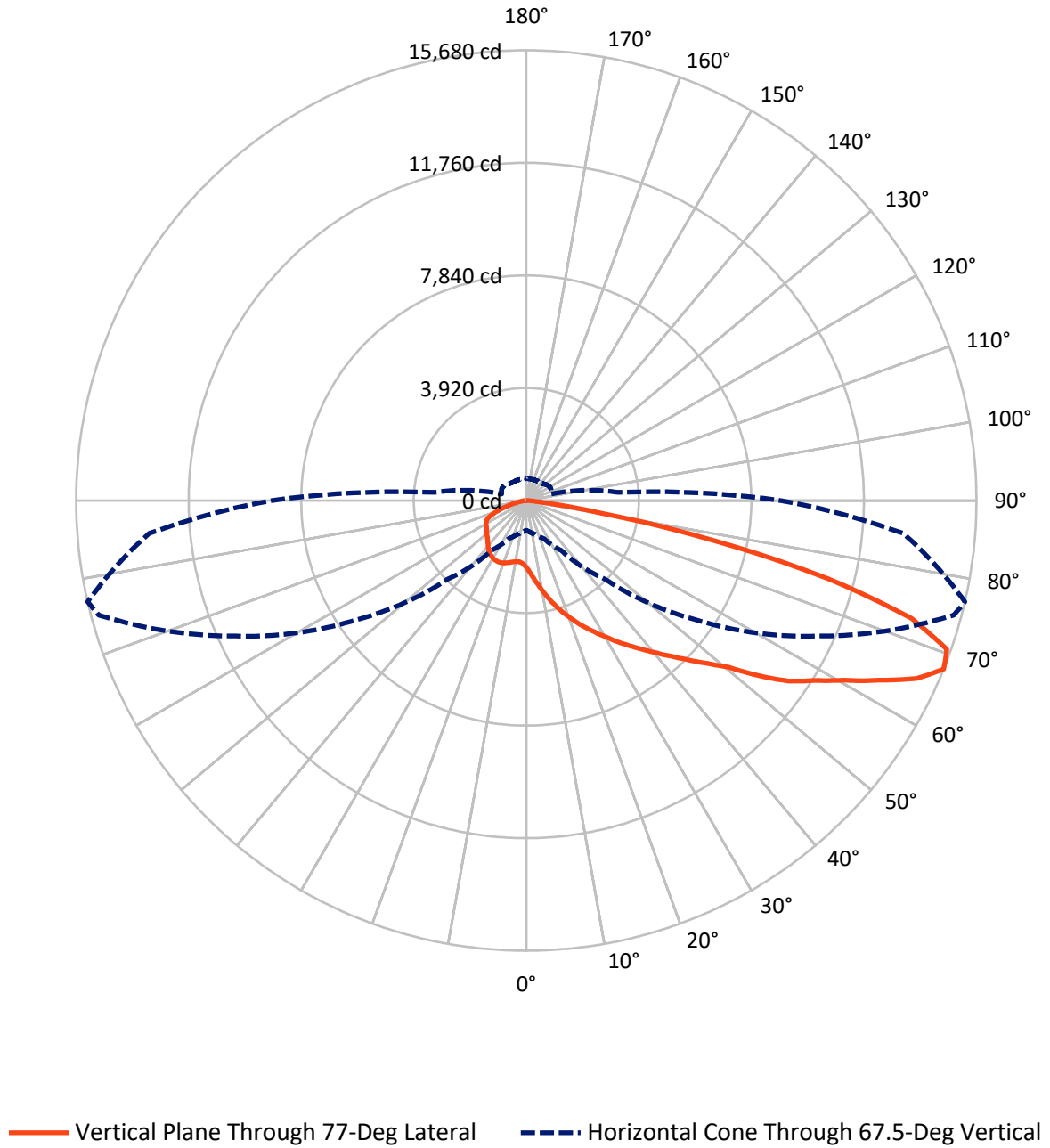
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4B-827-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3780.9	0.0	3780.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16207.1	0.0	16207.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	19988.0	0.0	19988.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.3
10°-20°	903.1	4.5
20°-30°	1705.1	8.5
30°-40°	2746.9	13.7
40°-50°	3757.3	18.8
50°-60°	4238.2	21.2
60°-70°	3955.9	19.8
70°-80°	2168.5	10.8
80°-90°	261.6	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°	19988.0	100.0
0°-180°	19988.0	100.0



REPORT NUMBER: P949632

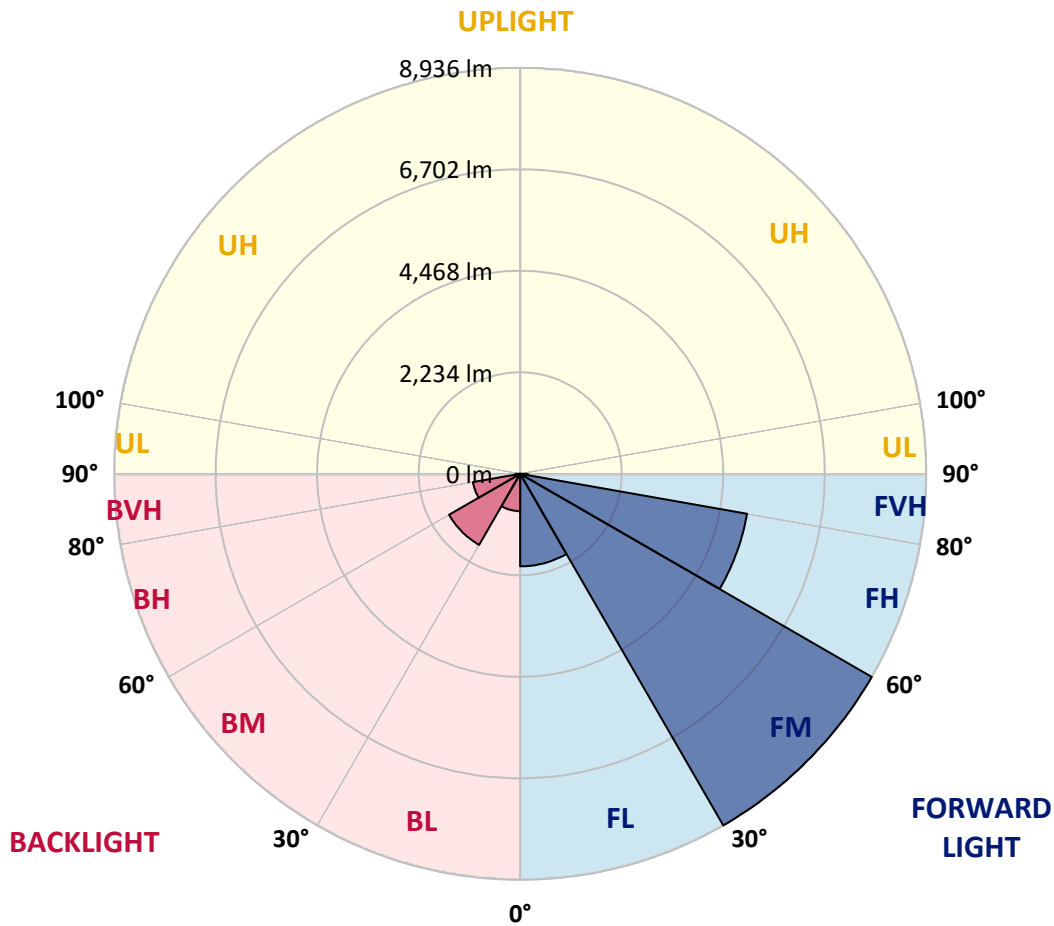
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2037.5	10.2			
FM (30°-60°)	8936.4	44.7			
FH (60°-80°)	5069.5	25.4			G3/7500
FVH (80°-90°)	163.6	0.8			G2/225
BL (0°-30°)	822.1	4.1	B2/1000		
BM (30°-60°)	1806.1	9.0	B2/2500		
BH (60°-80°)	1054.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	98.0	0.5			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



REPORT NUMBER: P949632
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2.5°	2936.4	2957.1	2931.3	2931.3	2844.6	2799.2	2712.5	2646.5	2527.8	2507.2
5°	3470.9	3496.7	3460.6	3445.1	3342.9	3249.0	3103.6	2960.1	2748.6	2727.0
7.5°	3884.6	3917.6	3885.6	3869.1	3778.3	3673.1	3502.9	3302.7	3004.5	2962.2
10°	4222.0	4227.2	4216.8	4223.0	4151.8	4065.2	3890.8	3657.6	3285.2	3227.4
12.5°	4412.9	4436.6	4457.2	4494.4	4482.0	4428.4	4271.5	3993.0	3582.3	3508.0
15°	4502.6	4543.9	4590.3	4676.0	4745.1	4758.5	4638.8	4353.0	3884.6	3794.9
17.5°	4534.6	4573.8	4647.1	4770.9	4919.5	5019.6	4965.9	4702.8	4183.8	4080.7
20°	4696.6	4708.0	4752.3	4870.0	5030.9	5197.0	5237.3	5039.2	4479.9	4363.4
22.5°	5043.3	5020.6	5033.0	5086.6	5202.2	5363.1	5455.0	5336.3	4784.3	4650.2
25°	5615.9	5549.9	5483.9	5422.0	5480.8	5571.6	5675.8	5633.5	5103.1	4932.9
27.5°	6339.2	6258.7	6113.2	5910.0	5838.8	5870.8	5917.2	5908.9	5398.2	5225.9
30°	7051.1	6957.2	6783.9	6489.8	6302.1	6217.4	6182.4	6158.6	5719.1	5535.4
32.5°	7619.6	7545.3	7375.1	7046.0	6773.6	6629.1	6512.5	6427.9	6054.4	5870.8
35°	8116.9	8047.8	7852.8	7493.7	7197.6	7043.9	6891.2	6710.6	6403.2	6217.4
37.5°	8570.9	8501.8	8234.6	7861.1	7562.9	7456.6	7320.4	7014.0	6752.9	6577.5
40°	8857.7	8842.3	8592.6	8169.6	7860.0	7807.4	7762.0	7365.8	7140.9	6977.9
42.5°	8931.0	8965.1	8767.0	8419.2	8124.2	8081.9	8188.1	7764.1	7576.3	7420.5
45°	8754.6	8852.6	8722.6	8486.3	8311.9	8289.2	8565.8	8199.5	8058.1	7915.7
47.5°	8307.8	8473.9	8420.3	8387.3	8362.5	8460.5	8898.0	8661.7	8603.9	8480.1
50°	7406.0	7720.7	7814.6	8023.0	8262.4	8593.6	9200.3	9166.2	9241.6	9116.7
52.5°	5847.0	6280.4	6825.2	7347.2	7954.9	8549.2	9532.5	9890.5	10208.3	10140.2
55°	4826.6	5021.6	5440.5	6398.0	7358.6	8362.5	9682.1	10475.6	11167.9	11107.0
57.5°	4042.5	4216.8	4474.8	5274.4	6456.8	7938.4	9775.0	10832.6	11825.1	11818.9
60°	3201.6	3386.3	3650.4	4216.8	5403.4	7205.9	9754.4	11239.1	12663.9	12715.5
62.5°	2252.4	2455.6	2748.6	3276.9	4327.2	6256.7	9333.4	11533.1	13651.3	13791.7
65°	1480.6	1614.7	1835.5	2291.6	3224.3	5036.1	8529.6	11571.3	14707.9	14945.2
67.5°	1038.0	1089.5	1219.6	1467.2	2125.4	3861.9	7249.2	11176.1	15412.6	15679.8
70°	809.9	835.7	901.8	1000.8	1335.1	2597.0	5555.1	10148.5	15261.9	15540.5
72.5°	699.5	724.3	749.1	761.4	895.6	1603.4	3762.9	8485.3	13843.3	14032.1
75°	634.5	640.7	661.4	657.2	683.0	1040.0	2171.9	6182.4	10922.3	10857.3
77.5°	533.4	541.7	575.7	570.6	606.7	710.9	1127.7	3989.9	7081.0	6639.4
80°	451.9	456.0	493.2	487.0	527.2	514.9	575.7	2033.6	3003.5	2544.3
82.5°	156.8	194.0	376.6	387.9	402.4	311.6	332.2	829.5	917.2	702.6
85°	76.4	81.5	191.9	272.4	271.4	156.8	162.0	296.1	288.9	227.0
87.5°	12.4	15.5	22.7	106.3	84.6	41.3	55.7	57.8	59.8	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949632
 CATALOG NUMBER: GALN-SB4B-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2345.2	0°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2428.8	2.5°	2371.0	2319.4	2211.1	2111.0	2032.6	1957.3	1915.0	1878.9	1858.2	1854.1
2542.3	5°	2435.0	2328.7	2131.6	1965.5	1857.2	1776.7	1734.4	1707.6	1694.2	1685.9
2695.0	7.5°	2526.8	2371.0	2090.4	1901.6	1788.1	1730.3	1708.6	1704.5	1703.5	1704.5
2879.7	10°	2653.7	2440.1	2086.2	1886.1	1791.2	1759.2	1758.1	1759.2	1763.3	1764.3
3080.9	12.5°	2790.9	2511.3	2102.7	1899.5	1830.4	1812.8	1809.7	1808.7	1811.8	1813.9
3284.1	15°	2940.5	2605.2	2130.6	1928.4	1873.7	1855.1	1852.0	1845.8	1844.8	1843.8
3497.7	17.5°	3094.3	2698.1	2161.6	1959.3	1901.6	1875.8	1864.4	1850.0	1838.6	1835.5
3718.5	20°	3250.1	2789.9	2183.2	1974.8	1903.6	1867.5	1844.8	1820.0	1800.4	1789.1
3941.4	22.5°	3416.2	2885.9	2196.6	1970.7	1885.0	1835.5	1794.2	1765.4	1735.4	1715.8
4166.3	25°	3578.2	2969.4	2195.6	1949.0	1848.9	1786.0	1733.4	1696.2	1655.0	1634.3
4398.4	27.5°	3734.0	3044.8	2169.8	1910.8	1797.3	1727.2	1664.2	1619.9	1579.6	1560.0
4632.6	30°	3894.9	3107.7	2129.6	1855.1	1736.5	1659.1	1590.0	1551.8	1515.7	1497.1
4880.3	32.5°	4054.9	3165.5	2072.8	1786.0	1666.3	1592.0	1523.9	1488.8	1467.2	1467.2
5146.5	35°	4224.1	3205.7	1997.5	1705.5	1592.0	1520.8	1467.2	1446.5	1444.5	1432.1
5428.1	37.5°	4402.6	3231.5	1905.7	1623.0	1518.8	1451.7	1435.2	1410.4	1389.8	1363.0
5737.7	40°	4590.3	3257.3	1795.3	1537.3	1441.4	1404.2	1397.0	1364.0	1305.2	1239.2
6088.5	42.5°	4818.4	3274.8	1680.8	1451.7	1359.9	1347.5	1357.8	1301.1	1207.2	1157.6
6511.5	45°	5082.5	3303.7	1575.5	1367.1	1276.3	1276.3	1319.6	1245.3	1168.0	1137.0
6994.4	47.5°	5425.0	3370.8	1477.5	1274.2	1198.9	1219.6	1235.0	1178.3	1134.9	1096.8
7582.5	50°	5920.3	3531.7	1376.4	1180.3	1140.1	1181.4	1159.7	1126.7	1076.1	1045.2
8517.3	52.5°	6535.2	3626.7	1286.6	1095.7	1089.5	1130.8	1099.9	1068.9	1030.7	989.5
9226.1	55°	6954.1	3644.2	1211.3	1033.8	1055.5	1051.4	1040.0	1012.2	991.5	936.8
9925.6	57.5°	7422.6	3679.3	1149.4	996.7	1033.8	988.4	984.3	960.6	933.8	896.6
10778.9	60°	7982.8	3734.0	1095.7	982.2	1015.3	947.2	926.5	917.2	890.4	871.8
11805.5	62.5°	8593.6	3783.5	1041.1	984.3	993.6	906.9	876.0	872.9	856.4	850.2
12769.2	65°	9010.4	3648.3	973.0	982.2	959.5	865.7	826.4	825.4	812.0	809.9
13187.1	67.5°	8865.0	3220.2	881.1	953.4	924.5	824.4	781.0	776.9	759.4	760.4
12750.6	70°	8136.5	2609.3	754.2	882.2	881.1	787.2	733.6	720.2	696.4	700.6
11086.4	72.5°	6770.5	1933.5	584.0	763.5	812.0	753.2	678.9	657.2	627.3	631.4
8184.0	75°	4889.6	1314.5	425.1	580.9	706.8	713.0	625.3	588.1	552.0	558.2
4555.3	77.5°	2502.0	744.9	312.6	400.3	555.1	648.0	576.8	527.2	519.0	576.8
1313.4	80°	816.1	373.5	216.7	280.6	364.2	530.3	505.6	448.8	446.8	460.2
275.5	82.5°	243.5	157.9	139.3	184.7	201.2	406.5	436.4	339.5	292.0	307.5
91.8	85°	83.6	76.4	79.4	91.8	96.0	238.3	305.4	224.9	212.5	234.2
20.6	87.5°	19.6	26.8	22.7	20.6	20.6	57.8	118.7	93.9	130.0	86.7
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>
2345.2
1854.1
1684.9
1707.6
1765.4
1814.9
1842.7
1838.6
1793.2
1716.9
1634.3
1559.0
1496.1
1468.2
1429.0
1358.8
1229.9
1158.7
1142.2
1095.7
1042.1
981.2
937.9
884.2
877.0
850.2
808.9
760.4
704.7
630.4
560.3
568.5
395.2
317.8
231.1
83.6
0.0

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