

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: P947574

Luminaire Tested: **GALN-SB2D-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947574
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-SB2D-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19827 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

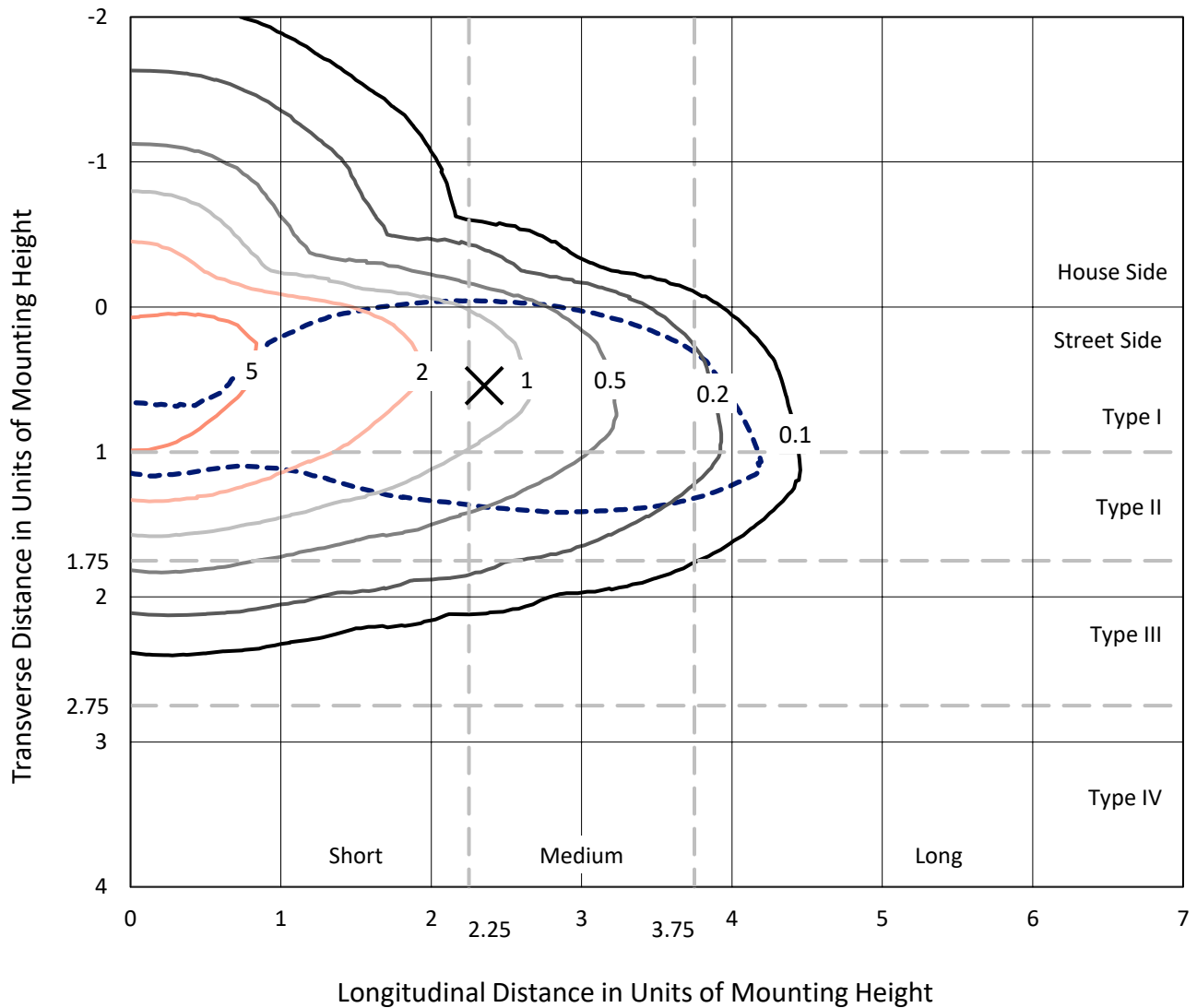
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947574
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Iso-Footcandle Lines of Horizontal Illumination

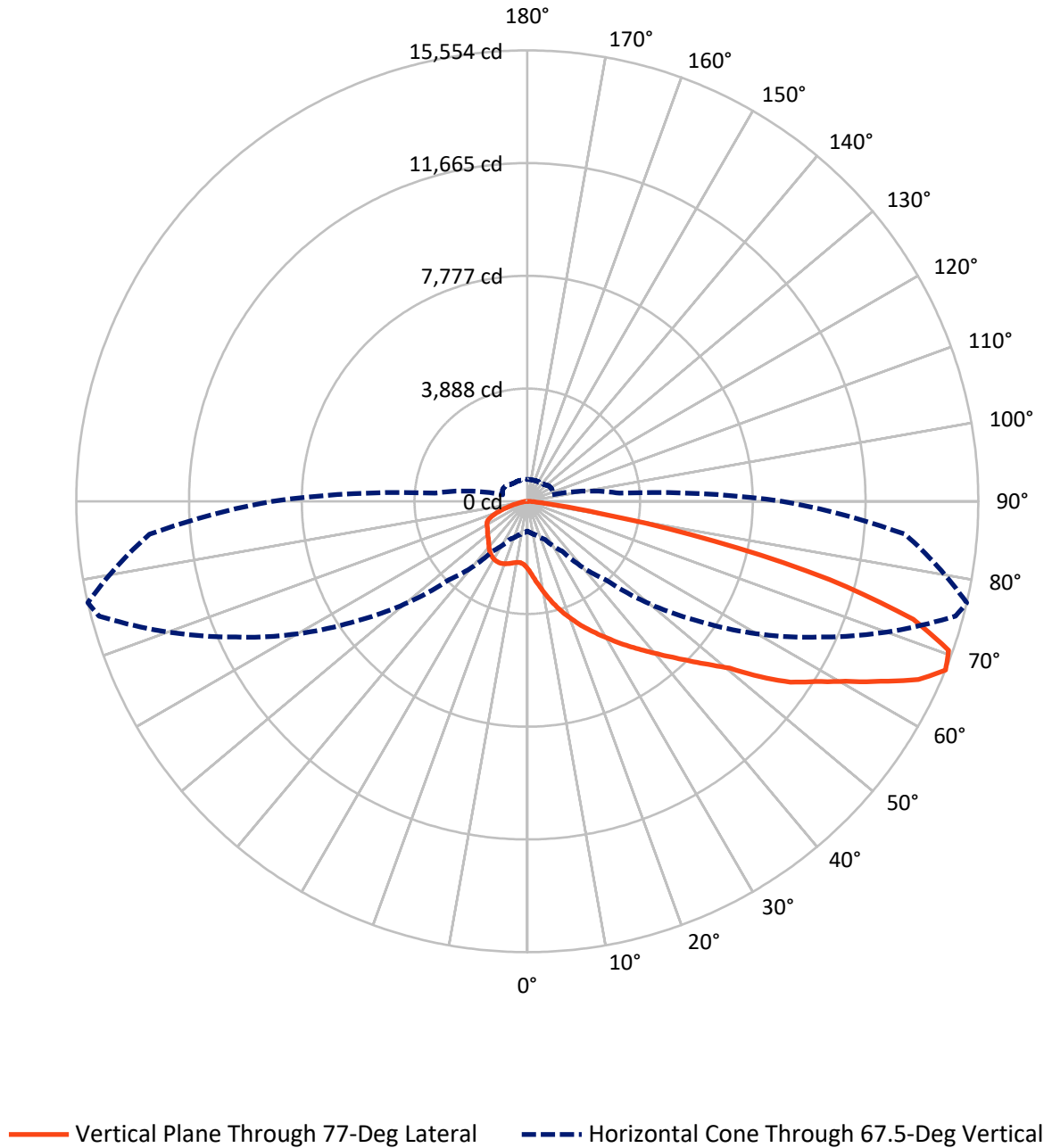
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P947574
CATALOG NUMBER: GALN-SB2D-850-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3750.5	0.0	3750.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16076.5	0.0	16076.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	19827.0	0.0	19827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	1.3
10°-20°	895.8	4.5
20°-30°	1691.4	8.5
30°-40°	2724.8	13.7
40°-50°	3727.0	18.8
50°-60°	4204.1	21.2
60°-70°	3924.0	19.8
70°-80°	2151.0	10.8
80°-90°	259.5	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°	19827.0	100.0
0°-180°	19827.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947574

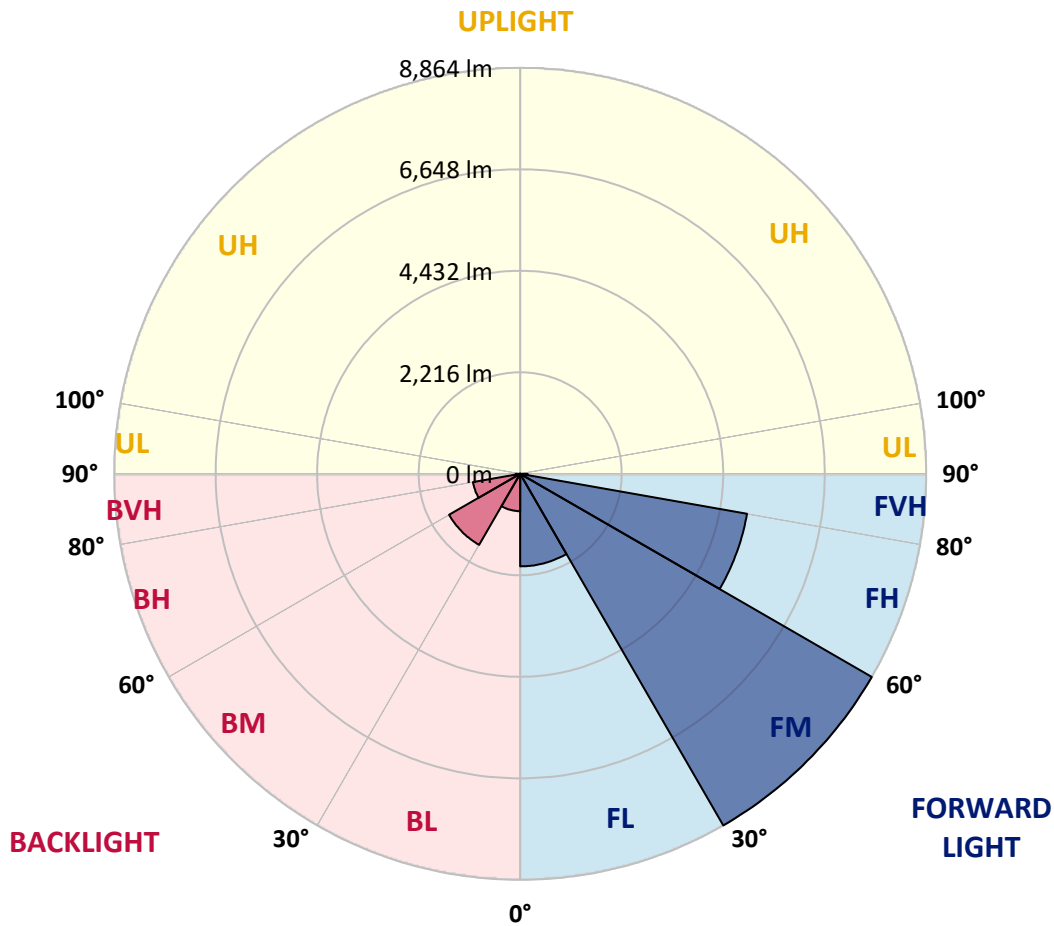
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.1	10.2			
FM (30°-60°)	8864.4	44.7			
FH (60°-80°)	5028.7	25.4			G3/7500
FVH (80°-90°)	162.3	0.8			G2/225
BL (0°-30°)	815.4	4.1	B2/1000		
BM (30°-60°)	1791.5	9.0	B2/2500		
BH (60°-80°)	1046.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P947574
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3
2.5°	2912.8	2933.2	2907.6	2907.6	2821.7	2776.6	2690.7	2625.2	2507.5	2487.0
5°	3442.9	3468.5	3432.7	3417.3	3316.0	3222.9	3078.6	2936.3	2726.5	2705.0
7.5°	3853.3	3886.1	3854.3	3838.0	3747.9	3643.5	3474.6	3276.1	2980.3	2938.4
10°	4188.0	4193.1	4182.9	4189.0	4118.4	4032.4	3859.5	3628.2	3258.7	3201.4
12.5°	4377.3	4400.9	4421.3	4458.2	4445.9	4392.7	4237.1	3960.8	3553.5	3479.8
15°	4466.4	4507.3	4553.4	4638.3	4706.9	4720.2	4601.5	4318.0	3853.3	3764.3
17.5°	4498.1	4537.0	4609.7	4732.5	4879.9	4979.1	4925.9	4664.9	4150.1	4047.8
20°	4658.8	4670.0	4714.1	4830.7	4990.4	5155.2	5195.1	4998.6	4443.9	4328.2
22.5°	5002.7	4980.2	4992.4	5045.7	5160.3	5319.9	5411.0	5293.3	4745.8	4612.7
25°	5570.7	5505.2	5439.7	5378.3	5436.6	5526.7	5630.0	5588.1	5062.0	4893.2
27.5°	6288.1	6208.3	6064.0	5862.4	5791.8	5823.5	5869.5	5861.4	5354.7	5183.8
30°	6994.3	6901.2	6729.2	6437.6	6251.3	6167.4	6132.6	6109.0	5673.0	5490.9
32.5°	7558.2	7484.6	7315.7	6989.2	6719.0	6575.7	6460.1	6376.2	6005.7	5823.5
35°	8051.6	7983.0	7789.5	7433.4	7139.7	6987.2	6835.7	6656.6	6351.6	6167.4
37.5°	8501.9	8433.3	8168.2	7797.7	7502.0	7396.5	7261.4	6957.5	6698.5	6524.6
40°	8786.4	8771.0	8523.4	8103.8	7796.7	7744.5	7699.5	7306.5	7083.4	6921.7
42.5°	8859.1	8892.8	8696.3	8351.4	8058.7	8016.8	8122.2	7701.5	7515.3	7360.7
45°	8684.1	8781.3	8652.3	8418.0	8245.0	8222.5	8496.8	8133.4	7993.2	7852.0
47.5°	8240.9	8405.7	8352.5	8319.7	8295.1	8392.4	8826.3	8591.9	8534.6	8411.8
50°	7346.4	7658.5	7751.7	7958.4	8195.9	8524.4	9126.2	9092.4	9167.1	9043.3
52.5°	5799.9	6229.8	6770.2	7288.1	7890.9	8480.4	9455.7	9810.9	10126.1	10058.6
55°	4787.7	4981.2	5396.7	6346.5	7299.3	8295.1	9604.1	10391.2	11077.9	11017.5
57.5°	4009.9	4182.9	4438.7	5231.9	6404.8	7874.5	9696.3	10745.3	11729.9	11723.7
60°	3175.8	3359.0	3621.0	4182.9	5359.9	7147.8	9675.8	11148.5	12561.9	12613.1
62.5°	2234.2	2435.8	2726.5	3250.5	4292.4	6206.3	9258.2	11440.2	13541.4	13680.6
65°	1468.7	1601.7	1820.7	2273.1	3198.3	4995.5	8460.9	11478.1	14589.4	14824.8
67.5°	1029.6	1080.8	1209.7	1455.4	2108.3	3830.8	7190.8	11086.1	15288.4	15553.5
70°	803.4	829.0	894.5	992.8	1324.4	2576.0	5510.3	10066.7	15139.0	15415.3
72.5°	693.9	718.5	743.0	755.3	888.4	1590.5	3732.6	8416.9	13731.8	13919.0
75°	629.4	635.6	656.0	651.9	677.5	1031.6	2154.4	6132.6	10834.3	10769.9
77.5°	529.1	537.3	571.1	566.0	601.8	705.2	1118.6	3957.7	7024.0	6586.0
80°	448.3	452.4	489.2	483.1	523.0	510.7	571.1	2017.2	2979.3	2523.9
82.5°	155.6	192.4	373.6	384.8	399.1	309.1	329.6	822.9	909.9	697.0
85°	75.7	80.9	190.4	270.2	269.2	155.6	160.7	293.7	286.6	225.2
87.5°	12.3	15.4	22.5	105.4	83.9	40.9	55.3	57.3	59.4	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947574
 CATALOG NUMBER: GALN-SB2D-850-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2326.3	0°	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3	2326.3
2409.2	2.5°	2351.9	2300.7	2193.3	2094.0	2016.2	1941.5	1899.5	1863.7	1843.3	1839.2
2521.8	5°	2415.4	2309.9	2114.5	1949.7	1842.2	1762.4	1720.4	1693.8	1680.5	1672.3
2673.3	7.5°	2506.5	2351.9	2073.5	1886.2	1773.7	1716.3	1694.8	1690.8	1689.7	1690.8
2856.5	10°	2632.3	2420.5	2069.4	1870.9	1776.7	1745.0	1744.0	1745.0	1749.1	1750.1
3056.0	12.5°	2768.5	2491.1	2085.8	1884.2	1815.6	1798.2	1795.1	1794.1	1797.2	1799.2
3257.7	15°	2916.9	2584.2	2113.4	1912.8	1858.6	1840.2	1837.1	1831.0	1829.9	1828.9
3469.5	17.5°	3069.4	2676.3	2144.1	1943.5	1886.2	1860.6	1849.4	1835.1	1823.8	1820.7
3688.5	20°	3223.9	2767.4	2165.6	1958.9	1888.3	1852.5	1829.9	1805.4	1785.9	1774.7
3909.6	22.5°	3388.7	2862.6	2178.9	1954.8	1869.9	1820.7	1779.8	1751.1	1721.5	1702.0
4132.7	25°	3549.4	2945.5	2177.9	1933.3	1834.0	1771.6	1719.4	1682.6	1641.6	1621.2
4363.0	27.5°	3703.9	3020.2	2152.3	1895.4	1782.9	1713.3	1650.8	1606.8	1566.9	1547.5
4595.3	30°	3863.6	3082.7	2112.4	1840.2	1722.5	1645.7	1577.2	1539.3	1503.5	1485.0
4841.0	32.5°	4022.2	3140.0	2056.1	1771.6	1652.9	1579.2	1511.6	1476.9	1455.4	1455.4
5105.0	35°	4190.0	3179.9	1981.4	1691.8	1579.2	1508.6	1455.4	1434.9	1432.8	1420.6
5384.4	37.5°	4367.1	3205.5	1890.3	1609.9	1506.5	1440.0	1423.6	1399.1	1378.6	1352.0
5691.5	40°	4553.4	3231.1	1780.8	1525.0	1429.8	1392.9	1385.8	1353.0	1294.7	1229.2
6039.4	42.5°	4779.6	3248.5	1667.2	1440.0	1348.9	1336.6	1346.9	1290.6	1197.4	1148.3
6459.1	45°	5041.6	3277.1	1562.8	1356.1	1266.0	1266.0	1309.0	1235.3	1158.6	1127.9
6938.0	47.5°	5381.3	3343.6	1465.6	1264.0	1189.3	1209.7	1225.1	1168.8	1125.8	1087.9
7521.4	50°	5872.6	3503.3	1365.3	1170.8	1130.9	1171.9	1150.4	1117.6	1067.5	1036.8
8448.7	52.5°	6482.6	3597.5	1276.3	1086.9	1080.8	1121.7	1091.0	1060.3	1022.4	981.5
9151.8	55°	6898.1	3614.9	1201.5	1025.5	1047.0	1042.9	1031.6	1004.0	983.5	929.3
9845.7	57.5°	7362.8	3649.7	1140.1	988.7	1025.5	980.5	976.4	952.8	926.2	889.4
10692.1	60°	7918.5	3703.9	1086.9	974.3	1007.1	939.5	919.1	909.9	883.2	864.8
11710.4	62.5°	8524.4	3753.0	1032.7	976.4	985.6	899.6	868.9	865.8	849.5	843.3
12666.3	65°	8937.9	3619.0	965.1	974.3	951.8	858.7	819.8	818.8	805.5	803.4
13080.8	67.5°	8793.6	3194.2	874.0	945.7	917.0	817.7	774.8	770.7	753.3	754.3
12647.9	70°	8071.0	2588.3	748.1	875.1	874.0	780.9	727.7	714.4	690.8	694.9
10997.1	72.5°	6715.9	1918.0	579.3	757.4	805.5	747.1	673.4	651.9	622.3	626.4
8118.1	75°	4850.2	1303.9	421.7	576.2	701.1	707.2	620.2	583.4	547.6	553.7
4518.6	77.5°	2481.9	738.9	310.1	397.1	550.6	642.7	572.1	523.0	514.8	572.1
1302.9	80°	809.6	370.5	214.9	278.4	361.3	526.1	501.5	445.2	443.2	456.5
273.3	82.5°	241.5	156.6	138.2	183.2	199.6	403.2	432.9	336.7	289.6	305.0
91.1	85°	82.9	75.7	78.8	91.1	95.2	236.4	302.9	223.1	210.8	232.3
20.5	87.5°	19.4	26.6	22.5	20.5	20.5	57.3	117.7	93.1	129.0	86.0
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>
2326.3
1839.2
1671.3
1693.8
1751.1
1800.3
1827.9
1823.8
1778.8
1703.0
1621.2
1546.4
1484.0
1456.4
1417.5
1347.9
1220.0
1149.3
1133.0
1086.9
1033.7
973.3
930.3
877.1
869.9
843.3
802.4
754.3
699.0
625.3
555.7
563.9
392.0
315.2
229.3
82.9
0.0

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