

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: P950178

Luminaire Tested: **GALN-SB4C-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950178  
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-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

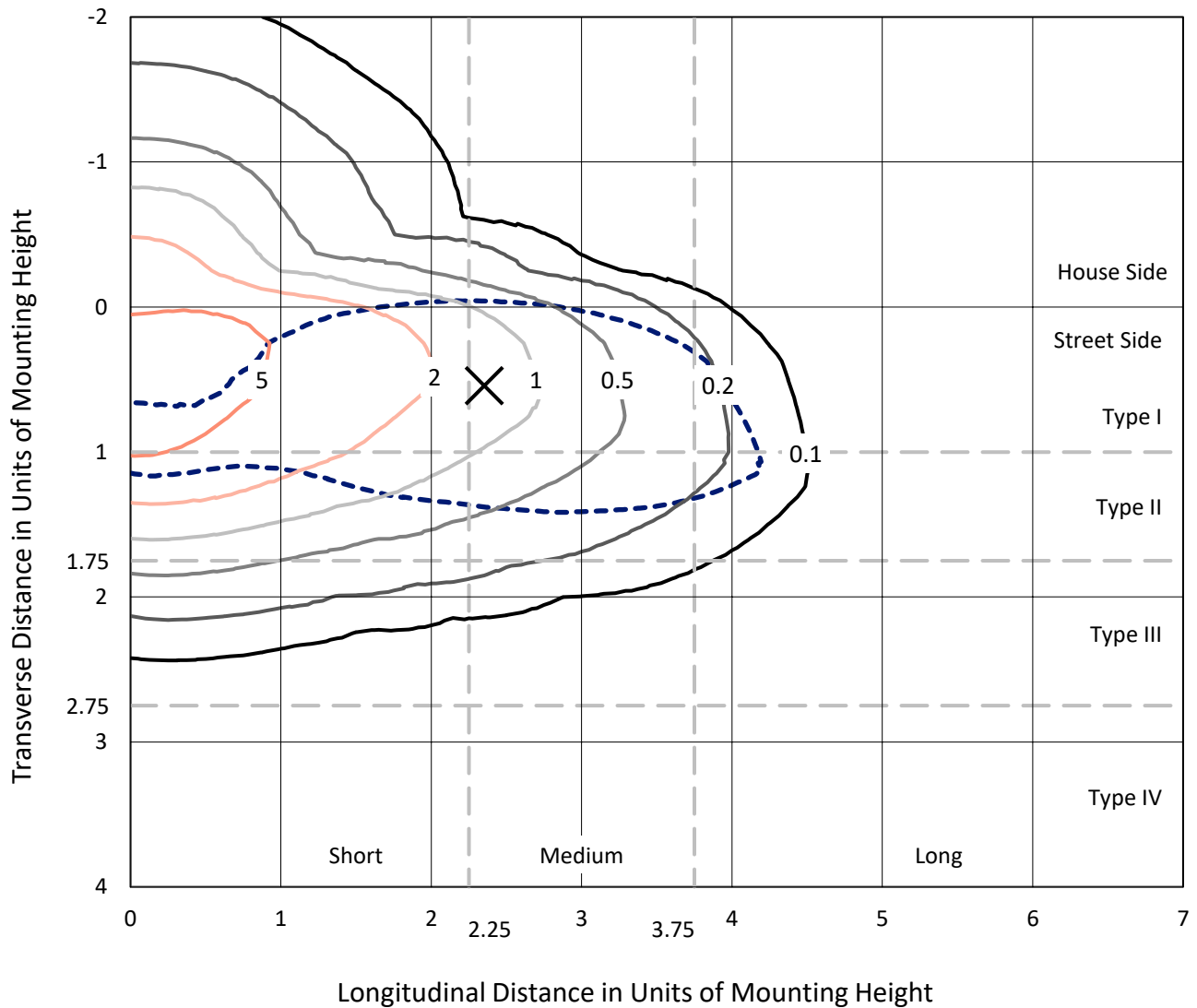
Lumens per Lamp: N/A  
Luminaire Lumens: 21267 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

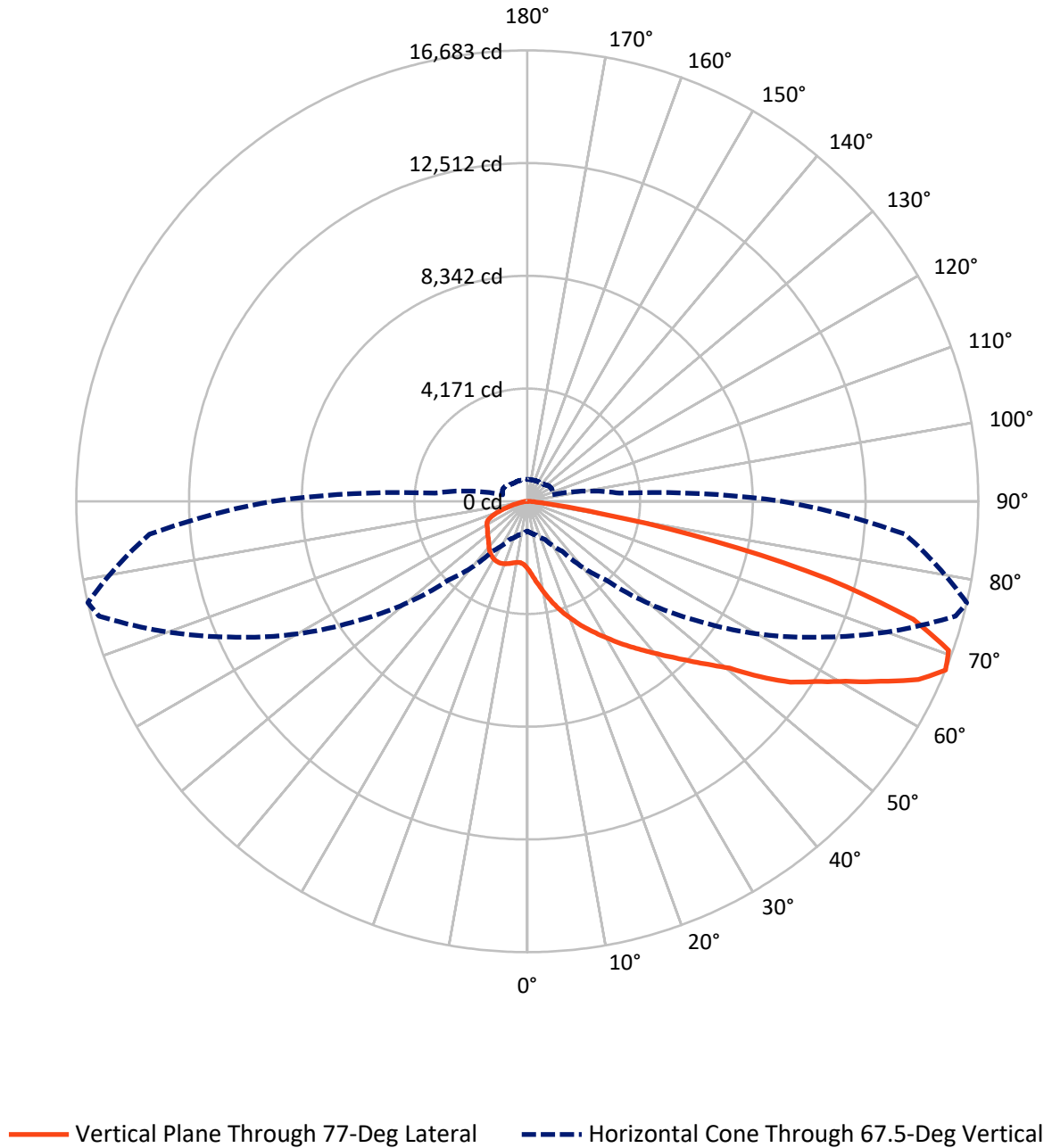
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4022.9	0.0	4022.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	17244.1	0.0	17244.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	21267.0	0.0	21267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	1.3
10°-20°	960.9	4.5
20°-30°	1814.2	8.5
30°-40°	2922.7	13.7
40°-50°	3997.7	18.8
50°-60°	4509.5	21.2
60°-70°	4209.0	19.8
70°-80°	2307.2	10.8
80°-90°	278.3	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°	21267.0	100.0
0°-180°	21267.0	100.0

**Coefficient of Utilization**



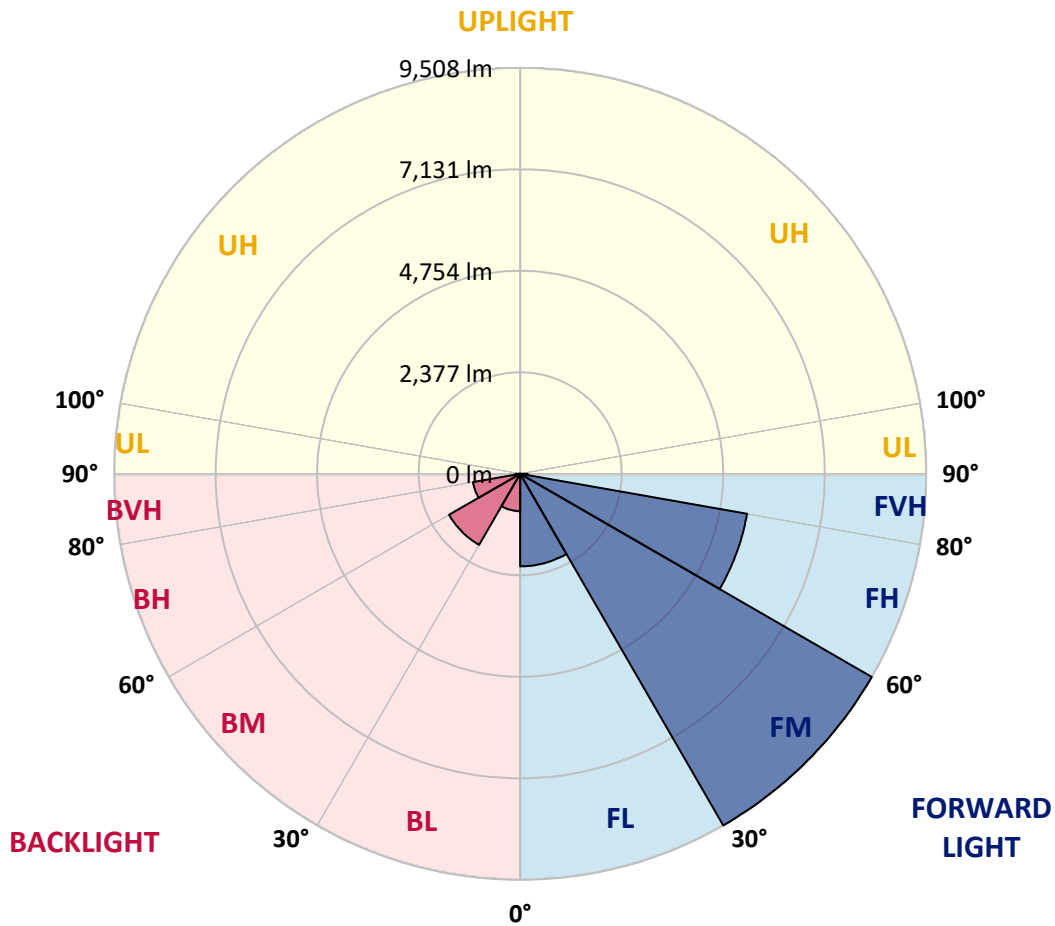
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.9	10.2			
FM (30°-60°)	9508.2	44.7			
FH (60°-80°)	5393.9	25.4			G3/7500
FVH (80°-90°)	174.1	0.8			G2/225
BL (0°-30°)	874.7	4.1	B2/1000		
BM (30°-60°)	1921.6	9.0	B2/2500		
BH (60°-80°)	1122.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.3	0.5			G2/225
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3
2.5°	3124.3	3146.3	3118.8	3118.8	3026.6	2978.3	2886.1	2815.8	2689.6	2667.6
5°	3693.0	3720.4	3682.0	3665.5	3556.8	3456.9	3302.2	3149.6	2924.5	2901.5
7.5°	4133.2	4168.3	4134.3	4116.7	4020.1	3908.1	3727.0	3514.0	3196.8	3151.8
10°	4492.2	4497.7	4486.7	4493.3	4417.5	4325.3	4139.8	3891.7	3495.4	3433.9
12.5°	4695.3	4720.5	4742.5	4782.0	4768.8	4711.7	4544.9	4248.5	3811.5	3732.5
15°	4790.8	4834.7	4884.1	4975.2	5048.7	5063.0	4935.7	4631.6	4133.2	4037.7
17.5°	4824.8	4866.5	4944.5	5076.2	5234.3	5340.8	5283.7	5003.7	4451.5	4341.8
20°	4997.1	5009.2	5056.4	5181.6	5352.8	5529.6	5572.4	5361.6	4766.6	4642.6
22.5°	5366.0	5341.9	5355.0	5412.1	5535.1	5706.3	5804.0	5677.8	5090.5	4947.7
25°	5975.3	5905.0	5834.8	5768.9	5831.5	5928.1	6039.0	5993.9	5429.7	5248.5
27.5°	6744.8	6659.2	6504.4	6288.1	6212.4	6246.4	6295.8	6287.1	5743.6	5560.3
30°	7502.3	7402.4	7218.0	6905.1	6705.3	6615.3	6578.0	6552.7	6085.1	5889.7
32.5°	8107.2	8028.1	7847.0	7496.8	7207.0	7053.3	6929.3	6839.2	6441.8	6246.4
35°	8636.3	8562.8	8355.3	7973.3	7658.2	7494.6	7332.1	7140.0	6812.9	6615.3
37.5°	9119.4	9045.8	8761.5	8364.1	8046.8	7933.7	7788.8	7462.8	7185.0	6998.4
40°	9424.5	9408.1	9142.4	8692.3	8363.0	8307.0	8258.7	7837.1	7597.8	7424.4
42.5°	9502.5	9538.7	9327.9	8958.0	8644.0	8599.0	8712.1	8260.9	8061.1	7895.3
45°	9314.8	9419.1	9280.7	9029.3	8843.8	8819.7	9113.9	8724.1	8573.8	8422.3
47.5°	8839.4	9016.2	8959.1	8923.9	8897.6	9001.9	9467.4	9216.0	9154.5	9022.7
50°	7879.9	8214.8	8314.7	8536.4	8791.1	9143.5	9789.0	9752.8	9832.9	9700.1
52.5°	6221.2	6682.3	7261.9	7817.4	8464.0	9096.3	10142.5	10523.4	10861.5	10789.1
55°	5135.5	5343.0	5788.7	6807.4	7829.4	8897.6	10301.7	11145.9	11882.5	11817.7
57.5°	4301.1	4486.7	4761.1	5611.9	6870.0	8446.4	10400.5	11525.7	12581.8	12575.2
60°	3406.4	3603.0	3884.0	4486.7	5749.1	7667.0	10378.5	11958.2	13474.3	13529.2
62.5°	2396.5	2612.7	2924.5	3486.6	4604.1	6657.0	9930.6	12271.1	14524.9	14674.2
65°	1575.3	1718.0	1953.0	2438.2	3430.6	5358.3	9075.4	12311.7	15649.0	15901.5
67.5°	1104.4	1159.3	1297.6	1561.1	2261.5	4109.0	7713.1	11891.3	16398.8	16683.1
70°	861.8	889.2	959.5	1064.9	1420.5	2763.1	5910.5	10797.9	16238.5	16534.9
72.5°	744.3	770.6	797.0	810.2	952.9	1706.0	4003.6	9028.2	14729.1	14930.0
75°	675.1	681.7	703.7	699.3	726.7	1106.6	2310.9	6578.0	11621.2	11552.1
77.5°	567.6	576.3	612.6	607.1	645.5	756.4	1199.9	4245.2	7534.1	7064.3
80°	480.8	485.2	524.7	518.2	561.0	547.8	612.6	2163.7	3195.7	2707.2
82.5°	166.9	206.4	400.7	412.8	428.1	331.5	353.5	882.6	975.9	747.6
85°	81.2	86.7	204.2	289.8	288.7	166.9	172.4	315.1	307.4	241.5
87.5°	13.2	16.5	24.2	113.1	90.0	43.9	59.3	61.5	63.7	54.9
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°
2495.3	0°	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3	2495.3
2584.2	2.5°	2522.7	2467.8	2352.6	2246.1	2162.6	2082.5	2037.5	1999.1	1977.1	1972.7
2705.0	5°	2590.8	2477.7	2268.0	2091.3	1976.0	1890.4	1845.4	1816.8	1802.6	1793.8
2867.4	7.5°	2688.5	2522.7	2224.1	2023.2	1902.5	1841.0	1817.9	1813.6	1812.5	1813.6
3063.9	10°	2823.5	2596.3	2219.7	2006.8	1905.8	1871.7	1870.6	1871.7	1876.1	1877.2
3278.0	12.5°	2969.5	2672.0	2237.3	2021.0	1947.5	1928.8	1925.5	1924.4	1927.7	1929.9
3494.3	15°	3128.7	2771.9	2266.9	2051.8	1993.6	1973.8	1970.5	1963.9	1962.9	1961.8
3721.5	17.5°	3292.3	2870.7	2299.9	2084.7	2023.2	1995.8	1983.7	1968.3	1956.3	1953.0
3956.4	20°	3458.0	2968.4	2322.9	2101.2	2025.4	1987.0	1962.9	1936.5	1915.6	1903.6
4193.6	22.5°	3634.8	3070.5	2337.2	2096.8	2005.7	1953.0	1909.1	1878.3	1846.5	1825.6
4432.9	25°	3807.1	3159.4	2336.1	2073.7	1967.2	1900.3	1844.3	1804.8	1760.9	1738.9
4679.9	27.5°	3972.9	3239.6	2308.7	2033.1	1912.4	1837.7	1770.7	1723.5	1680.7	1659.9
4929.1	30°	4144.2	3306.5	2265.8	1973.8	1847.6	1765.2	1691.7	1651.1	1612.7	1592.9
5192.6	32.5°	4314.3	3368.0	2205.5	1900.3	1772.9	1693.9	1621.4	1584.1	1561.1	1561.1
5475.8	35°	4494.4	3410.8	2125.3	1814.6	1693.9	1618.1	1561.1	1539.1	1536.9	1523.7
5775.5	37.5°	4684.3	3438.3	2027.6	1726.8	1615.9	1544.6	1527.0	1500.7	1478.7	1450.2
6104.8	40°	4884.1	3465.7	1910.2	1635.7	1533.6	1494.1	1486.4	1451.3	1388.7	1318.4
6478.1	42.5°	5126.7	3484.4	1788.3	1544.6	1446.9	1433.7	1444.7	1384.3	1284.4	1231.7
6928.2	45°	5407.7	3515.1	1676.3	1454.6	1358.0	1358.0	1404.1	1325.0	1242.7	1209.8
7441.9	47.5°	5772.2	3586.5	1572.0	1355.8	1275.6	1297.6	1314.1	1253.7	1207.6	1167.0
8067.7	50°	6299.1	3757.7	1464.5	1255.9	1213.1	1257.0	1233.9	1198.8	1145.0	1112.1
9062.3	52.5°	6953.4	3858.7	1368.9	1165.9	1159.3	1203.2	1170.2	1137.3	1096.7	1052.8
9816.5	55°	7399.1	3877.4	1288.8	1100.0	1123.0	1118.6	1106.6	1076.9	1055.0	996.8
10560.8	57.5°	7897.5	3914.7	1222.9	1060.5	1100.0	1051.7	1047.3	1022.0	993.5	954.0
11468.6	60°	8493.6	3972.9	1165.9	1045.1	1080.2	1007.8	985.8	975.9	947.4	927.6
12560.9	62.5°	9143.5	4025.6	1107.7	1047.3	1057.2	965.0	932.0	928.7	911.2	904.6
13586.3	65°	9587.0	3881.8	1035.2	1045.1	1020.9	921.0	879.3	878.2	864.0	861.8
14030.9	67.5°	9432.2	3426.2	937.5	1014.4	983.6	877.1	831.0	826.6	808.0	809.1
13566.5	70°	8657.2	2776.3	802.5	938.6	937.5	837.6	780.5	766.3	741.0	745.4
11795.8	72.5°	7203.7	2057.3	621.3	812.4	864.0	801.4	722.3	699.3	667.5	671.8
8707.7	75°	5202.4	1398.6	452.3	618.1	752.0	758.6	665.3	625.7	587.3	593.9
4846.7	77.5°	2662.1	792.6	332.6	425.9	590.6	689.4	613.7	561.0	552.2	613.7
1397.5	80°	868.4	397.4	230.5	298.6	387.5	564.3	537.9	477.5	475.3	489.6
293.1	82.5°	259.1	168.0	148.2	196.5	214.1	432.5	464.4	361.2	310.7	327.1
97.7	85°	88.9	81.2	84.5	97.7	102.1	253.6	324.9	239.3	226.1	249.2
22.0	87.5°	20.9	28.5	24.2	22.0	22.0	61.5	126.2	99.9	138.3	92.2
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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180°
2495.3
1972.7
1792.7
1816.8
1878.3
1931.0
1960.7
1956.3
1908.0
1826.7
1738.9
1658.8
1591.8
1562.2
1520.4
1445.8
1308.6
1232.8
1215.3
1165.9
1108.8
1044.0
997.9
940.8
933.1
904.6
860.7
809.1
749.8
670.8
596.1
604.9
420.5
338.1
245.9
88.9
0.0

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