

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: P953748

Luminaire Tested: **GALN-SB7A-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953748
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-SB7A-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22604 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

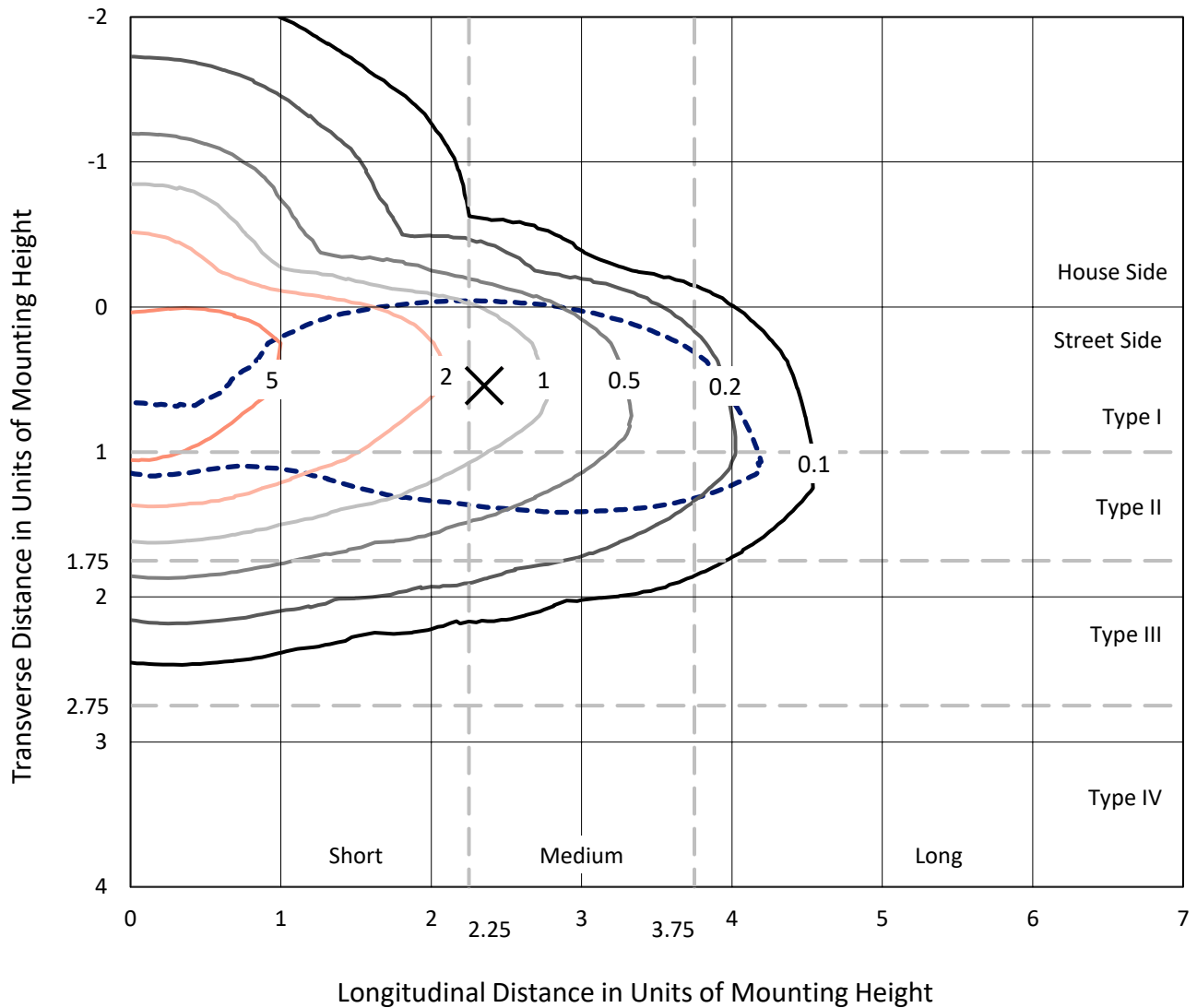
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

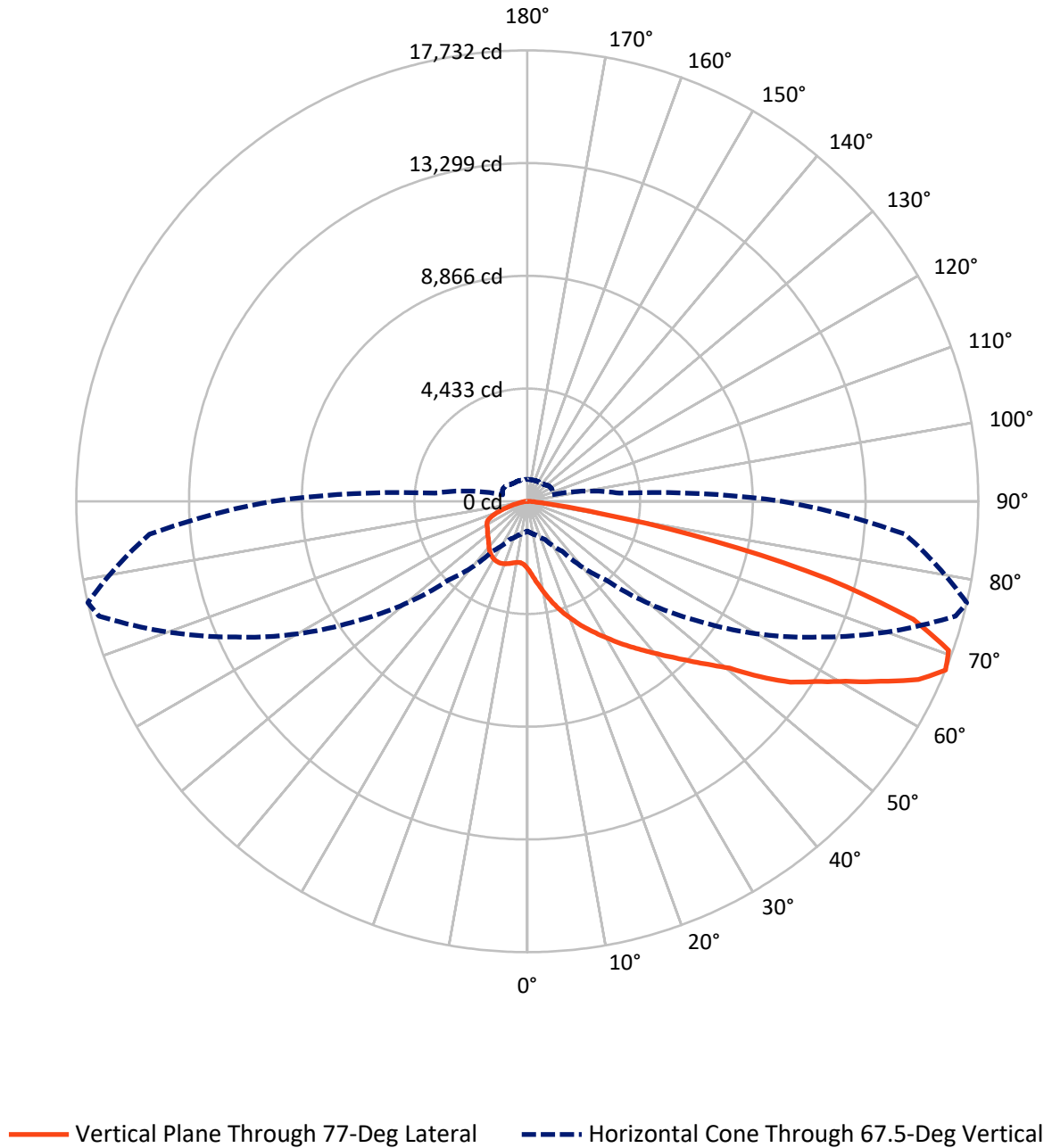
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4275.8	0.0	4275.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	18328.2	0.0	18328.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	22604.0	0.0	22604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	1.3
10°-20°	1021.3	4.5
20°-30°	1928.3	8.5
30°-40°	3106.4	13.7
40°-50°	4249.0	18.8
50°-60°	4792.9	21.2
60°-70°	4473.6	19.8
70°-80°	2452.3	10.8
80°-90°	295.8	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°	22604.0	100.0
0°-180°	22604.0	100.0

Coefficient of Utilization



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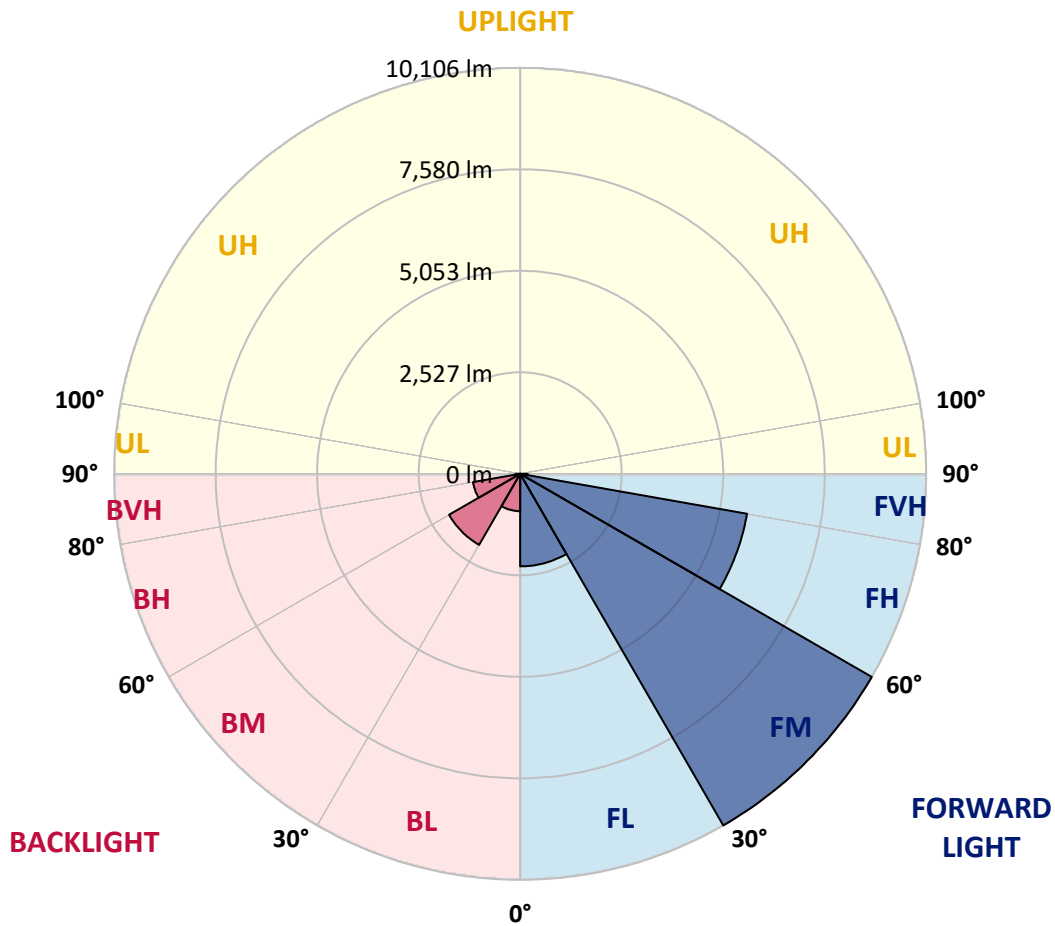
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.2	10.2			
FM (30°-60°)	10106.0	44.7			
FH (60°-80°)	5733.0	25.4			G3/7500
FVH (80°-90°)	185.0	0.8			G2/225
BL (0°-30°)	929.7	4.1	B2/1000		
BM (30°-60°)	2042.4	9.0	B2/2500		
BH (60°-80°)	1192.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.8	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°	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2
2.5°	3320.7	3344.1	3314.9	3314.9	3216.9	3165.5	3067.5	2992.9	2858.7	2835.3
5°	3925.1	3954.3	3913.5	3896.0	3780.5	3674.3	3509.8	3347.6	3108.4	3083.9
7.5°	4393.0	4430.4	4394.2	4375.5	4272.8	4153.8	3961.3	3734.9	3397.7	3349.9
10°	4774.6	4780.4	4768.7	4775.7	4695.2	4597.2	4400.0	4136.3	3715.1	3649.8
12.5°	4990.4	5017.3	5040.6	5082.6	5068.6	5007.9	4830.6	4515.5	4051.2	3967.1
15°	5091.9	5138.6	5191.1	5288.0	5366.1	5381.3	5246.0	4922.8	4393.0	4291.5
17.5°	5128.1	5172.5	5255.3	5395.3	5563.3	5676.5	5615.8	5318.3	4731.4	4614.7
20°	5311.3	5324.1	5374.3	5507.3	5689.3	5877.2	5922.7	5698.7	5066.3	4934.4
22.5°	5703.4	5677.7	5691.7	5752.4	5883.0	6065.1	6168.9	6034.7	5410.5	5258.8
25°	6350.9	6276.3	6201.6	6131.6	6198.1	6300.8	6418.6	6370.8	5771.0	5578.5
27.5°	7168.9	7077.8	6913.3	6683.5	6603.0	6639.1	6691.6	6682.3	6104.7	5909.9
30°	7974.0	7867.8	7671.8	7339.2	7126.9	7031.2	6991.5	6964.7	6467.6	6259.9
32.5°	8616.9	8532.9	8340.3	7968.1	7660.1	7496.7	7364.9	7269.2	6846.8	6639.1
35°	9179.3	9101.1	8880.6	8474.5	8139.6	7965.8	7793.1	7588.9	7241.2	7031.2
37.5°	9692.7	9614.5	9312.3	8889.9	8552.7	8432.5	8278.5	7932.0	7636.7	7438.4
40°	10017.0	9999.5	9717.2	9238.8	8888.7	8829.2	8777.9	8329.8	8075.5	7891.1
42.5°	10099.9	10138.4	9914.4	9521.1	9187.4	9139.6	9259.8	8780.2	8567.9	8391.7
45°	9900.4	10011.2	9864.2	9597.0	9399.8	9374.1	9686.8	9272.6	9112.8	8951.7
47.5°	9395.1	9583.0	9522.3	9485.0	9457.0	9567.8	10062.5	9795.3	9730.0	9590.0
50°	8375.3	8731.2	8837.4	9073.1	9343.8	9718.3	10404.4	10365.9	10451.1	10309.9
52.5°	6612.3	7102.4	7718.4	8308.8	8996.1	9668.2	10780.1	11185.0	11544.4	11467.4
55°	5458.3	5678.8	6152.6	7235.4	8321.7	9457.0	10949.3	11846.6	12629.5	12560.7
57.5°	4571.5	4768.7	5060.4	5964.7	7301.9	8977.4	11054.3	12250.3	13372.8	13365.8
60°	3620.6	3829.5	4128.2	4768.7	6110.6	8149.0	11031.0	12710.0	14321.4	14379.7
62.5°	2547.1	2777.0	3108.4	3705.8	4893.6	7075.5	10554.9	13042.6	15438.0	15596.7
65°	1674.4	1826.1	2075.7	2591.5	3646.3	5695.2	9646.0	13085.7	16632.8	16901.2
67.5°	1173.8	1232.1	1379.2	1659.2	2403.6	4367.4	8198.0	12638.8	17429.8	17732.0
70°	915.9	945.1	1019.8	1131.8	1509.8	2936.9	6282.1	11476.7	17259.4	17574.4
72.5°	791.1	819.1	847.1	861.1	1012.8	1813.2	4255.3	9595.8	15655.0	15868.6
75°	717.6	724.6	747.9	743.3	772.4	1176.1	2456.1	6991.5	12351.8	12278.3
77.5°	603.2	612.6	651.1	645.2	686.1	803.9	1275.3	4512.0	8007.8	7508.4
80°	511.1	515.7	557.7	550.7	596.2	582.2	651.1	2299.8	3396.6	2877.3
82.5°	177.4	219.4	425.9	438.7	455.1	352.4	375.7	938.1	1037.3	794.6
85°	86.3	92.2	217.0	308.0	306.9	177.4	183.2	334.9	326.7	256.7
87.5°	14.0	17.5	25.7	120.2	95.7	46.7	63.0	65.3	67.7	58.3
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°
2652.2	0°	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2
2746.7	2.5°	2681.3	2623.0	2500.5	2387.3	2298.6	2213.4	2165.6	2124.8	2101.4	2096.8
2875.0	5°	2753.7	2633.5	2410.6	2222.8	2100.3	2009.2	1961.4	1931.1	1915.9	1906.6
3047.7	7.5°	2857.5	2681.3	2364.0	2150.4	2022.1	1956.7	1932.2	1927.6	1926.4	1927.6
3256.6	10°	3001.0	2759.5	2359.3	2132.9	2025.6	1989.4	1988.2	1989.4	1994.1	1995.2
3484.1	12.5°	3156.2	2840.0	2378.0	2148.1	2069.9	2050.1	2046.6	2045.4	2048.9	2051.2
3713.9	15°	3325.4	2946.2	2409.5	2180.8	2118.9	2097.9	2094.4	2087.4	2086.3	2085.1
3955.5	17.5°	3499.3	3051.2	2444.5	2215.8	2150.4	2121.3	2108.4	2092.1	2079.2	2075.7
4205.2	20°	3675.4	3155.0	2469.0	2233.3	2152.8	2111.9	2086.3	2058.2	2036.1	2023.2
4457.2	22.5°	3863.3	3263.6	2484.1	2228.6	2131.8	2075.7	2029.1	1996.4	1962.6	1940.4
4711.6	25°	4046.5	3358.1	2483.0	2204.1	2090.9	2019.7	1960.2	1918.2	1871.6	1848.2
4974.1	27.5°	4222.7	3443.2	2453.8	2160.9	2032.6	1953.2	1882.1	1831.9	1786.4	1764.2
5239.0	30°	4404.7	3514.4	2408.3	2097.9	1963.7	1876.2	1798.0	1754.9	1714.0	1693.0
5519.0	32.5°	4585.6	3579.8	2344.1	2019.7	1884.4	1800.4	1723.4	1683.7	1659.2	1659.2
5820.0	35°	4776.9	3625.3	2258.9	1928.7	1800.4	1719.9	1659.2	1635.9	1633.5	1619.5
6138.6	37.5°	4978.8	3654.4	2155.1	1835.4	1717.5	1641.7	1623.0	1595.0	1571.7	1541.4
6488.6	40°	5191.1	3683.6	2030.2	1738.5	1630.0	1588.0	1579.9	1542.5	1476.0	1401.3
6885.3	42.5°	5449.0	3703.4	1900.7	1641.7	1537.9	1523.8	1535.5	1471.3	1365.2	1309.2
7363.7	45°	5747.7	3736.1	1781.7	1546.0	1443.3	1443.3	1492.3	1408.3	1320.8	1285.8
7909.8	47.5°	6135.1	3812.0	1670.9	1441.0	1355.8	1379.2	1396.7	1332.5	1283.5	1240.3
8574.9	50°	6695.1	3994.0	1556.5	1334.8	1289.3	1336.0	1311.5	1274.2	1217.0	1182.0
9632.0	52.5°	7390.6	4101.3	1455.0	1239.1	1232.1	1278.8	1243.8	1208.8	1165.6	1119.0
10433.6	55°	7864.3	4121.2	1369.8	1169.1	1193.6	1189.0	1176.1	1144.6	1121.3	1059.5
11224.7	57.5°	8394.0	4160.8	1299.8	1127.1	1169.1	1117.8	1113.1	1086.3	1056.0	1014.0
12189.6	60°	9027.6	4222.7	1239.1	1110.8	1148.1	1071.1	1047.8	1037.3	1007.0	986.0
13350.6	62.5°	9718.3	4278.7	1177.3	1113.1	1123.6	1025.6	990.6	987.1	968.4	961.4
14440.4	65°	10189.7	4125.8	1100.3	1110.8	1085.1	979.0	934.6	933.4	918.3	915.9
14913.0	67.5°	10025.2	3641.6	996.5	1078.1	1045.5	932.3	883.3	878.6	858.8	859.9
14419.4	70°	9201.4	2950.9	852.9	997.6	996.5	890.3	829.6	814.4	787.6	792.3
12537.3	72.5°	7656.6	2186.6	660.4	863.4	918.3	851.8	767.8	743.3	709.4	714.1
9255.1	75°	5529.5	1486.5	480.7	656.9	799.3	806.3	707.1	665.1	624.2	631.2
5151.5	77.5°	2829.5	842.4	353.5	452.7	627.7	732.8	652.2	596.2	586.9	652.2
1485.3	80°	922.9	422.4	245.0	317.4	411.9	599.7	571.7	507.6	505.2	520.4
311.5	82.5°	275.4	178.5	157.5	208.9	227.5	459.7	493.6	383.9	330.2	347.7
103.8	85°	94.5	86.3	89.8	103.8	108.5	269.5	345.4	254.4	240.4	264.9
23.3	87.5°	22.2	30.3	25.7	23.3	23.3	65.3	134.2	106.2	147.0	98.0
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>
2652.2
2096.8
1905.4
1931.1
1996.4
2052.4
2083.9
2079.2
2027.9
1941.6
1848.2
1763.0
1691.9
1660.4
1616.0
1536.7
1390.8
1310.3
1291.7
1239.1
1178.5
1109.6
1060.6
1000.0
991.8
961.4
914.8
859.9
796.9
712.9
633.6
642.9
446.9
359.4
261.4
94.5
0.0

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