

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: P947490

Luminaire Tested: **GALN-SB2D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947490
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-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18024 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

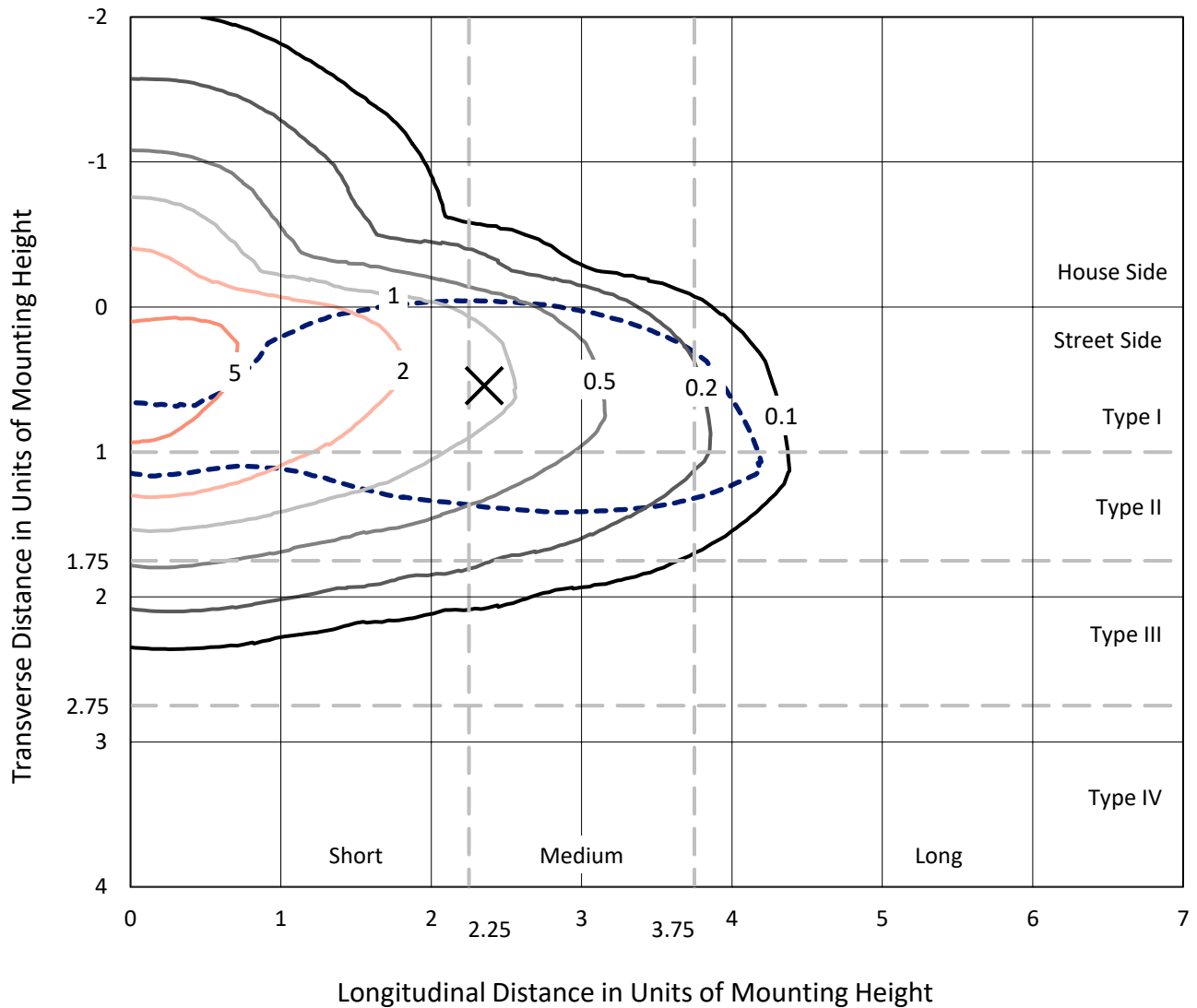
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

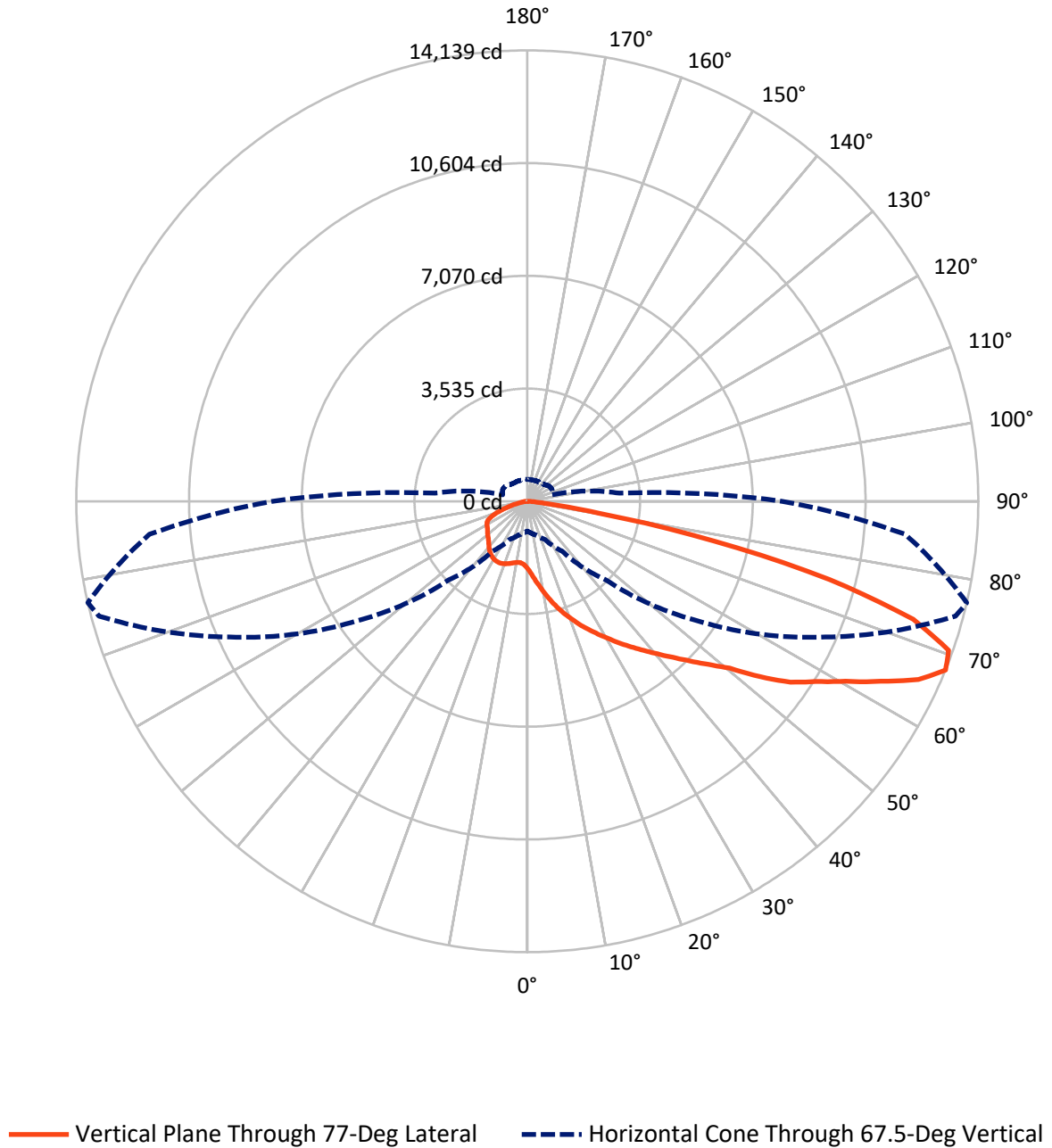
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3409.4	0.0	3409.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	14614.6	0.0	14614.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	18024.0	0.0	18024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	1.3
10°-20°	814.4	4.5
20°-30°	1537.6	8.5
30°-40°	2477.0	13.7
40°-50°	3388.1	18.8
50°-60°	3821.8	21.2
60°-70°	3567.2	19.8
70°-80°	1955.4	10.8
80°-90°	235.9	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°	18024.0	100.0
0°-180°	18024.0	100.0



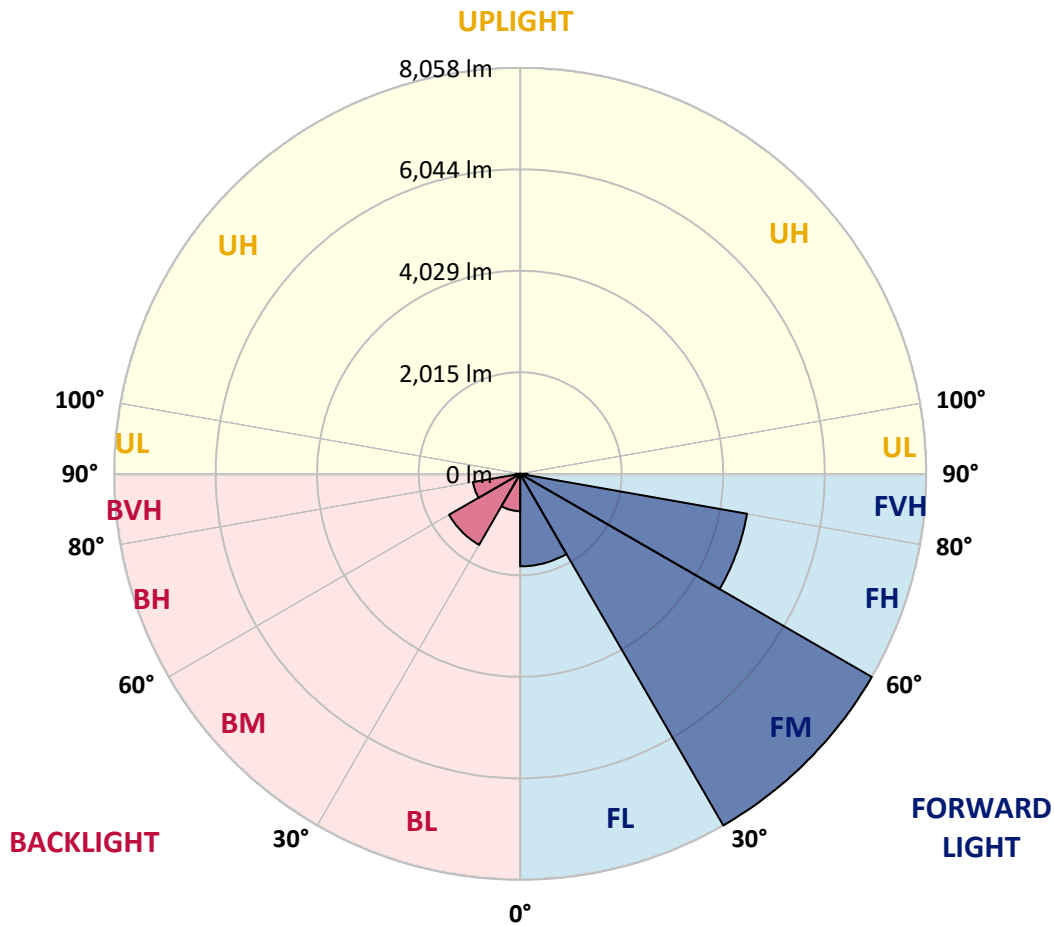
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.3	10.2			
FM (30°-60°)	8058.3	44.7			
FH (60°-80°)	4571.4	25.4			G2/5000
FVH (80°-90°)	147.5	0.8			G2/225
BL (0°-30°)	741.3	4.1	B2/1000		
BM (30°-60°)	1628.6	9.0	B2/2500		
BH (60°-80°)	951.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	88.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2647.9	2666.5	2643.2	2643.2	2565.1	2524.1	2446.0	2386.4	2279.5	2260.8
5°	3129.8	3153.1	3120.5	3106.6	3014.5	2929.8	2798.6	2669.3	2478.6	2459.0
7.5°	3502.9	3532.7	3503.8	3489.0	3407.1	3312.2	3158.7	2978.2	2709.3	2671.1
10°	3807.2	3811.8	3802.5	3808.1	3743.9	3665.7	3508.5	3298.2	2962.4	2910.3
12.5°	3979.3	4000.7	4019.3	4052.8	4041.6	3993.2	3851.8	3600.6	3230.3	3163.3
15°	4060.2	4097.4	4139.3	4216.5	4278.9	4291.0	4183.0	3925.3	3502.9	3422.0
17.5°	4089.1	4124.4	4190.5	4302.1	4436.1	4526.3	4478.0	4240.7	3772.7	3679.7
20°	4235.1	4245.4	4285.4	4391.4	4536.6	4686.4	4722.7	4544.0	4039.8	3934.6
22.5°	4547.7	4527.3	4538.4	4586.8	4691.0	4836.2	4919.0	4812.0	4314.2	4193.3
25°	5064.1	5004.6	4945.0	4889.2	4942.2	5024.1	5118.1	5079.9	4601.7	4448.2
27.5°	5716.3	5643.7	5512.6	5329.3	5265.1	5293.9	5335.8	5328.3	4867.8	4712.4
30°	6358.3	6273.6	6117.3	5852.1	5682.8	5606.5	5574.9	5553.5	5157.1	4991.5
32.5°	6870.9	6803.9	6650.4	6353.6	6108.0	5977.8	5872.6	5796.3	5459.5	5293.9
35°	7319.4	7257.0	7081.2	6757.4	6490.4	6351.8	6214.1	6051.3	5774.0	5606.5
37.5°	7728.7	7666.4	7425.4	7088.6	6819.8	6723.9	6601.1	6324.8	6089.4	5931.2
40°	7987.4	7973.4	7748.3	7366.8	7087.7	7040.3	6999.3	6642.1	6439.2	6292.2
42.5°	8053.5	8084.2	7905.5	7592.0	7325.9	7287.7	7383.6	7001.2	6831.8	6691.4
45°	7894.4	7982.7	7865.5	7652.5	7495.2	7474.7	7724.1	7393.8	7266.3	7137.9
47.5°	7491.5	7641.3	7592.9	7563.1	7540.8	7629.2	8023.7	7810.6	7758.5	7646.9
50°	6678.3	6962.1	7046.8	7234.7	7450.6	7749.2	8296.3	8265.6	8333.5	8220.9
52.5°	5272.5	5663.3	6154.5	6625.3	7173.3	7709.2	8595.9	8918.7	9205.3	9143.9
55°	4352.4	4528.2	4905.9	5769.3	6635.5	7540.8	8730.8	9446.2	10070.5	10015.6
57.5°	3645.3	3802.5	4035.1	4756.2	5822.4	7158.4	8814.5	9768.2	10663.2	10657.6
60°	2887.0	3053.5	3291.7	3802.5	4872.4	6497.8	8795.9	10134.7	11419.6	11466.1
62.5°	2031.0	2214.3	2478.6	2954.9	3902.1	5641.9	8416.3	10399.9	12310.0	12436.5
65°	1335.1	1456.1	1655.2	2066.4	2907.5	4541.2	7691.5	10434.3	13262.7	13476.7
67.5°	936.0	982.5	1099.7	1323.0	1916.6	3482.4	6536.9	10078.0	13898.2	14139.1
70°	730.4	753.6	813.2	902.5	1203.9	2341.8	5009.2	9151.3	13762.3	14013.5
72.5°	630.8	653.1	675.5	686.6	807.6	1445.8	3393.1	7651.5	12483.0	12653.3
75°	572.2	577.8	596.4	592.7	615.9	937.8	1958.5	5574.9	9849.1	9790.5
77.5°	481.0	488.5	519.2	514.5	547.1	641.0	1016.9	3597.8	6385.3	5987.1
80°	407.5	411.2	444.7	439.1	475.4	464.3	519.2	1833.8	2708.4	2294.3
82.5°	141.4	174.9	339.6	349.8	362.9	281.0	299.6	748.0	827.1	633.6
85°	68.8	73.5	173.1	245.6	244.7	141.4	146.1	267.0	260.5	204.7
87.5°	11.2	14.0	20.5	95.8	76.3	37.2	50.2	52.1	54.0	46.5
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°
2114.8	0°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2190.1	2.5°	2138.0	2091.5	1993.8	1903.6	1832.9	1764.9	1726.8	1694.2	1675.6	1671.9
2292.5	5°	2195.7	2099.9	1922.2	1772.4	1674.7	1602.1	1564.0	1539.8	1527.7	1520.3
2430.2	7.5°	2278.5	2138.0	1885.0	1714.7	1612.4	1560.3	1540.7	1537.0	1536.1	1537.0
2596.7	10°	2393.0	2200.4	1881.2	1700.8	1615.2	1586.3	1585.4	1586.3	1590.0	1591.0
2778.1	12.5°	2516.7	2264.6	1896.1	1712.8	1650.5	1634.7	1631.9	1631.0	1633.8	1635.6
2961.4	15°	2651.6	2349.2	1921.3	1738.9	1689.6	1672.8	1670.0	1664.5	1663.5	1662.6
3154.0	17.5°	2790.2	2433.0	1949.2	1766.8	1714.7	1691.4	1681.2	1668.2	1658.0	1655.2
3353.1	20°	2930.7	2515.8	1968.7	1780.8	1716.6	1684.0	1663.5	1641.2	1623.5	1613.3
3554.1	22.5°	3080.5	2602.3	1980.8	1777.0	1699.8	1655.2	1617.9	1591.9	1564.9	1547.2
3756.9	25°	3226.6	2677.7	1979.9	1757.5	1667.3	1610.5	1563.1	1529.6	1492.3	1473.7
3966.3	27.5°	3367.1	2745.6	1956.6	1723.1	1620.7	1557.5	1500.7	1460.7	1424.4	1406.7
4177.4	30°	3512.2	2802.3	1920.3	1672.8	1565.8	1496.1	1433.7	1399.3	1366.7	1350.0
4400.7	32.5°	3656.4	2854.4	1869.2	1610.5	1502.6	1435.6	1374.2	1342.6	1323.0	1323.0
4640.8	35°	3809.0	2890.7	1801.2	1537.9	1435.6	1371.4	1323.0	1304.4	1302.5	1291.4
4894.8	37.5°	3970.0	2914.0	1718.4	1463.5	1369.5	1309.1	1294.2	1271.8	1253.2	1229.0
5173.9	40°	4139.3	2937.2	1618.9	1386.3	1299.8	1266.3	1259.7	1230.0	1176.9	1117.4
5490.2	42.5°	4344.9	2953.1	1515.6	1309.1	1226.3	1215.1	1224.4	1173.2	1088.6	1043.9
5871.7	45°	4583.1	2979.1	1420.7	1232.8	1150.9	1150.9	1190.0	1123.0	1053.2	1025.3
6307.1	47.5°	4892.0	3039.6	1332.3	1149.0	1081.1	1099.7	1113.7	1062.5	1023.4	989.0
6837.4	50°	5338.6	3184.7	1241.1	1064.4	1028.1	1065.3	1045.8	1016.0	970.4	942.5
7680.4	52.5°	5893.1	3270.3	1160.2	988.1	982.5	1019.7	991.8	963.9	929.5	892.2
8319.5	55°	6270.8	3286.1	1092.3	932.3	951.8	948.1	937.8	912.7	894.1	844.8
8950.3	57.5°	6693.2	3317.8	1036.5	898.8	932.3	891.3	887.6	866.2	842.0	808.5
9719.8	60°	7198.4	3367.1	988.1	885.7	915.5	854.1	835.5	827.1	802.9	786.2
10645.5	62.5°	7749.2	3411.7	938.8	887.6	896.0	817.8	789.9	787.1	772.2	766.6
11514.5	65°	8125.1	3289.9	877.4	885.7	865.3	780.6	745.2	744.3	732.2	730.4
11891.3	67.5°	7993.9	2903.7	794.6	859.7	833.6	743.4	704.3	700.6	684.8	685.7
11497.8	70°	7337.1	2353.0	680.1	795.5	794.6	709.9	661.5	649.4	628.0	631.7
9997.0	72.5°	6105.2	1743.5	526.6	688.5	732.2	679.2	612.2	592.7	565.7	569.4
7379.8	75°	4409.1	1185.3	383.3	523.8	637.3	642.9	563.8	530.3	497.8	503.3
4107.7	77.5°	2256.2	671.7	281.9	361.0	500.5	584.3	520.1	475.4	468.0	520.1
1184.4	80°	735.9	336.8	195.4	253.1	328.4	478.2	455.9	404.7	402.9	415.0
248.4	82.5°	219.6	142.3	125.6	166.5	181.4	366.6	393.6	306.1	263.3	277.3
82.8	85°	75.4	68.8	71.6	82.8	86.5	214.9	275.4	202.8	191.7	211.2
18.6	87.5°	17.7	24.2	20.5	18.6	18.6	52.1	107.0	84.7	117.2	78.2
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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<u>180°</u>
2114.8
1671.9
1519.3
1539.8
1591.9
1636.6
1661.7
1658.0
1617.0
1548.2
1473.7
1405.8
1349.1
1323.9
1288.6
1225.3
1109.0
1044.8
1029.9
988.1
939.7
884.8
845.7
797.3
790.8
766.6
729.4
685.7
635.5
568.5
505.2
512.6
356.3
286.6
208.4
75.4
0.0

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