

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: P948561

Luminaire Tested: **GALN-SB3C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948561
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-SB3C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19902 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

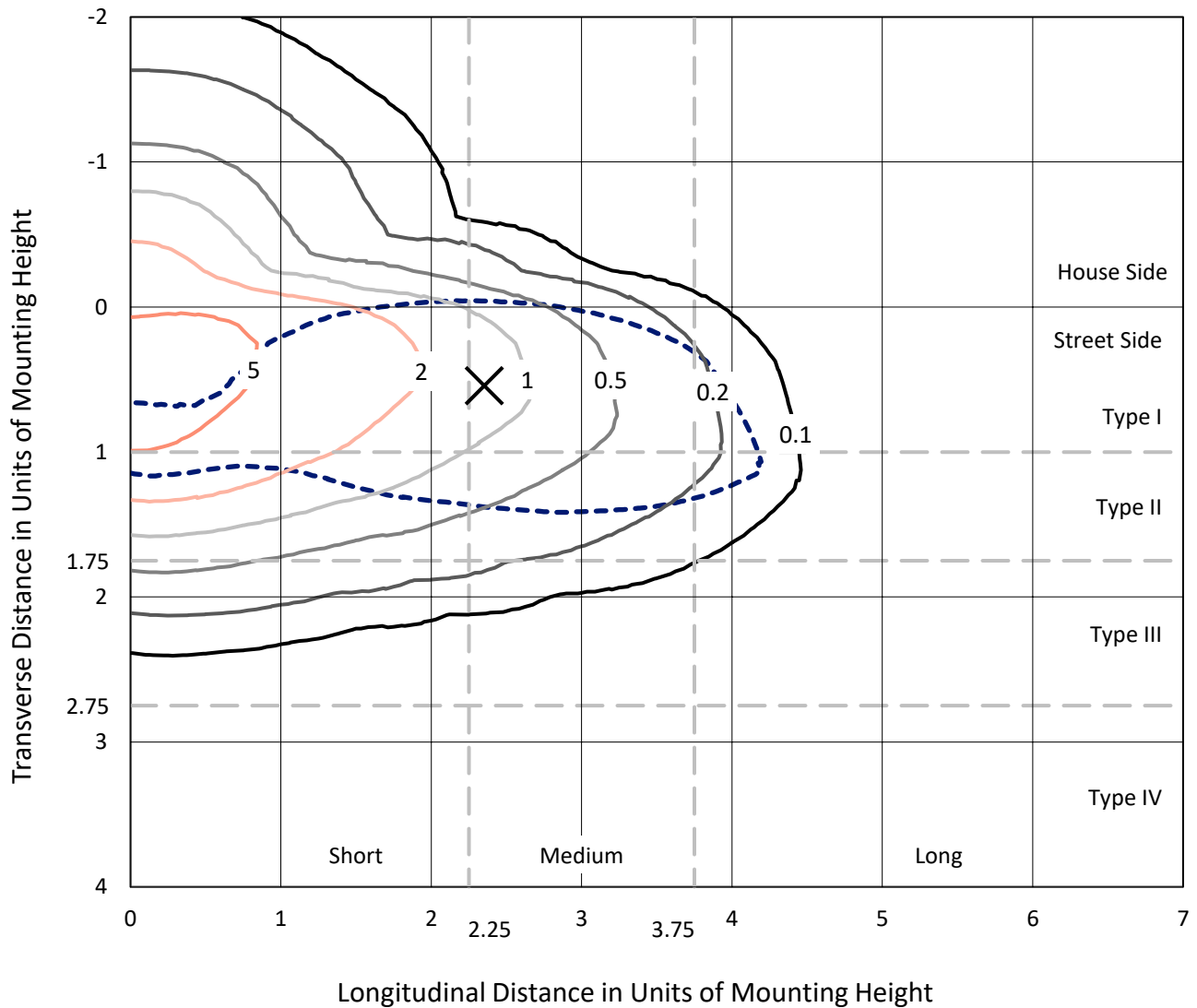
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

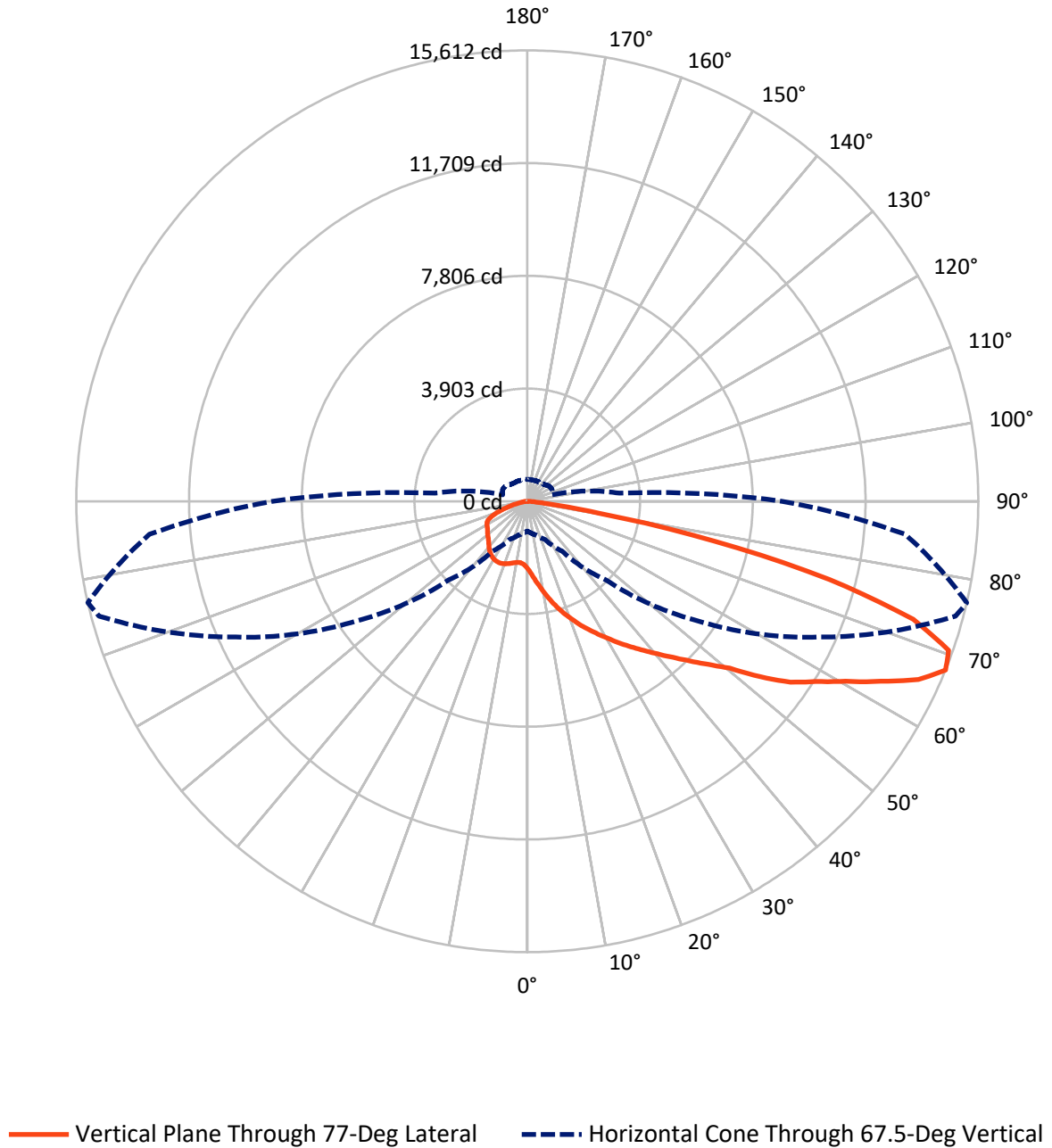
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3764.7	0.0	3764.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16137.3	0.0	16137.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	19902.0	0.0	19902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	1.3
10°-20°	899.2	4.5
20°-30°	1697.8	8.5
30°-40°	2735.1	13.7
40°-50°	3741.1	18.8
50°-60°	4220.0	21.2
60°-70°	3938.9	19.8
70°-80°	2159.2	10.8
80°-90°	260.4	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°	19902.0	100.0
0°-180°	19902.0	100.0

Coefficient of Utilization



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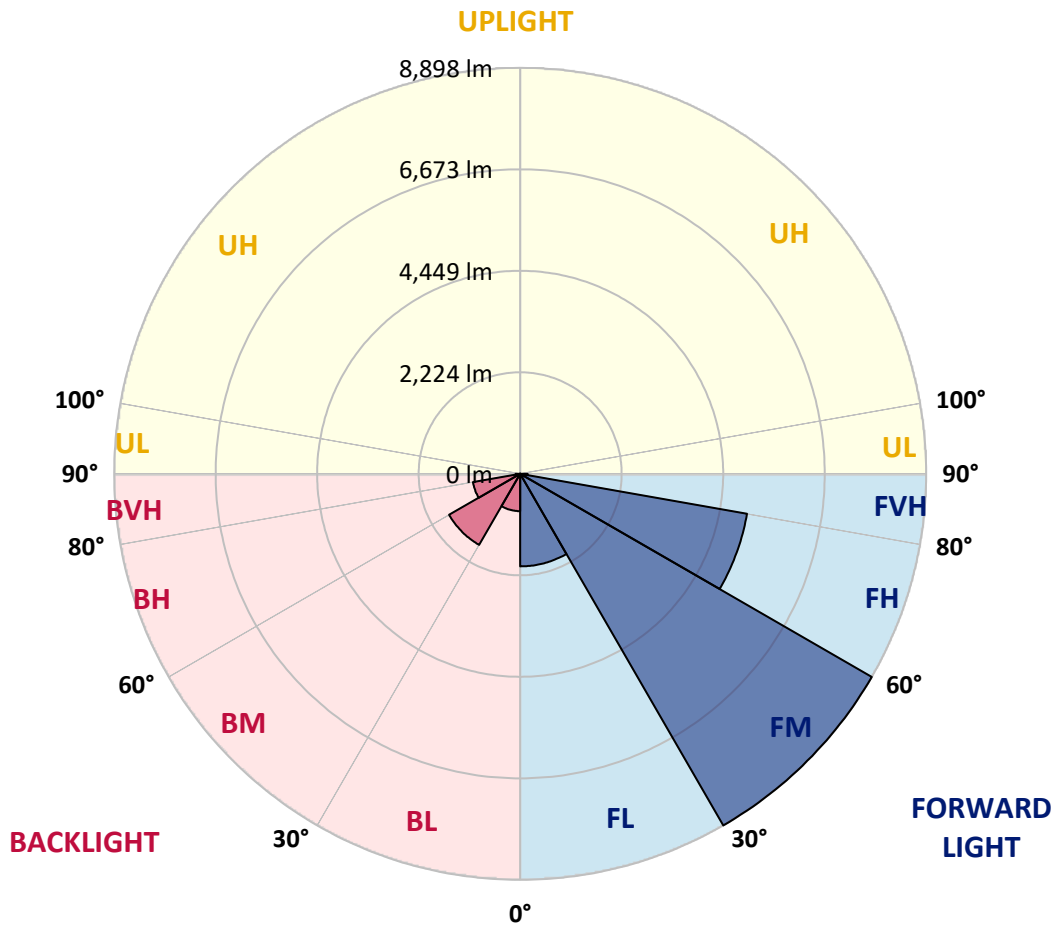
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.8	10.2			
FM (30°-60°)	8898.0	44.7			
FH (60°-80°)	5047.7	25.4			G3/7500
FVH (80°-90°)	162.9	0.8			G2/225
BL (0°-30°)	818.5	4.1	B2/1000		
BM (30°-60°)	1798.3	9.0	B2/2500		
BH (60°-80°)	1050.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2.5°	2923.8	2944.3	2918.6	2918.6	2832.4	2787.1	2700.9	2635.1	2517.0	2496.4
5°	3455.9	3481.6	3445.7	3430.3	3328.6	3235.1	3090.2	2947.4	2736.8	2715.2
7.5°	3867.9	3900.8	3868.9	3852.5	3762.1	3657.3	3487.8	3288.5	2991.6	2949.5
10°	4203.8	4209.0	4198.7	4204.9	4134.0	4047.7	3874.1	3641.9	3271.0	3213.5
12.5°	4393.9	4417.5	4438.1	4475.1	4462.7	4409.3	4253.1	3975.8	3566.9	3492.9
15°	4483.3	4524.4	4570.6	4655.9	4724.7	4738.0	4618.9	4334.3	3867.9	3778.5
17.5°	4515.1	4554.2	4627.1	4750.4	4898.3	4998.0	4944.5	4682.6	4165.8	4063.1
20°	4676.4	4687.7	4731.9	4849.0	5009.3	5174.7	5214.7	5017.5	4460.7	4344.6
22.5°	5021.6	4999.0	5011.3	5064.7	5179.8	5340.1	5431.5	5313.4	4763.7	4630.2
25°	5591.8	5526.0	5460.3	5398.6	5457.2	5547.6	5651.3	5609.2	5081.2	4911.7
27.5°	6311.9	6231.8	6086.9	5884.6	5813.7	5845.5	5891.7	5883.5	5375.0	5203.4
30°	7020.8	6927.3	6754.7	6461.9	6274.9	6190.7	6155.8	6132.1	5694.5	5511.6
32.5°	7586.8	7512.9	7343.4	7015.6	6744.4	6600.6	6484.5	6400.3	6028.4	5845.5
35°	8082.0	8013.2	7819.0	7461.5	7166.7	7013.6	6861.5	6681.8	6375.6	6190.7
37.5°	8534.0	8465.2	8199.1	7827.2	7530.3	7424.5	7288.9	6983.8	6723.9	6549.2
40°	8819.6	8804.2	8555.6	8134.4	7826.2	7773.8	7728.6	7334.1	7110.2	6947.8
42.5°	8892.6	8926.5	8729.2	8383.0	8089.2	8047.1	8152.9	7730.7	7543.7	7388.6
45°	8716.9	8814.5	8685.1	8449.8	8276.2	8253.6	8528.9	8164.2	8023.5	7881.7
47.5°	8272.1	8437.5	8384.0	8351.2	8326.5	8424.1	8859.7	8624.4	8566.9	8443.6
50°	7374.2	7687.5	7781.0	7988.5	8226.9	8556.6	9160.7	9126.8	9201.8	9077.5
52.5°	5821.9	6253.4	6795.8	7315.6	7920.7	8512.5	9491.5	9848.0	10164.4	10096.6
55°	4805.9	5000.0	5417.1	6370.5	7326.9	8326.5	9640.5	10430.5	11119.8	11059.2
57.5°	4025.1	4198.7	4455.5	5251.7	6429.0	7904.3	9732.9	10785.9	11774.2	11768.1
60°	3187.8	3371.7	3634.7	4198.7	5380.1	7174.9	9712.4	11190.7	12609.5	12660.8
62.5°	2242.7	2445.0	2736.8	3262.8	4308.6	6229.7	9293.2	11483.5	13592.6	13732.3
65°	1474.2	1607.8	1827.6	2281.7	3210.4	5014.4	8492.9	11521.5	14644.6	14880.9
67.5°	1033.5	1084.9	1214.3	1460.9	2116.3	3845.3	7218.0	11128.0	15346.3	15612.3
70°	806.5	832.1	897.9	996.5	1329.4	2585.8	5531.1	10104.8	15196.3	15473.7
72.5°	696.5	721.2	745.8	758.2	891.7	1596.5	3746.7	8448.8	13783.7	13971.7
75°	631.8	638.0	658.5	654.4	680.1	1035.5	2162.5	6155.8	10875.3	10810.6
77.5°	531.1	539.3	573.3	568.1	604.1	707.8	1122.9	3972.7	7050.6	6610.9
80°	450.0	454.1	491.1	484.9	525.0	512.6	573.3	2024.9	2990.6	2533.4
82.5°	156.2	193.1	375.0	386.3	400.7	310.3	330.8	826.0	913.3	699.6
85°	76.0	81.2	191.1	271.2	270.2	156.2	161.3	294.8	287.7	226.0
87.5°	12.3	15.4	22.6	105.8	84.2	41.1	55.5	57.5	59.6	51.4
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°
2335.1	0°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2418.3	2.5°	2360.8	2309.4	2201.6	2101.9	2023.8	1948.8	1906.7	1870.8	1850.2	1846.1
2531.3	5°	2424.5	2318.7	2122.5	1957.1	1849.2	1769.1	1726.9	1700.2	1686.9	1678.7
2683.4	7.5°	2515.9	2360.8	2081.4	1893.4	1780.4	1722.8	1701.3	1697.2	1696.1	1697.2
2867.3	10°	2642.3	2429.6	2077.3	1878.0	1783.4	1751.6	1750.6	1751.6	1755.7	1756.7
3067.6	12.5°	2778.9	2500.5	2093.7	1891.3	1822.5	1805.0	1801.9	1800.9	1804.0	1806.0
3270.0	15°	2927.9	2594.0	2121.4	1920.1	1865.6	1847.1	1844.1	1837.9	1836.9	1835.8
3482.7	17.5°	3081.0	2686.5	2152.3	1950.9	1893.4	1867.7	1856.4	1842.0	1830.7	1827.6
3702.5	20°	3236.1	2777.9	2173.8	1966.3	1895.4	1859.5	1836.9	1812.2	1792.7	1781.4
3924.4	22.5°	3401.5	2873.4	2187.2	1962.2	1876.9	1827.6	1786.5	1757.8	1728.0	1708.5
4148.4	25°	3562.8	2956.7	2186.2	1940.6	1841.0	1778.3	1725.9	1688.9	1647.8	1627.3
4379.5	27.5°	3717.9	3031.7	2160.5	1902.6	1789.6	1719.8	1657.1	1612.9	1572.8	1553.3
4612.7	30°	3878.2	3094.3	2120.4	1847.1	1729.0	1651.9	1583.1	1545.1	1509.1	1490.7
4859.3	32.5°	4037.4	3151.9	2063.9	1778.3	1659.1	1585.2	1517.4	1482.4	1460.9	1460.9
5124.3	35°	4205.9	3191.9	1988.9	1698.2	1585.2	1514.3	1460.9	1440.3	1438.3	1425.9
5404.8	37.5°	4383.6	3217.6	1897.5	1616.0	1512.2	1445.5	1429.0	1404.4	1383.8	1357.1
5713.0	40°	4570.6	3243.3	1787.6	1530.7	1435.2	1398.2	1391.0	1358.1	1299.6	1233.8
6062.3	42.5°	4797.6	3260.7	1673.5	1445.5	1354.0	1341.7	1352.0	1295.5	1202.0	1152.7
6483.5	45°	5060.6	3289.5	1568.7	1361.2	1270.8	1270.8	1314.0	1240.0	1162.9	1132.1
6964.3	47.5°	5401.7	3356.3	1471.1	1268.8	1193.8	1214.3	1229.7	1173.2	1130.1	1092.1
7549.9	50°	5894.8	3516.6	1370.5	1175.3	1135.2	1176.3	1154.7	1121.8	1071.5	1040.7
8480.6	52.5°	6507.1	3611.1	1281.1	1091.0	1084.9	1126.0	1095.1	1064.3	1026.3	985.2
9186.4	55°	6924.2	3628.5	1206.1	1029.4	1051.0	1046.9	1035.5	1007.8	987.3	932.8
9882.9	57.5°	7390.6	3663.5	1144.4	992.4	1029.4	984.2	980.1	956.4	929.7	892.8
10732.5	60°	7948.5	3717.9	1091.0	978.0	1010.9	943.1	922.5	913.3	886.6	868.1
11754.7	62.5°	8556.6	3767.2	1036.6	980.1	989.3	903.0	872.2	869.1	852.7	846.5
12714.2	65°	8971.7	3632.6	968.8	978.0	955.4	861.9	822.9	821.9	808.5	806.5
13130.3	67.5°	8826.8	3206.3	877.3	949.3	920.5	820.8	777.7	773.6	756.1	757.1
12695.8	70°	8101.5	2598.1	751.0	878.4	877.3	783.9	730.4	717.1	693.4	697.6
11038.7	72.5°	6741.3	1925.2	581.5	760.2	808.5	750.0	676.0	654.4	624.6	628.7
8148.8	75°	4868.5	1308.8	423.3	578.4	703.7	709.9	622.6	585.6	549.6	555.8
4535.7	77.5°	2491.3	741.7	311.3	398.6	552.7	645.2	574.3	525.0	516.7	574.3
1307.8	80°	812.6	371.9	215.7	279.4	362.6	528.0	503.4	446.9	444.8	458.2
274.3	82.5°	242.5	157.2	138.7	183.9	200.3	404.8	434.6	338.0	290.7	306.1
91.4	85°	83.2	76.0	79.1	91.4	95.5	237.3	304.1	224.0	211.6	233.2
20.5	87.5°	19.5	26.7	22.6	20.5	20.5	57.5	118.1	93.5	129.4	86.3
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°
2335.1
1846.1
1677.6
1700.2
1757.8
1807.1
1834.8
1830.7
1785.5
1709.5
1627.3
1552.3
1489.6
1461.9
1422.9
1353.0
1224.6
1153.7
1137.3
1091.0
1037.6
977.0
933.8
880.4
873.2
846.5
805.4
757.1
701.7
627.7
557.8
566.1
393.5
316.4
230.1
83.2
0.0

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