

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: P950703

Luminaire Tested: **GALN-SB5A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950703
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-SB5A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20070 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

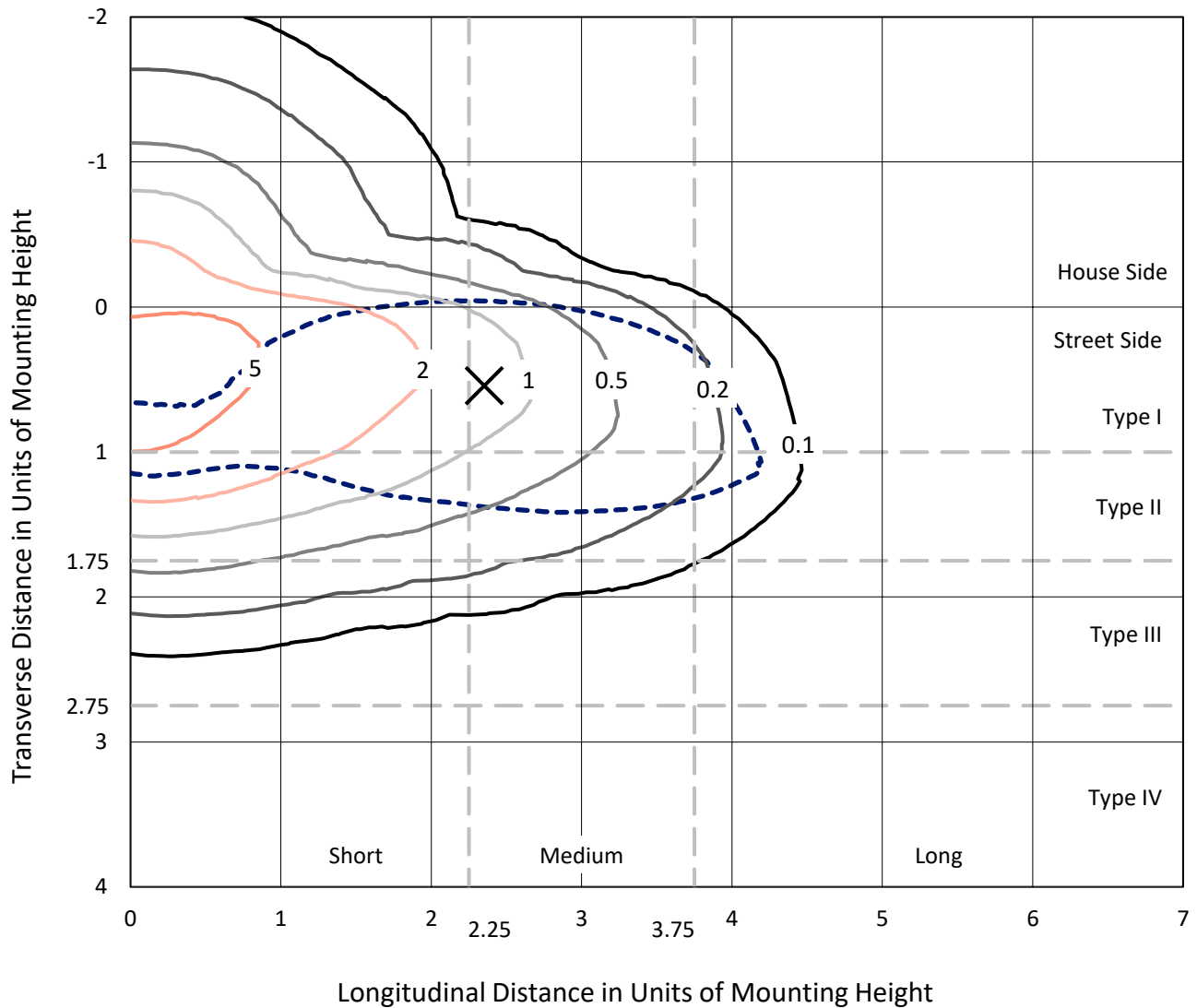
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

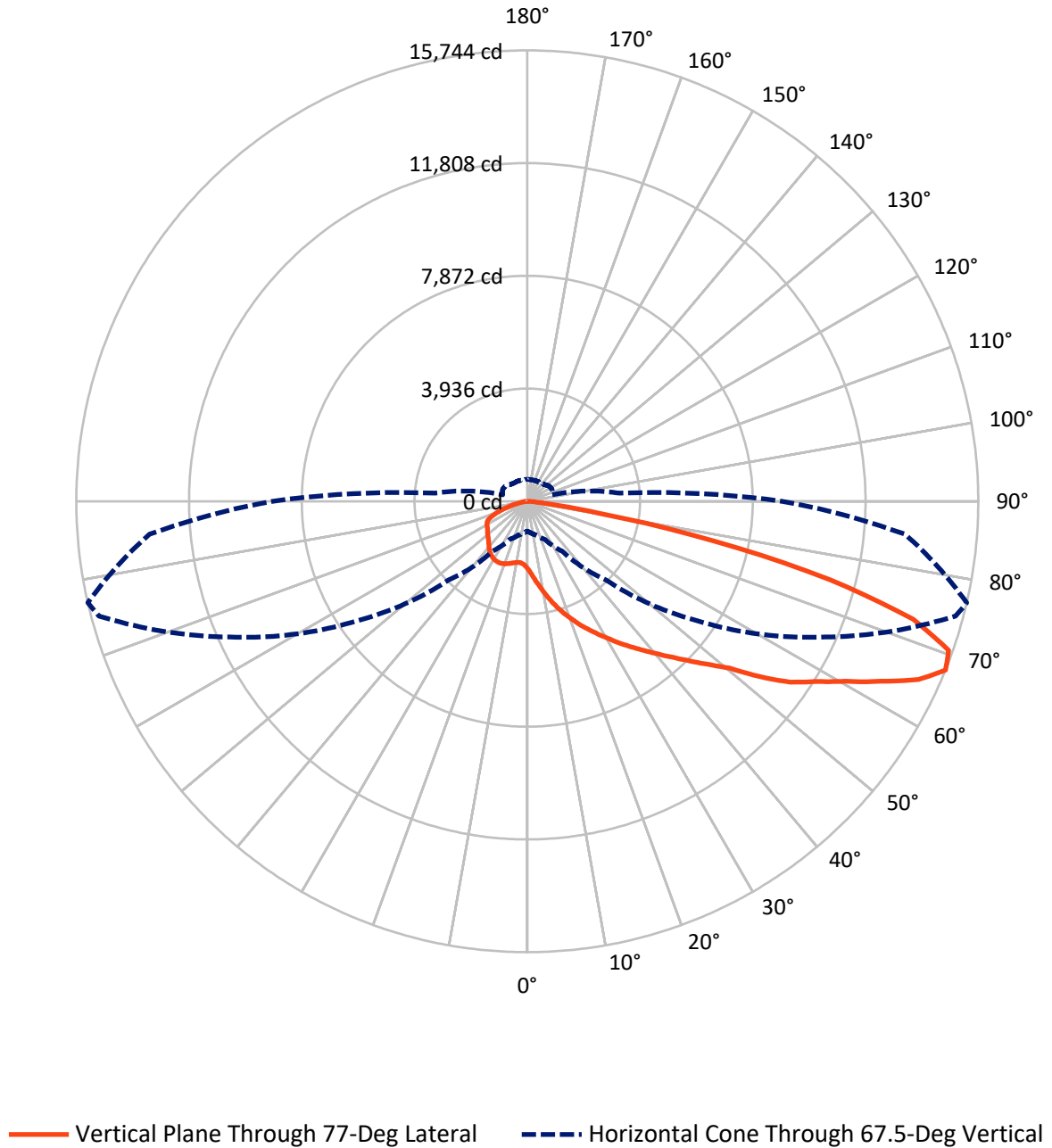
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3796.4	0.0	3796.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16273.6	0.0	16273.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	20070.0	0.0	20070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	1.3
10°-20°	906.8	4.5
20°-30°	1712.1	8.5
30°-40°	2758.2	13.7
40°-50°	3772.7	18.8
50°-60°	4255.6	21.2
60°-70°	3972.1	19.8
70°-80°	2177.4	10.8
80°-90°	262.6	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°	20070.0	100.0
0°-180°	20070.0	100.0

Coefficient of Utilization



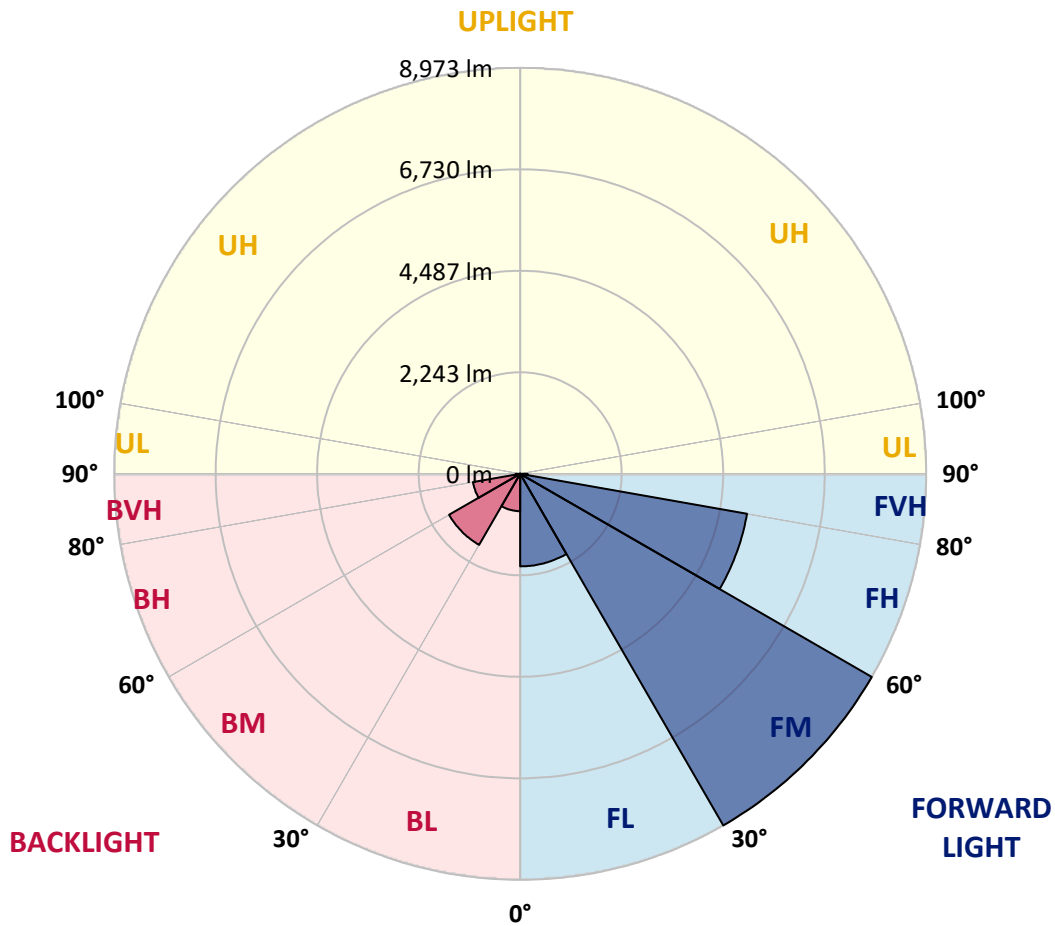
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.9	10.2			
FM (30°-60°)	8973.1	44.7			
FH (60°-80°)	5090.3	25.4			G3/7500
FVH (80°-90°)	164.2	0.8			G2/225
BL (0°-30°)	825.4	4.1	B2/1000		
BM (30°-60°)	1813.5	9.0	B2/2500		
BH (60°-80°)	1059.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	98.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8
2.5°	2948.5	2969.2	2943.3	2943.3	2856.3	2810.7	2723.7	2657.3	2538.2	2517.5
5°	3485.1	3511.0	3474.8	3459.2	3356.6	3262.4	3116.3	2972.3	2759.9	2738.2
7.5°	3900.6	3933.7	3901.6	3885.0	3793.8	3688.2	3517.2	3316.2	3016.8	2974.4
10°	4239.3	4244.5	4234.1	4240.4	4168.9	4081.9	3906.8	3672.6	3298.6	3240.6
12.5°	4431.0	4454.8	4475.5	4512.8	4500.4	4446.5	4289.1	4009.3	3597.0	3522.4
15°	4521.1	4562.6	4609.2	4695.2	4764.6	4778.0	4657.9	4370.9	3900.6	3810.4
17.5°	4553.2	4592.6	4666.2	4790.5	4939.7	5040.2	4986.3	4722.1	4201.0	4097.4
20°	4715.9	4727.3	4771.8	4889.9	5051.5	5218.3	5258.8	5059.8	4498.3	4381.3
22.5°	5064.0	5041.2	5053.6	5107.5	5223.5	5385.1	5477.3	5358.2	4803.9	4669.3
25°	5639.0	5572.7	5506.4	5444.2	5503.2	5594.4	5699.1	5656.6	5124.1	4953.1
27.5°	6365.2	6284.4	6138.3	5934.2	5862.7	5894.9	5941.5	5933.2	5420.4	5247.4
30°	7080.0	6985.8	6811.7	6516.5	6327.9	6243.0	6207.7	6183.9	5742.6	5558.2
32.5°	7650.9	7576.3	7405.3	7074.9	6801.4	6656.3	6539.3	6454.3	6079.3	5894.9
35°	8150.2	8080.8	7885.0	7524.5	7227.2	7072.8	6919.5	6738.2	6429.4	6243.0
37.5°	8606.1	8536.7	8268.3	7893.3	7593.9	7487.2	7350.4	7042.7	6780.6	6604.5
40°	8894.1	8878.5	8627.8	8203.1	7892.3	7839.4	7793.8	7396.0	7170.2	7006.5
42.5°	8967.6	9001.8	8802.9	8453.8	8157.5	8115.0	8221.7	7795.9	7607.4	7450.9
45°	8790.5	8888.9	8758.4	8521.1	8346.0	8323.2	8600.9	8233.1	8091.2	7948.2
47.5°	8341.9	8508.7	8454.8	8421.7	8396.8	8495.2	8934.5	8697.2	8639.2	8514.9
50°	7436.4	7752.4	7846.7	8056.0	8296.3	8628.9	9238.0	9203.8	9279.5	9154.1
52.5°	5871.0	6306.1	6853.2	7377.4	7987.6	8584.3	9571.6	9931.1	10250.2	10181.8
55°	4846.4	5042.2	5462.8	6424.3	7388.8	8396.8	9721.9	10518.5	11213.7	11152.6
57.5°	4059.1	4234.1	4493.1	5296.0	6483.3	7971.0	9815.1	10877.0	11873.6	11867.4
60°	3214.7	3400.2	3665.4	4234.1	5425.5	7235.4	9794.4	11285.2	12715.9	12767.7
62.5°	2261.6	2465.7	2759.9	3290.3	4345.0	6282.3	9371.7	11580.4	13707.4	13848.3
65°	1486.7	1621.3	1843.0	2301.0	3237.5	5056.7	8564.6	11618.8	14768.2	15006.5
67.5°	1042.2	1094.0	1224.6	1473.2	2134.2	3877.8	7279.0	11222.0	15475.8	15744.1
70°	813.3	839.2	905.5	1004.9	1340.6	2607.6	5577.8	10190.1	15324.6	15604.3
72.5°	702.4	727.3	752.1	764.6	899.3	1609.9	3778.3	8520.1	13900.1	14089.6
75°	637.1	643.4	664.1	659.9	685.8	1044.3	2180.8	6207.7	10967.1	10901.9
77.5°	535.6	543.9	578.1	572.9	609.2	713.8	1132.4	4006.2	7110.1	6666.7
80°	453.8	457.9	495.2	489.0	529.4	517.0	578.1	2042.0	3015.8	2554.8
82.5°	157.5	194.8	378.1	389.5	404.0	312.9	333.6	832.9	921.0	705.5
85°	76.7	81.8	192.7	273.5	272.5	157.5	162.7	297.3	290.1	227.9
87.5°	12.4	15.5	22.8	106.7	85.0	41.4	55.9	58.0	60.1	51.8
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°
2354.8	0°	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8
2438.8	2.5°	2380.7	2328.9	2220.2	2119.7	2040.9	1965.3	1922.8	1886.6	1865.8	1861.7
2552.7	5°	2445.0	2338.3	2140.4	1973.6	1864.8	1784.0	1741.5	1714.6	1701.1	1692.8
2706.0	7.5°	2537.2	2380.7	2098.9	1909.4	1795.4	1737.4	1715.6	1711.5	1710.4	1711.5
2891.5	10°	2664.6	2450.1	2094.8	1893.8	1798.5	1766.4	1765.3	1766.4	1770.5	1771.6
3093.5	12.5°	2802.4	2521.6	2111.4	1907.3	1837.9	1820.3	1817.1	1816.1	1819.2	1821.3
3297.6	15°	2952.6	2615.9	2139.3	1936.3	1881.4	1862.7	1859.6	1853.4	1852.4	1851.3
3512.0	17.5°	3107.0	2709.1	2170.4	1967.4	1909.4	1883.5	1872.1	1857.6	1846.2	1843.0
3733.8	20°	3263.4	2801.4	2192.2	1982.9	1911.4	1875.2	1852.4	1827.5	1807.8	1796.4
3957.5	22.5°	3430.2	2897.7	2205.7	1978.8	1892.8	1843.0	1801.6	1772.6	1742.6	1722.9
4183.4	25°	3592.9	2981.6	2204.6	1957.0	1856.5	1793.3	1740.5	1703.2	1661.7	1641.0
4416.5	27.5°	3749.3	3057.2	2178.7	1918.7	1804.7	1734.3	1671.1	1626.5	1586.1	1566.4
4651.7	30°	3910.9	3120.4	2138.3	1862.7	1743.6	1665.9	1596.5	1558.1	1521.9	1503.2
4900.3	32.5°	4071.5	3178.5	2081.3	1793.3	1673.1	1598.6	1530.2	1495.0	1473.2	1473.2
5167.6	35°	4241.4	3218.9	2005.7	1712.5	1598.6	1527.1	1473.2	1452.5	1450.4	1438.0
5450.4	37.5°	4420.6	3244.8	1913.5	1629.6	1525.0	1457.7	1441.1	1416.2	1395.5	1368.6
5761.2	40°	4609.2	3270.7	1802.6	1543.6	1447.3	1410.0	1402.7	1369.6	1310.5	1244.2
6113.5	42.5°	4838.1	3288.3	1687.6	1457.7	1365.5	1353.0	1363.4	1306.4	1212.1	1162.4
6538.2	45°	5103.4	3317.3	1582.0	1372.7	1281.5	1281.5	1325.0	1250.5	1172.8	1141.7
7023.1	47.5°	5447.3	3384.6	1483.6	1279.5	1203.8	1224.6	1240.1	1183.1	1139.6	1101.3
7613.6	50°	5944.6	3546.2	1382.0	1185.2	1144.8	1186.2	1164.5	1131.3	1080.6	1049.5
8552.2	52.5°	6562.0	3641.6	1291.9	1100.2	1094.0	1135.5	1104.4	1073.3	1035.0	993.5
9263.9	55°	6982.7	3659.2	1216.3	1038.1	1059.8	1055.7	1044.3	1016.3	995.6	940.7
9966.3	57.5°	7453.0	3694.4	1154.1	1000.8	1038.1	992.5	988.3	964.5	937.6	900.3
10823.1	60°	8015.6	3749.3	1100.2	986.3	1019.4	951.1	930.3	921.0	894.1	875.4
11853.9	62.5°	8628.9	3799.0	1045.3	988.3	997.7	910.6	879.6	876.5	859.9	853.7
12821.6	65°	9047.4	3663.3	977.0	986.3	963.5	869.2	829.8	828.8	815.3	813.3
13241.2	67.5°	8901.3	3233.4	884.7	957.3	928.3	827.8	784.3	780.1	762.5	763.5
12802.9	70°	8169.9	2620.1	757.3	885.8	884.7	790.5	736.6	723.1	699.3	703.4
11131.9	72.5°	6798.3	1941.5	586.4	766.6	815.3	756.3	681.7	659.9	629.9	634.0
8217.6	75°	4909.6	1319.9	426.8	583.3	709.7	715.9	627.8	590.5	554.3	560.5
4574.0	77.5°	2512.3	748.0	313.9	402.0	557.4	650.6	579.1	529.4	521.1	579.1
1318.8	80°	819.5	375.0	217.6	281.8	365.7	532.5	507.6	450.7	448.6	462.1
276.6	82.5°	244.5	158.5	139.9	185.4	202.0	408.2	438.2	340.8	293.2	308.7
92.2	85°	83.9	76.7	79.8	92.2	96.3	239.3	306.7	225.8	213.4	235.2
20.7	87.5°	19.7	26.9	22.8	20.7	20.7	58.0	119.1	94.3	130.5	87.0
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>
2354.8
1861.7
1691.8
1714.6
1772.6
1822.3
1850.3
1846.2
1800.6
1723.9
1641.0
1565.4
1502.2
1474.2
1434.9
1364.4
1234.9
1163.4
1146.9
1100.2
1046.4
985.2
941.7
887.9
880.6
853.7
812.2
763.5
707.6
633.0
562.5
570.8
396.8
319.1
232.1
83.9
0.0

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