

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: P940829

Luminaire Tested: **GALN-SB4A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15451 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

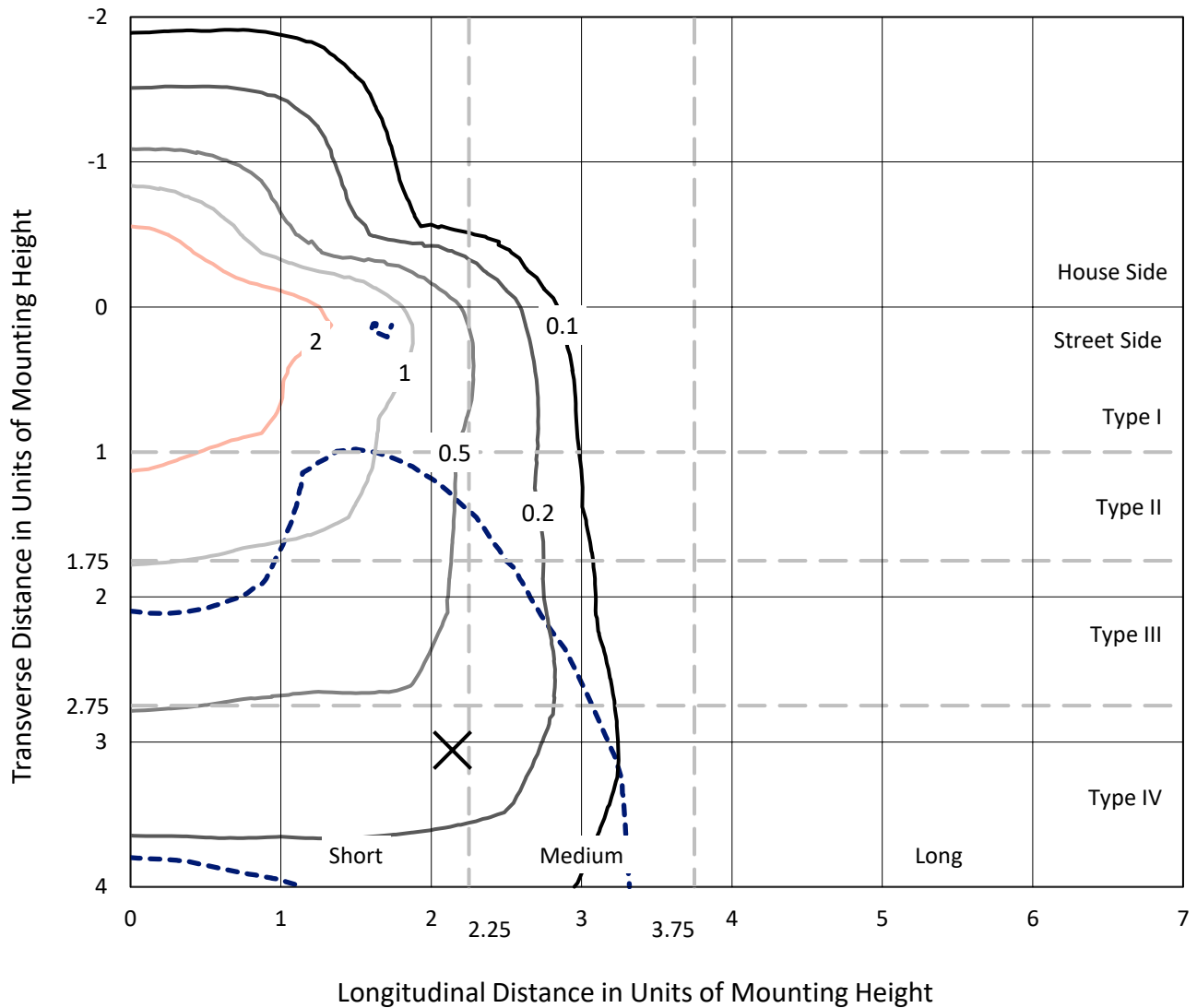
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

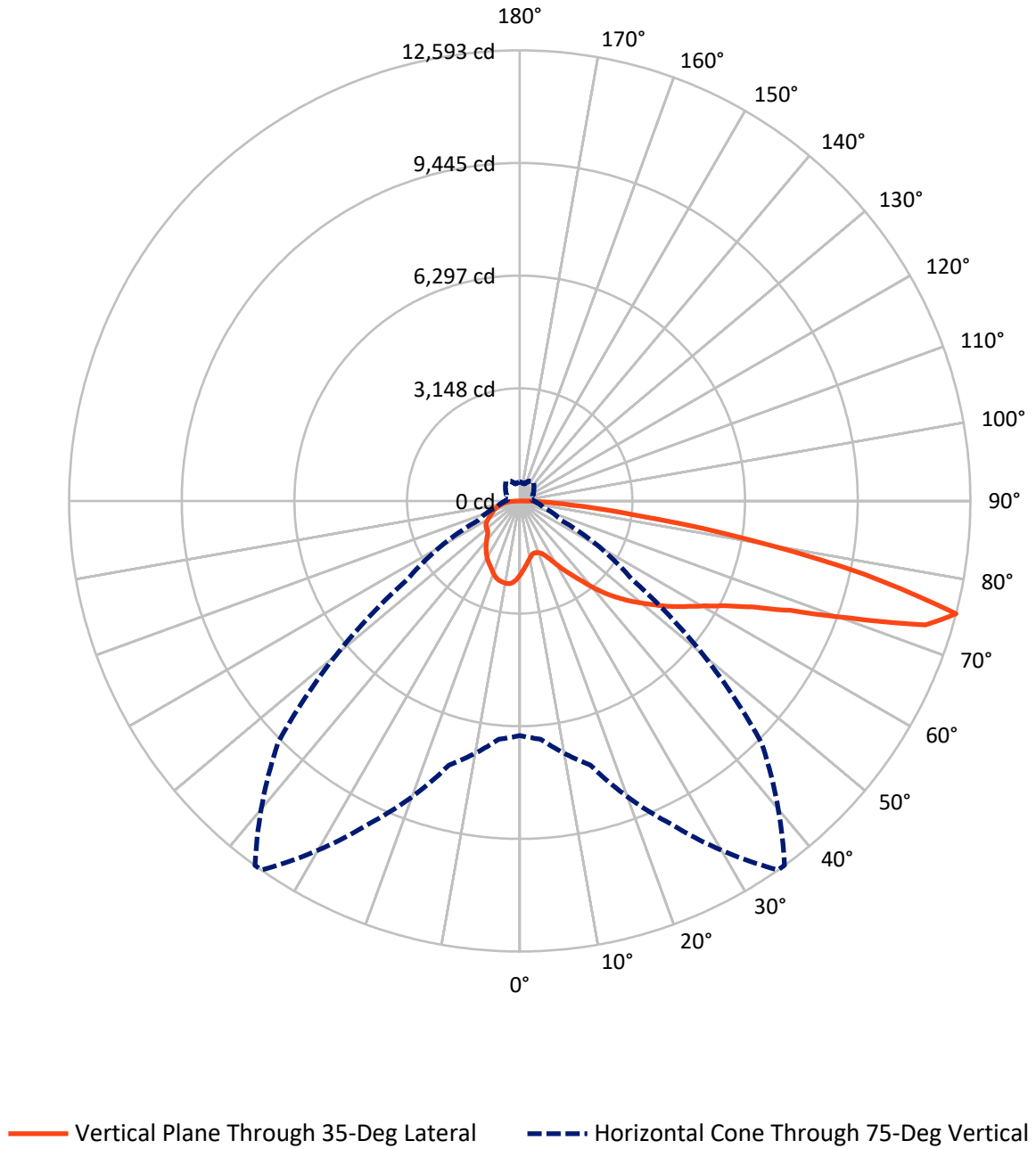
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3677.0	0.0	3677.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11774.1	0.0	11774.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	15451.0	0.0	15451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.3
10°-20°	562.3	3.6
20°-30°	944.2	6.1
30°-40°	1467.5	9.5
40°-50°	2178.1	14.1
50°-60°	3007.0	19.5
60°-70°	3648.2	23.6
70°-80°	3015.0	19.5
80°-90°	433.6	2.8
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°	15451.0	100.0
0°-180°	15451.0	100.0

Coefficient of Utilization



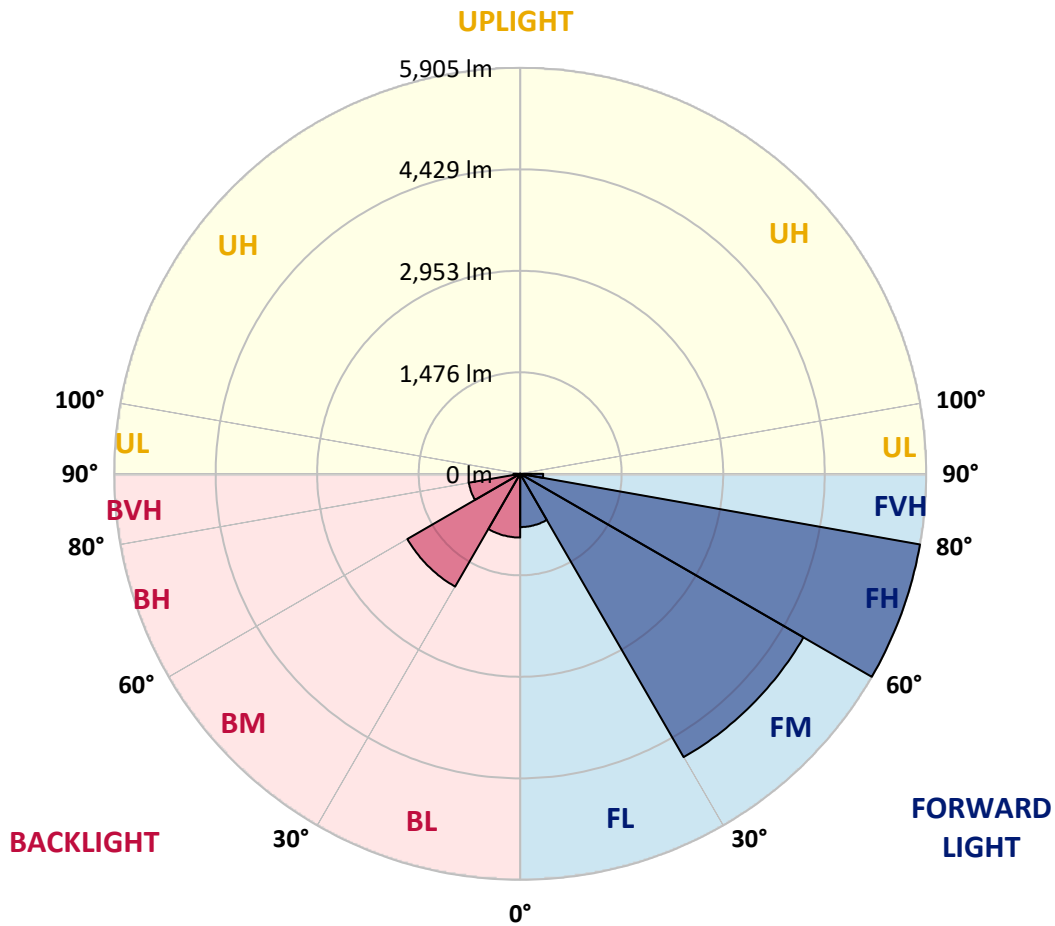
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.8	5.0			
FM (30°-60°)	4758.1	30.8			
FH (60°-80°)	5905.1	38.2			G3/7500
FVH (80°-90°)	336.0	2.2			G3/500
BL (0°-30°)	926.6	6.0	B2/1000		
BM (30°-60°)	1894.6	12.3	B2/2500		
BH (60°-80°)	758.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	97.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2.5°	1898.6	1910.3	1915.3	1912.8	1925.3	1923.6	1941.2	1962.9	1993.0	2022.2
5°	1752.4	1764.9	1775.8	1785.8	1810.0	1817.6	1845.1	1886.9	1942.0	1998.0
7.5°	1616.3	1627.1	1643.8	1662.2	1703.1	1710.6	1756.6	1821.7	1898.6	1980.4
10°	1505.2	1516.0	1533.6	1554.4	1605.4	1614.6	1673.1	1759.9	1860.2	1963.7
12.5°	1457.6	1460.9	1470.9	1491.8	1536.1	1541.9	1606.2	1705.6	1822.6	1951.2
15°	1455.0	1461.7	1462.6	1473.4	1510.2	1512.7	1572.0	1670.5	1799.2	1948.7
17.5°	1480.1	1485.1	1477.6	1484.3	1515.2	1519.4	1566.1	1653.8	1791.7	1959.6
20°	1546.9	1551.1	1528.6	1519.4	1541.9	1545.3	1591.2	1664.7	1799.2	1982.1
22.5°	1688.9	1691.4	1636.3	1598.7	1600.4	1602.1	1642.1	1709.0	1828.4	2023.0
25°	1910.3	1908.6	1820.9	1748.2	1706.5	1697.3	1724.0	1780.8	1877.7	2077.3
27.5°	2169.2	2156.7	2069.0	1960.4	1869.3	1856.0	1850.1	1874.4	1947.9	2149.2
30°	2461.6	2449.9	2355.5	2213.5	2087.3	2065.6	2010.5	1998.0	2052.3	2246.9
32.5°	2782.3	2774.8	2662.0	2490.0	2321.2	2296.2	2203.5	2170.0	2212.6	2394.7
35°	3051.3	3044.6	2951.0	2773.9	2567.6	2536.7	2442.3	2404.8	2426.5	2584.3
37.5°	3294.3	3291.0	3210.8	3071.3	2858.3	2820.7	2714.6	2702.1	2697.9	2834.1
40°	3519.8	3511.5	3428.0	3354.5	3196.6	3162.3	3068.8	3057.9	3026.2	3141.5
42.5°	3769.6	3747.9	3626.8	3592.5	3549.9	3521.5	3465.6	3467.2	3397.1	3488.1
45°	3973.4	3960.9	3836.4	3816.4	3862.3	3850.6	3899.1	3911.6	3775.4	3851.4
47.5°	4192.2	4180.5	4075.3	4061.1	4185.6	4188.9	4360.1	4364.3	4144.6	4229.0
50°	4462.0	4445.3	4340.9	4358.5	4498.0	4510.5	4823.7	4795.3	4484.6	4612.4
52.5°	4639.9	4650.0	4627.4	4655.8	4846.3	4858.0	5279.8	5207.1	4821.2	4990.8
55°	4771.1	4791.1	4861.3	4926.4	5213.8	5225.5	5709.9	5598.8	5100.2	5341.6
57.5°	4939.8	4911.4	5042.5	5169.5	5562.9	5593.8	6128.4	5976.4	5347.4	5643.9
60°	5182.0	5162.0	5263.9	5451.8	5953.8	6003.1	6571.1	6316.3	5528.7	5883.7
62.5°	5673.2	5623.1	5638.9	5805.2	6446.6	6511.8	7070.6	6612.9	5618.9	5977.2
65°	6407.4	6321.4	6241.2	6356.4	7140.8	7205.1	7634.4	6845.9	5585.5	5796.0
67.5°	7332.0	7246.8	7148.3	7256.9	8163.1	8214.1	8330.2	6977.0	5322.4	5097.7
70°	8094.6	8062.9	8180.7	8627.5	9796.1	9797.8	9222.3	6868.5	4601.5	3614.2
72.5°	7993.6	7974.4	8595.0	9976.5	11854.2	11809.9	10066.7	6046.5	3099.7	1630.5
75°	6557.7	6682.2	7643.6	9952.3	12593.4	12587.6	9549.7	3843.9	1282.1	675.7
77.5°	3516.5	3713.6	4962.4	7347.9	9831.2	9979.0	6713.9	1344.8	550.4	432.7
80°	1146.8	1318.9	1977.9	3741.2	6388.2	6360.6	2877.5	527.9	376.7	306.5
82.5°	487.0	507.0	883.7	1766.6	3278.5	3227.5	916.3	303.2	264.8	209.7
85°	190.4	213.0	390.1	816.9	1420.0	1389.1	330.8	150.3	169.6	137.0
87.5°	62.6	76.0	139.5	279.8	441.9	426.0	81.0	51.8	73.5	62.6
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°
2059.0	0°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2064.8	2.5°	2076.5	2089.9	2105.7	2129.1	2149.2	2165.9	2183.4	2194.3	2198.4	2211.0
2068.1	5°	2091.5	2120.8	2160.0	2198.4	2236.0	2258.6	2278.6	2288.7	2297.8	2304.5
2077.3	7.5°	2116.6	2154.2	2216.0	2266.1	2297.8	2316.2	2329.6	2326.2	2329.6	2331.2
2087.3	10°	2138.3	2190.9	2264.4	2312.0	2336.3	2337.1	2333.8	2322.1	2316.2	2317.0
2102.4	12.5°	2164.2	2222.7	2302.0	2342.1	2348.8	2330.4	2316.2	2296.2	2288.7	2285.3
2124.9	15°	2199.3	2266.1	2342.9	2358.0	2341.3	2317.9	2293.7	2261.1	2244.4	2231.0
2163.4	17.5°	2241.9	2315.4	2374.7	2363.8	2327.9	2289.5	2250.2	2200.9	2166.7	2152.5
2216.0	20°	2301.2	2367.2	2398.9	2351.3	2297.0	2238.5	2171.7	2111.6	2079.8	2065.6
2282.8	22.5°	2373.0	2436.5	2422.3	2329.6	2252.7	2159.2	2075.7	2031.4	2015.5	2005.5
2368.8	25°	2459.0	2513.3	2439.0	2297.8	2180.1	2053.9	1989.6	1975.4	1967.9	1960.4
2474.1	27.5°	2571.0	2600.2	2451.5	2251.1	2066.5	1942.0	1918.6	1921.1	1918.6	1906.1
2620.3	30°	2718.8	2713.0	2463.2	2175.1	1936.2	1840.9	1842.6	1853.5	1855.1	1846.8
2824.1	32.5°	2913.4	2854.1	2469.1	2076.5	1811.7	1752.4	1754.1	1765.8	1774.1	1759.9
3090.5	35°	3149.0	3018.7	2459.9	1952.9	1715.7	1668.0	1655.5	1658.9	1661.4	1648.0
3413.8	37.5°	3423.8	3203.3	2419.0	1815.9	1636.3	1585.3	1558.6	1536.1	1522.7	1510.2
3779.6	40°	3725.3	3404.6	2343.8	1682.2	1547.8	1497.6	1457.6	1415.0	1369.8	1353.1
4167.2	42.5°	4041.1	3611.7	2252.7	1554.4	1445.9	1404.9	1362.3	1300.5	1232.9	1198.6
4569.8	45°	4368.5	3823.9	2163.4	1428.3	1341.4	1323.9	1274.6	1200.3	1126.8	1083.4
4973.2	47.5°	4689.2	4024.3	2032.2	1301.4	1243.7	1262.9	1224.5	1156.0	1074.2	1005.7
5373.3	50°	4995.8	4212.3	1817.6	1172.7	1164.4	1244.6	1207.8	1109.2	1015.7	928.0
5765.9	52.5°	5299.8	4364.3	1542.8	1055.8	1121.8	1239.5	1186.1	1077.5	963.1	871.2
6135.1	55°	5557.9	4442.8	1278.0	955.6	1060.0	1196.9	1160.2	1039.9	888.7	791.0
6388.2	57.5°	5704.9	4379.3	1057.5	857.0	974.8	1126.8	1115.9	959.7	800.2	725.0
6437.5	60°	5641.4	4122.1	877.0	771.0	893.7	1050.8	1039.1	880.4	732.5	661.5
6173.5	62.5°	5291.5	3631.8	734.2	695.8	820.2	973.1	962.2	819.4	680.7	612.3
5472.7	65°	4586.5	2954.4	623.1	633.1	745.9	879.5	895.4	768.5	639.8	573.0
4234.0	67.5°	3498.1	2140.0	536.2	578.8	673.2	787.7	833.6	731.7	605.6	542.1
2449.9	70°	1993.8	1215.3	462.7	526.2	608.9	702.5	786.0	702.5	568.8	516.2
918.0	72.5°	755.9	558.0	400.1	473.6	547.1	630.6	733.4	656.5	526.2	487.0
474.4	75°	403.4	340.0	336.6	411.8	476.1	560.5	667.4	611.4	494.5	514.5
328.3	77.5°	274.8	240.6	281.5	352.5	398.4	482.8	597.2	542.9	428.5	426.8
227.2	80°	190.4	170.4	228.9	284.0	308.2	405.9	521.2	466.1	349.1	325.8
140.3	82.5°	114.4	111.1	171.2	212.2	218.0	313.2	431.8	390.9	285.7	248.9
83.5	85°	62.6	66.0	109.4	124.5	127.0	218.8	338.3	302.4	219.7	184.6
30.1	87.5°	17.5	22.6	40.1	49.3	61.0	113.6	201.3	179.6	110.3	76.8
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>
2059.0
2210.1
2306.2
2333.8
2318.7
2283.6
2235.2
2153.3
2064.0
2007.2
1960.4
1908.6
1851.0
1766.6
1657.2
1518.5
1360.7
1202.8
1080.0
998.2
920.5
861.2
782.7
715.0
651.5
601.4
562.1
532.1
509.5
480.3
531.2
393.4
311.6
250.6
186.3
76.8
0.0

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