

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: P941569

Luminaire Tested: **GALN-SB5A-930-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941569
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-SB5A-930-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15580 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

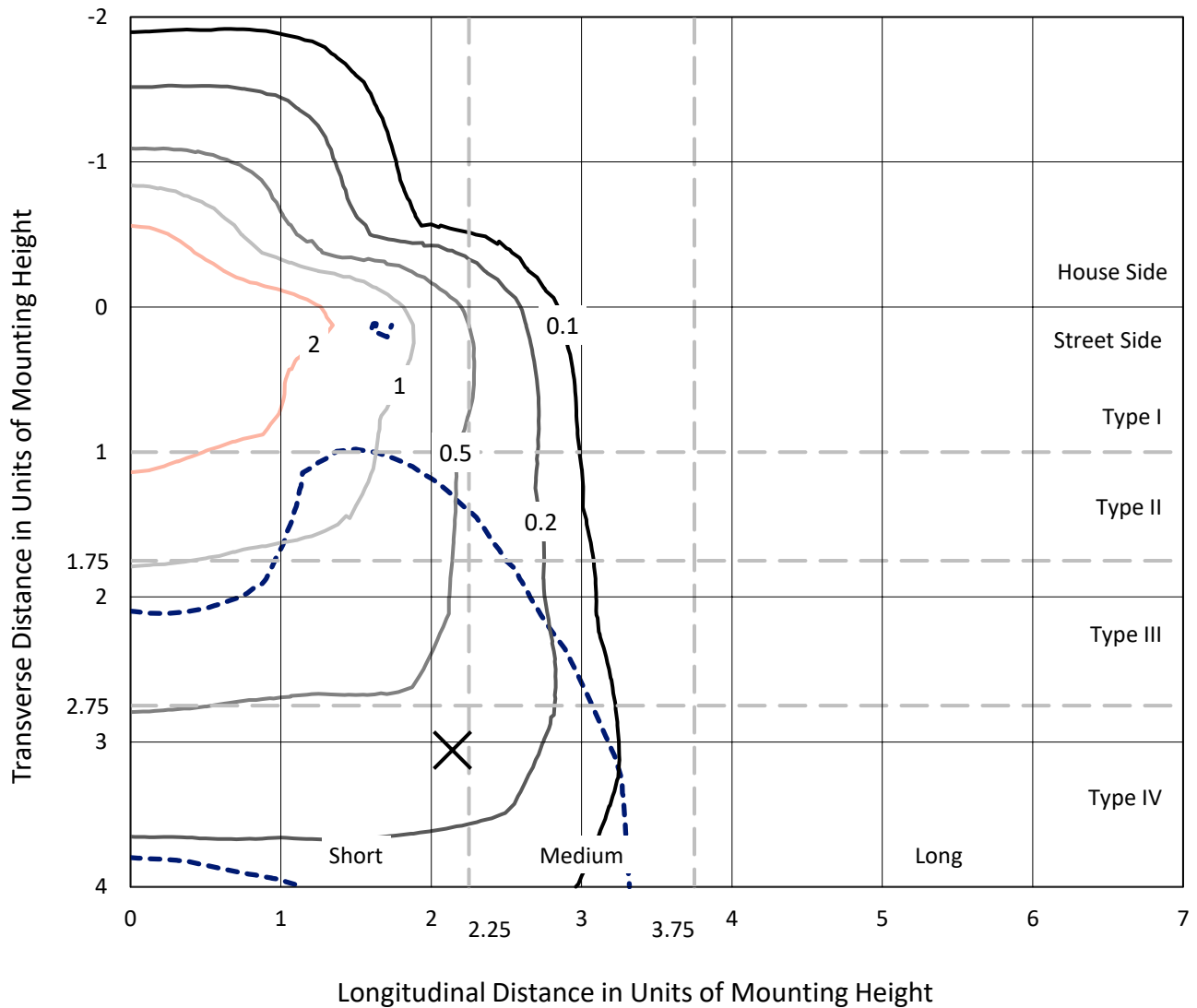
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

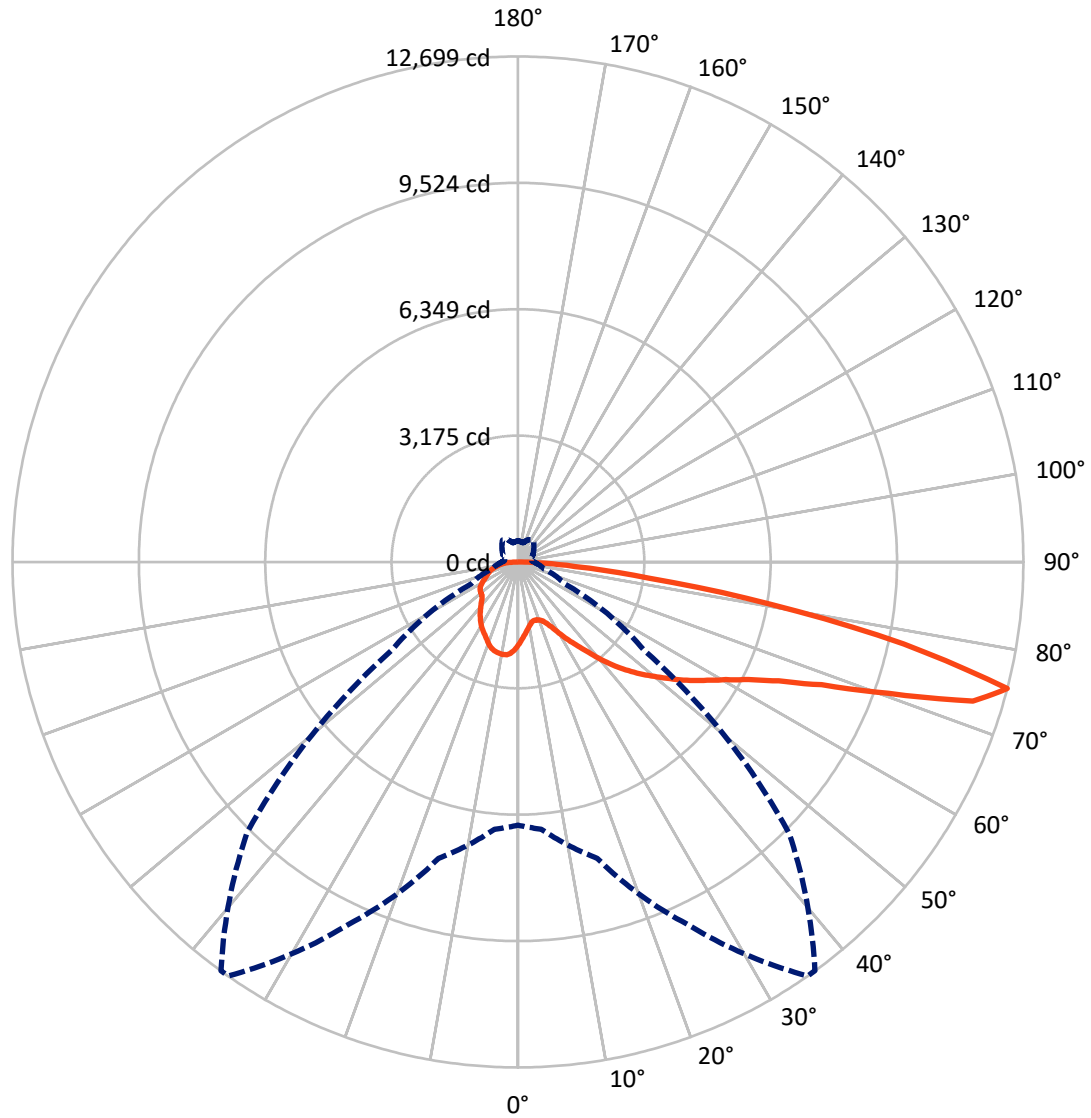
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3707.6	0.0	3707.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11872.3	0.0	11872.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	15580.0	0.0	15580.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.3
10°-20°	567.0	3.6
20°-30°	952.1	6.1
30°-40°	1479.7	9.5
40°-50°	2196.3	14.1
50°-60°	3032.1	19.5
60°-70°	3678.7	23.6
70°-80°	3040.2	19.5
80°-90°	437.3	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°	15580.0	100.0
0°-180°	15580.0	100.0



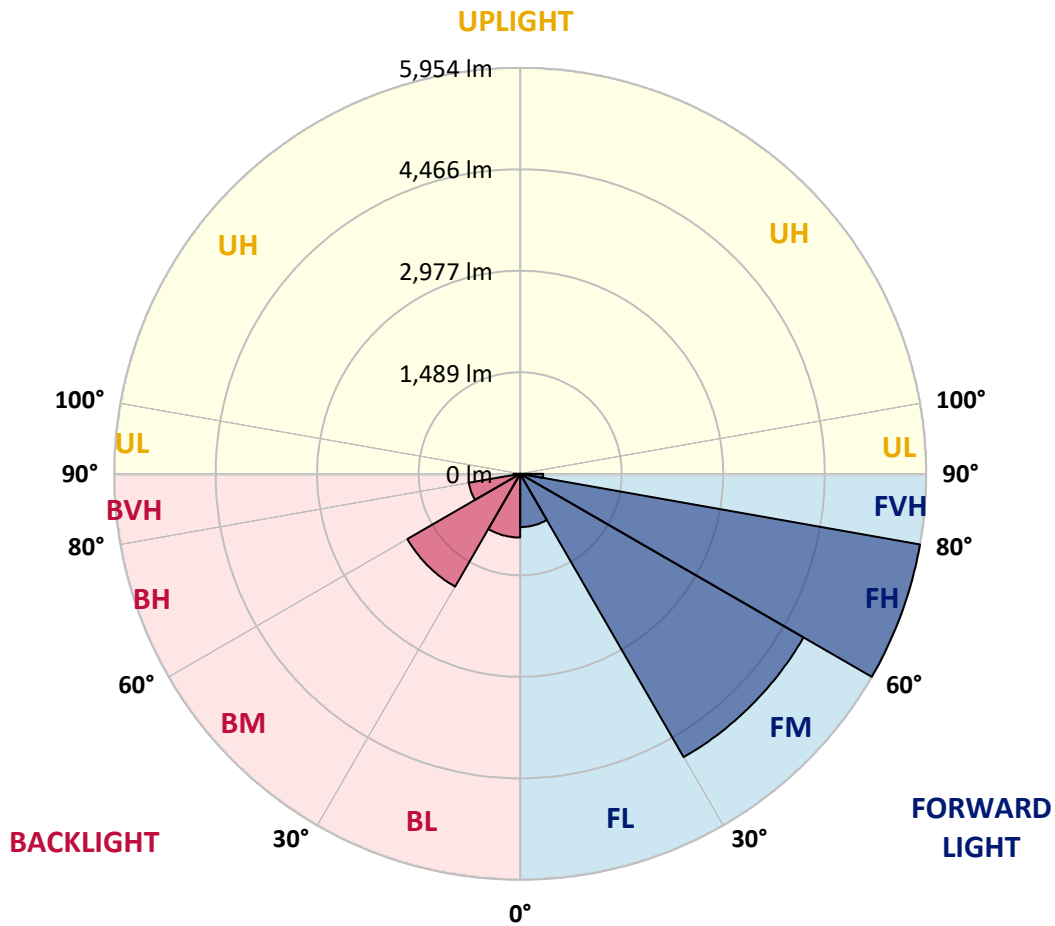
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.3	5.0			
FM (30°-60°)	4797.8	30.8			
FH (60°-80°)	5954.4	38.2			G3/7500
FVH (80°-90°)	338.8	2.2			G3/500
BL (0°-30°)	934.4	6.0	B2/1000		
BM (30°-60°)	1910.4	12.3	B2/2500		
BH (60°-80°)	764.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	98.5	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°	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1
2.5°	1914.4	1926.2	1931.3	1928.7	1941.4	1939.7	1957.4	1979.3	2009.6	2039.1
5°	1767.0	1779.7	1790.6	1800.7	1825.2	1832.7	1860.5	1902.6	1958.2	2014.7
7.5°	1629.7	1640.7	1657.5	1676.1	1717.3	1724.9	1771.2	1836.9	1914.4	1997.0
10°	1517.7	1528.7	1546.4	1567.4	1618.8	1628.1	1687.0	1774.6	1875.7	1980.1
12.5°	1469.7	1473.1	1483.2	1504.3	1548.9	1554.8	1619.6	1719.9	1837.8	1967.5
15°	1467.2	1473.9	1474.8	1485.7	1522.8	1525.3	1585.1	1684.5	1814.2	1965.0
17.5°	1492.5	1497.5	1489.9	1496.7	1527.8	1532.0	1579.2	1667.7	1806.6	1975.9
20°	1559.8	1564.1	1541.3	1532.0	1554.8	1558.2	1604.5	1678.6	1814.2	1998.7
22.5°	1703.0	1705.6	1650.0	1612.1	1613.7	1615.4	1655.9	1723.2	1843.7	2039.9
25°	1926.2	1924.5	1836.1	1762.8	1720.7	1711.4	1738.4	1795.7	1893.4	2094.7
27.5°	2187.3	2174.7	2086.2	1976.8	1885.0	1871.5	1865.6	1890.0	1964.1	2167.1
30°	2482.1	2470.3	2375.1	2232.0	2104.8	2082.9	2027.3	2014.7	2069.4	2265.6
32.5°	2805.5	2797.9	2684.2	2510.7	2340.6	2315.3	2221.8	2188.2	2231.1	2414.7
35°	3076.7	3070.0	2975.7	2797.1	2589.1	2557.9	2462.7	2424.8	2446.7	2605.9
37.5°	3321.8	3318.5	3237.6	3096.9	2882.2	2844.3	2737.3	2724.7	2720.5	2857.7
40°	3549.2	3540.8	3456.6	3382.5	3223.3	3188.7	3094.4	3083.5	3051.5	3167.7
42.5°	3801.1	3779.2	3657.0	3622.5	3579.6	3550.9	3494.5	3496.2	3425.4	3517.2
45°	4006.6	3993.9	3868.4	3848.2	3894.6	3882.8	3931.6	3944.2	3807.0	3883.6
47.5°	4227.2	4215.4	4109.3	4095.0	4220.5	4223.9	4396.5	4400.7	4179.2	4264.3
50°	4499.3	4482.4	4377.2	4394.8	4535.5	4548.1	4864.0	4835.3	4522.0	4650.9
52.5°	4678.7	4688.8	4666.1	4694.7	4886.7	4898.5	5323.8	5250.6	4861.5	5032.4
55°	4810.9	4831.1	4901.9	4967.6	5257.3	5269.1	5757.6	5645.6	5142.8	5386.2
57.5°	4981.1	4952.4	5084.6	5212.7	5609.4	5640.5	6179.6	6026.3	5392.1	5691.1
60°	5225.3	5205.1	5307.8	5497.4	6003.5	6053.2	6626.0	6369.1	5574.8	5932.8
62.5°	5720.5	5670.0	5686.0	5853.6	6500.5	6566.2	7129.6	6668.1	5665.8	6027.1
65°	6460.9	6374.1	6293.3	6409.5	7200.4	7265.2	7698.1	6903.1	5632.1	5844.4
67.5°	7393.2	7307.3	7208.0	7317.4	8231.3	8282.7	8399.7	7035.3	5366.8	5140.2
70°	8162.2	8130.2	8249.0	8699.6	9877.9	9879.6	9299.3	6925.8	4639.9	3644.4
72.5°	8060.3	8040.9	8666.7	10059.8	11953.2	11908.5	10150.8	6097.0	3125.6	1644.1
75°	6612.5	6738.0	7707.4	10035.4	12698.6	12692.7	9629.4	3876.0	1292.9	681.4
77.5°	3545.9	3744.6	5003.8	7409.3	9913.3	10062.3	6770.0	1356.0	555.0	436.3
80°	1156.4	1329.9	1994.4	3772.4	6441.5	6413.7	2901.5	532.3	379.9	309.1
82.5°	491.0	511.2	891.1	1781.4	3305.8	3254.4	923.9	305.7	267.0	211.4
85°	192.0	214.8	393.3	823.7	1431.8	1400.7	333.5	151.6	171.0	138.1
87.5°	63.2	76.6	140.7	282.2	445.5	429.5	81.7	52.2	74.1	63.2
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°
2076.1	0°	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1	2076.1
2082.0	2.5°	2093.8	2107.3	2123.3	2146.9	2167.1	2183.9	2201.6	2212.6	2216.8	2229.4
2085.4	5°	2109.0	2138.5	2178.1	2216.8	2254.7	2277.4	2297.7	2307.8	2317.0	2323.8
2094.7	7.5°	2134.3	2172.2	2234.5	2285.0	2317.0	2335.6	2349.0	2345.7	2349.0	2350.7
2104.8	10°	2156.2	2209.2	2283.3	2331.3	2355.8	2356.6	2353.2	2341.4	2335.6	2336.4
2119.9	12.5°	2182.3	2241.2	2321.2	2361.7	2368.4	2349.9	2335.6	2315.3	2307.8	2304.4
2142.7	15°	2217.6	2285.0	2362.5	2377.7	2360.8	2337.2	2312.8	2280.0	2263.1	2249.6
2181.4	17.5°	2260.6	2334.7	2394.5	2383.6	2347.3	2308.6	2269.0	2219.3	2184.8	2170.5
2234.5	20°	2320.4	2386.9	2418.9	2370.9	2316.2	2257.2	2189.8	2129.2	2097.2	2082.9
2301.9	22.5°	2392.8	2456.8	2442.5	2349.0	2271.5	2177.2	2093.0	2048.3	2032.3	2022.2
2388.6	25°	2479.6	2534.3	2459.4	2317.0	2198.3	2071.1	2006.2	1991.9	1984.3	1976.8
2494.7	27.5°	2592.4	2621.9	2472.0	2269.9	2083.7	1958.2	1934.6	1937.2	1934.6	1922.0
2642.1	30°	2741.5	2735.6	2483.8	2193.2	1952.3	1856.3	1858.0	1868.9	1870.6	1862.2
2847.6	32.5°	2937.8	2878.0	2489.7	2093.8	1826.8	1767.0	1768.7	1780.5	1788.9	1774.6
3116.3	35°	3175.3	3043.9	2480.4	1969.2	1730.0	1682.0	1669.3	1672.7	1675.2	1661.8
3442.3	37.5°	3452.4	3230.0	2439.1	1831.0	1650.0	1598.6	1571.6	1548.9	1535.4	1522.8
3811.2	40°	3756.4	3433.0	2363.3	1696.3	1560.7	1510.1	1469.7	1426.8	1381.3	1364.4
4202.0	42.5°	4074.8	3641.9	2271.5	1567.4	1457.9	1416.7	1373.7	1311.4	1243.2	1208.6
4607.9	45°	4405.0	3855.8	2181.4	1440.2	1352.6	1335.0	1285.3	1210.3	1136.2	1092.4
5014.7	47.5°	4728.4	4057.9	2049.2	1312.2	1254.1	1273.5	1234.7	1165.7	1083.1	1014.1
5418.2	50°	5037.5	4247.5	1832.7	1182.5	1174.1	1254.9	1217.9	1118.5	1024.2	935.7
5814.0	52.5°	5344.1	4400.7	1555.6	1064.6	1131.1	1249.9	1196.0	1086.5	971.1	878.5
6186.3	55°	5604.3	4479.9	1288.6	963.5	1068.8	1206.9	1169.9	1048.6	896.2	797.6
6441.5	57.5°	5752.6	4415.9	1066.3	864.1	982.9	1136.2	1125.2	967.7	806.9	731.1
6491.2	60°	5688.5	4156.5	884.4	777.4	901.2	1059.5	1047.8	887.7	738.7	667.1
6225.1	62.5°	5335.6	3662.1	740.3	701.6	827.1	981.2	970.3	826.2	686.4	617.4
5518.4	65°	4624.8	2979.0	628.3	638.4	752.1	886.9	902.9	774.9	645.2	577.8
4269.4	67.5°	3527.3	2157.8	540.7	583.7	678.9	794.2	840.6	737.8	610.6	546.6
2470.3	70°	2010.4	1225.5	466.6	530.6	614.0	708.3	792.6	708.3	573.6	520.5
925.6	72.5°	762.2	562.6	403.4	477.6	551.7	635.9	739.5	662.0	530.6	491.0
478.4	75°	406.8	342.8	339.4	415.2	480.1	565.1	673.0	616.5	498.6	518.8
331.0	77.5°	277.1	242.6	283.8	355.4	401.8	486.8	602.2	547.5	432.1	430.4
229.1	80°	192.0	171.8	230.8	286.4	310.8	409.3	525.6	470.0	352.1	328.5
141.5	82.5°	115.4	112.0	172.7	213.9	219.8	315.8	435.4	394.2	288.0	251.0
84.2	85°	63.2	66.5	110.3	125.5	128.0	220.7	341.1	304.9	221.5	186.1
30.3	87.5°	17.7	22.7	40.4	49.7	61.5	114.5	203.0	181.1	111.2	77.5
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>
2076.1
2228.6
2325.4
2353.2
2338.1
2302.7
2253.9
2171.3
2081.2
2023.9
1976.8
1924.5
1866.4
1781.4
1671.0
1531.2
1372.0
1212.8
1089.0
1006.5
928.2
868.4
789.2
721.0
657.0
606.4
566.8
536.5
513.8
484.3
535.7
396.7
314.2
252.7
187.8
77.5
0.0

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