

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: P941042

Luminaire Tested: **GALN-SB4B-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13617 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

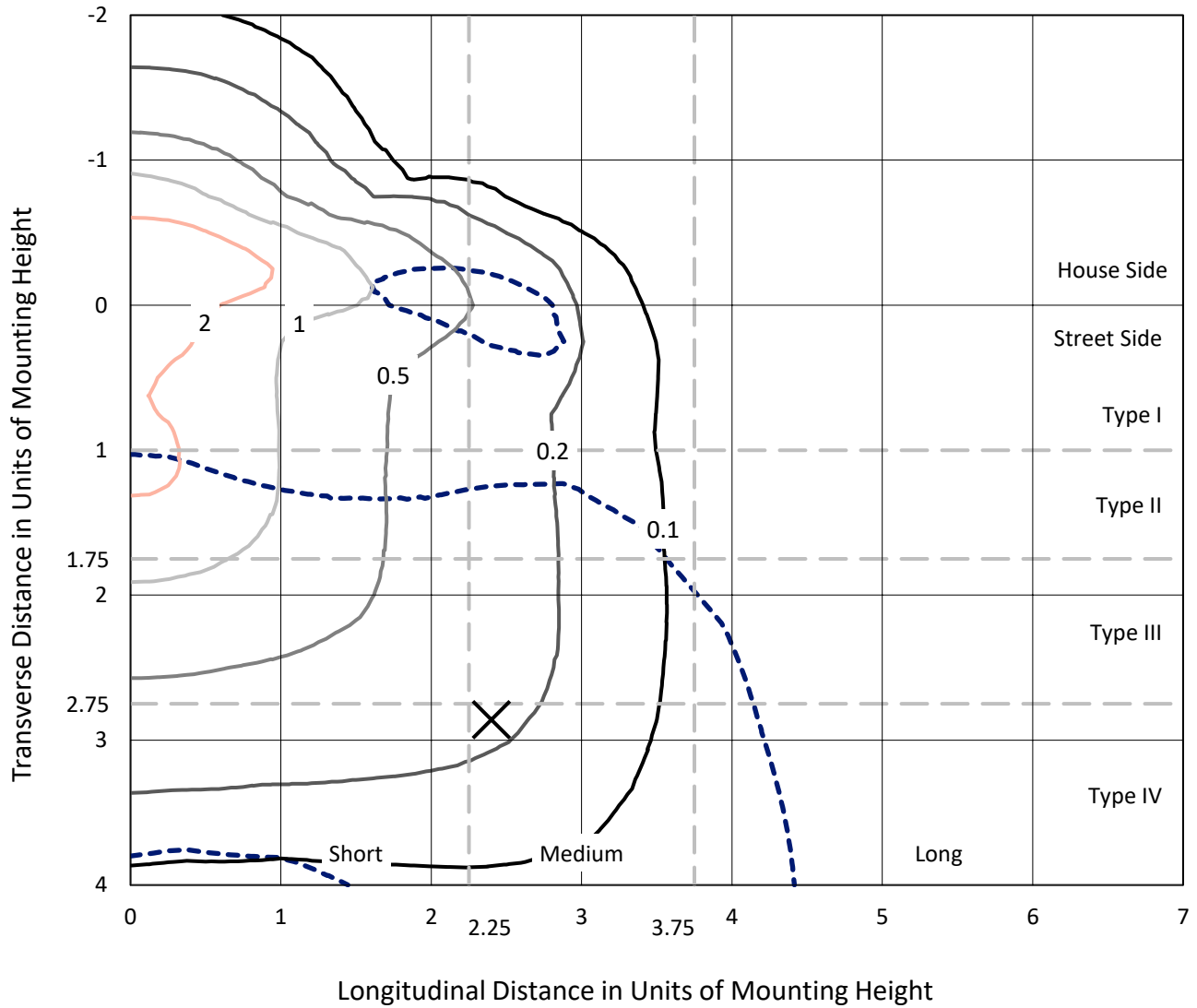
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

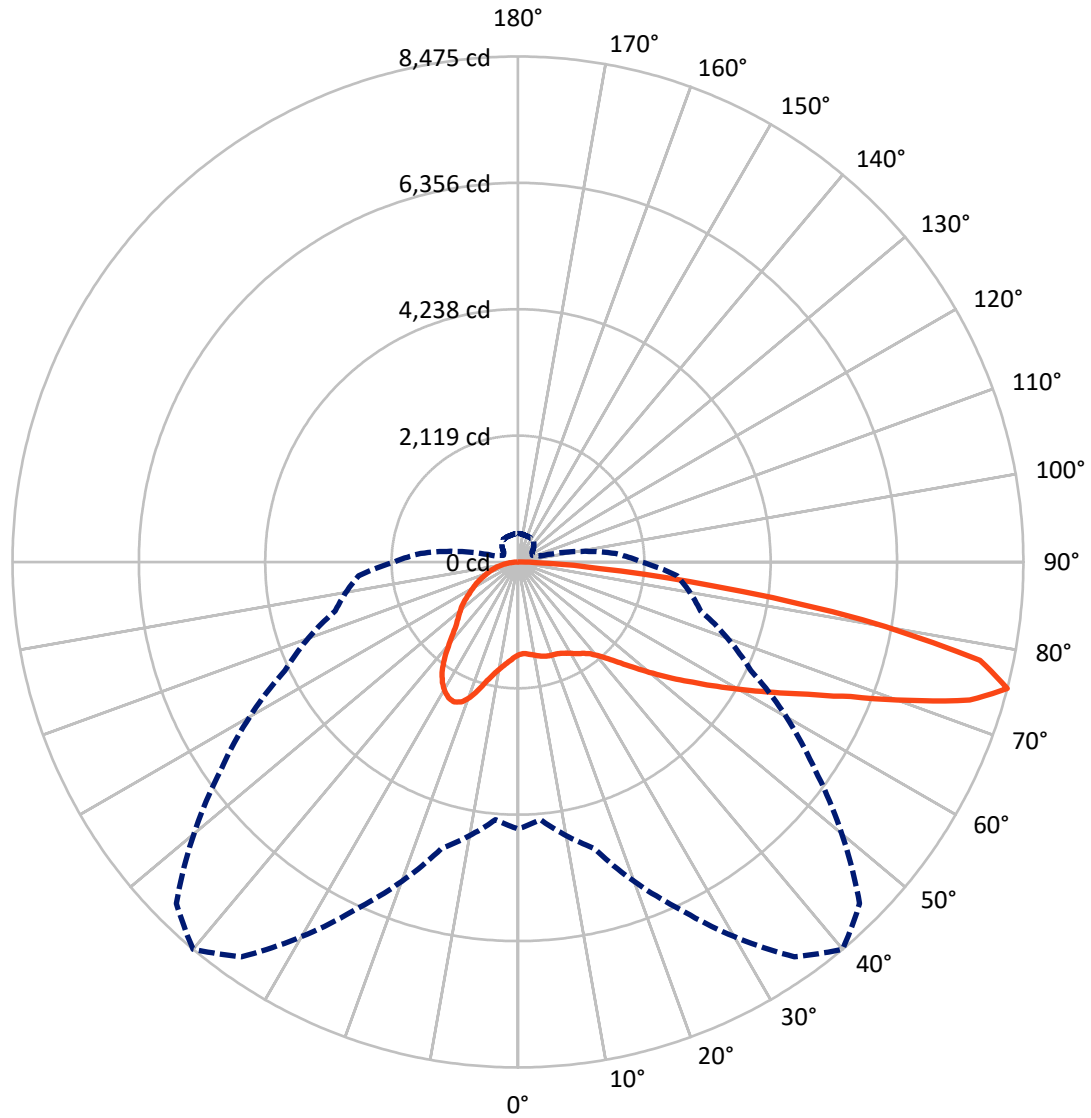
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4219.0	0.0	4219.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9398.0	0.0	9398.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	13617.0	0.0	13617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.1
10°-20°	521.9	3.8
20°-30°	952.9	7.0
30°-40°	1351.4	9.9
40°-50°	1824.8	13.4
50°-60°	2454.9	18.0
60°-70°	3115.8	22.9
70°-80°	2827.8	20.8
80°-90°	412.2	3.0
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°	13617.0	100.0
0°-180°	13617.0	100.0

Coefficient of Utilization



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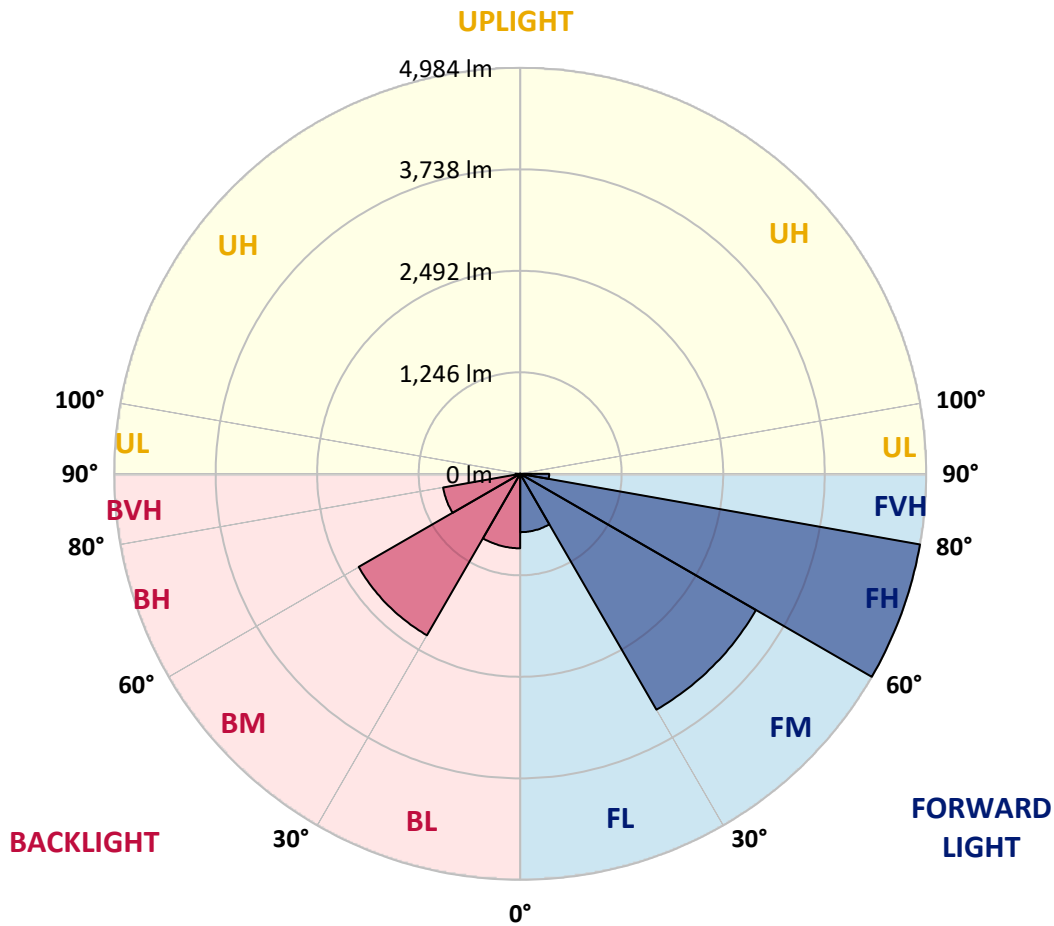
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.3	5.3			
FM (30°-60°)	3342.7	24.5			
FH (60°-80°)	4983.6	36.6			G2/5000
FVH (80°-90°)	355.4	2.6			G3/500
BL (0°-30°)	913.9	6.7	B2/1000		
BM (30°-60°)	2288.4	16.8	B2/2500		
BH (60°-80°)	959.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	56.7	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1533.3	1542.0	1539.8	1536.9	1536.9	1537.6	1536.9	1542.0	1547.0	1552.1
5°	1549.2	1557.8	1553.5	1549.9	1547.0	1546.3	1544.1	1543.4	1546.3	1552.8
7.5°	1580.2	1588.9	1582.4	1575.9	1570.1	1567.2	1564.3	1560.0	1557.8	1561.5
10°	1614.9	1623.6	1615.6	1604.1	1594.7	1591.1	1588.2	1583.8	1581.0	1583.1
12.5°	1649.6	1658.2	1647.4	1631.5	1619.2	1617.1	1613.5	1612.0	1611.3	1610.6
15°	1682.1	1689.3	1675.6	1656.8	1643.8	1640.2	1636.6	1638.7	1642.3	1646.7
17.5°	1707.3	1714.6	1694.3	1669.8	1657.5	1656.1	1653.9	1661.1	1671.2	1682.1
20°	1730.5	1737.7	1711.7	1678.5	1664.0	1664.0	1664.7	1679.9	1694.3	1710.2
22.5°	1763.0	1768.7	1737.0	1691.5	1670.5	1672.0	1677.7	1692.9	1711.0	1732.6
25°	1811.3	1815.7	1776.7	1716.0	1692.2	1696.5	1701.6	1708.8	1726.1	1751.4
27.5°	1889.3	1893.0	1841.7	1759.3	1723.2	1730.5	1737.7	1732.6	1740.6	1762.2
30°	1999.1	2001.3	1936.3	1827.2	1776.0	1779.6	1781.0	1760.1	1744.9	1762.2
32.5°	2129.1	2128.4	2051.1	1909.6	1835.9	1832.3	1820.0	1778.8	1743.5	1758.6
35°	2330.6	2322.7	2223.0	2025.1	1903.8	1881.4	1852.5	1799.8	1750.7	1755.0
37.5°	2664.3	2639.7	2501.8	2214.3	2004.9	1947.8	1905.2	1833.7	1766.6	1753.6
40°	3040.6	3009.5	2857.9	2473.6	2156.6	2064.8	1996.2	1882.1	1792.6	1760.1
42.5°	3486.9	3442.9	3279.6	2779.1	2348.7	2215.8	2112.5	1943.5	1830.8	1781.0
45°	4035.1	3976.6	3745.5	3123.6	2590.6	2413.7	2275.7	2036.7	1889.3	1821.5
47.5°	4589.0	4603.5	4274.9	3518.0	2881.0	2657.8	2480.1	2176.8	1974.6	1886.5
50°	5177.6	5187.8	4801.4	3954.9	3210.3	2933.7	2709.8	2333.5	2093.0	1978.9
52.5°	5637.0	5638.4	5279.5	4412.1	3553.4	3237.0	2957.5	2512.6	2230.2	2101.7
55°	5924.4	5920.8	5614.6	4844.7	3947.7	3555.5	3232.0	2716.3	2397.8	2246.1
57.5°	6133.2	6122.3	5845.7	5216.6	4368.0	3931.8	3542.5	2947.4	2595.7	2418.0
60°	6212.6	6206.1	6002.4	5538.0	4810.0	4347.8	3900.7	3206.0	2820.3	2621.0
62.5°	6242.9	6255.2	6156.3	5849.3	5283.1	4808.6	4294.4	3515.1	3073.1	2850.6
65°	6349.8	6372.2	6352.0	6256.7	5817.5	5348.1	4816.5	3882.7	3349.0	3096.9
67.5°	6561.4	6583.8	6592.5	6744.2	6470.4	6020.5	5468.0	4340.6	3671.8	3352.6
70°	6556.4	6549.9	6703.0	7132.0	7288.0	6951.4	6346.2	4903.9	4056.8	3564.9
72.5°	5967.8	5915.8	6277.6	7127.7	7968.3	7923.6	7418.7	5630.5	4389.0	3590.9
75°	4477.1	4338.4	4977.6	6423.5	8081.7	8475.3	8100.5	6081.2	4310.3	3172.7
77.5°	1914.6	1775.2	2528.5	4755.1	7233.1	7922.8	7475.1	5305.5	3440.7	2098.1
80°	501.2	500.5	764.1	2155.8	4919.1	5850.8	5132.9	3426.2	1965.9	749.7
82.5°	207.3	202.2	280.9	838.5	2403.6	3283.2	2679.5	1528.2	709.9	202.9
85°	77.3	76.6	136.5	289.6	847.9	1354.2	980.1	390.7	176.9	98.9
87.5°	21.7	20.9	29.6	100.4	206.6	313.4	167.6	64.3	49.8	39.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1557.1	0°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
1560.0	2.5°	1562.2	1565.8	1572.3	1577.3	1583.8	1591.1	1601.2	1607.7	1614.2	1618.5
1563.6	5°	1568.7	1576.6	1593.2	1609.8	1629.3	1647.4	1668.3	1683.5	1695.8	1699.4
1576.6	7.5°	1583.1	1596.1	1624.3	1652.5	1683.5	1713.1	1743.5	1769.5	1790.4	1798.3
1599.7	10°	1608.4	1625.7	1665.5	1705.2	1746.3	1791.8	1830.8	1868.4	1898.0	1910.3
1627.2	12.5°	1640.2	1661.8	1713.8	1768.7	1825.8	1888.6	1939.2	1985.4	2022.2	2038.8
1665.5	15°	1681.3	1709.5	1776.0	1849.6	1933.4	2020.8	2085.1	2136.3	2177.5	2197.7
1705.2	17.5°	1726.1	1763.7	1847.5	1958.7	2078.6	2193.4	2268.5	2306.1	2348.7	2368.2
1742.0	20°	1769.5	1815.7	1935.6	2097.3	2257.0	2379.0	2439.7	2449.8	2452.7	2454.9
1776.7	22.5°	1814.2	1876.3	2046.1	2272.1	2443.3	2527.8	2536.5	2493.1	2432.5	2404.3
1810.6	25°	1863.3	1945.7	2190.5	2465.0	2603.6	2613.7	2547.3	2441.9	2327.0	2274.3
1838.1	27.5°	1911.0	2025.8	2363.9	2649.1	2719.2	2630.4	2487.4	2337.8	2199.2	2143.6
1857.6	30°	1958.7	2117.6	2555.2	2810.2	2771.9	2589.2	2392.7	2225.9	2086.5	2028.0
1874.9	32.5°	2007.1	2224.5	2775.5	2926.5	2762.5	2501.8	2275.0	2100.2	1977.5	1916.1
1890.1	35°	2062.0	2355.9	2984.2	2990.0	2699.7	2373.2	2119.7	1950.0	1843.1	1794.0
1908.1	37.5°	2133.5	2522.7	3168.4	3005.9	2589.9	2184.7	1926.9	1772.3	1684.2	1661.8
1934.8	40°	2222.3	2723.5	3309.2	2980.6	2427.4	1955.8	1716.0	1592.5	1542.7	1547.7
1971.0	42.5°	2337.8	2948.1	3408.2	2915.6	2201.3	1719.6	1531.1	1476.2	1500.1	1520.3
2025.1	45°	2488.1	3181.4	3469.6	2805.1	1945.7	1519.6	1422.1	1435.1	1453.1	1455.3
2112.5	47.5°	2680.2	3417.6	3510.0	2638.3	1685.0	1378.7	1352.7	1355.6	1352.0	1336.8
2243.2	50°	2920.0	3647.2	3546.1	2417.3	1463.2	1290.6	1256.0	1245.8	1196.0	1146.9
2417.3	52.5°	3193.0	3858.1	3561.3	2142.8	1290.6	1217.0	1160.6	1097.1	1003.9	988.7
2636.1	55°	3496.3	4053.1	3522.3	1805.6	1145.5	1122.3	1037.1	960.6	950.5	937.5
2924.3	57.5°	3858.9	4263.3	3442.9	1429.3	996.7	1011.8	928.8	937.5	919.4	899.2
3294.8	60°	4255.4	4480.7	3303.5	1086.2	842.8	873.9	900.6	899.9	894.8	878.2
3685.5	62.5°	4612.1	4623.7	3029.0	832.0	707.8	767.0	840.0	839.2	834.9	825.5
4093.6	65°	4824.5	4602.0	2571.1	655.1	596.6	678.9	757.6	763.4	764.1	763.4
4400.5	67.5°	4786.9	4348.5	1942.8	521.4	504.8	589.3	676.0	683.9	689.7	691.2
4439.5	70°	4362.3	3791.7	1266.8	416.0	423.2	510.6	598.7	606.7	611.7	617.5
3852.4	72.5°	3400.2	2787.8	725.1	336.6	351.7	442.7	522.2	531.6	534.4	545.3
2680.9	75°	2072.1	1639.5	391.4	265.1	288.9	378.4	446.3	457.2	462.2	475.2
1316.6	77.5°	985.1	709.9	223.2	206.6	232.6	309.1	377.0	389.3	375.6	382.8
363.3	80°	332.9	263.6	140.8	157.4	177.7	241.2	301.9	314.2	285.3	283.8
120.6	82.5°	116.3	106.9	89.6	104.7	114.8	172.6	228.2	244.1	212.3	211.6
54.2	85°	45.5	43.3	49.8	57.1	68.6	106.2	150.2	158.2	130.7	105.4
15.9	87.5°	9.4	10.1	12.3	13.0	20.9	36.8	54.2	66.4	52.7	44.8
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>
1557.1
1615.6
1700.8
1799.1
1911.0
2038.8
2196.3
2367.5
2460.6
2412.2
2282.2
2150.1
2034.5
1924.0
1804.8
1677.7
1565.1
1539.1
1469.7
1348.4
1153.4
993.8
939.6
895.6
872.5
821.9
763.4
692.6
620.4
549.6
476.7
377.0
280.9
201.5
104.0
41.2
0.0

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