

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: P947685

Luminaire Tested: **GALN-SB2D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14129 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

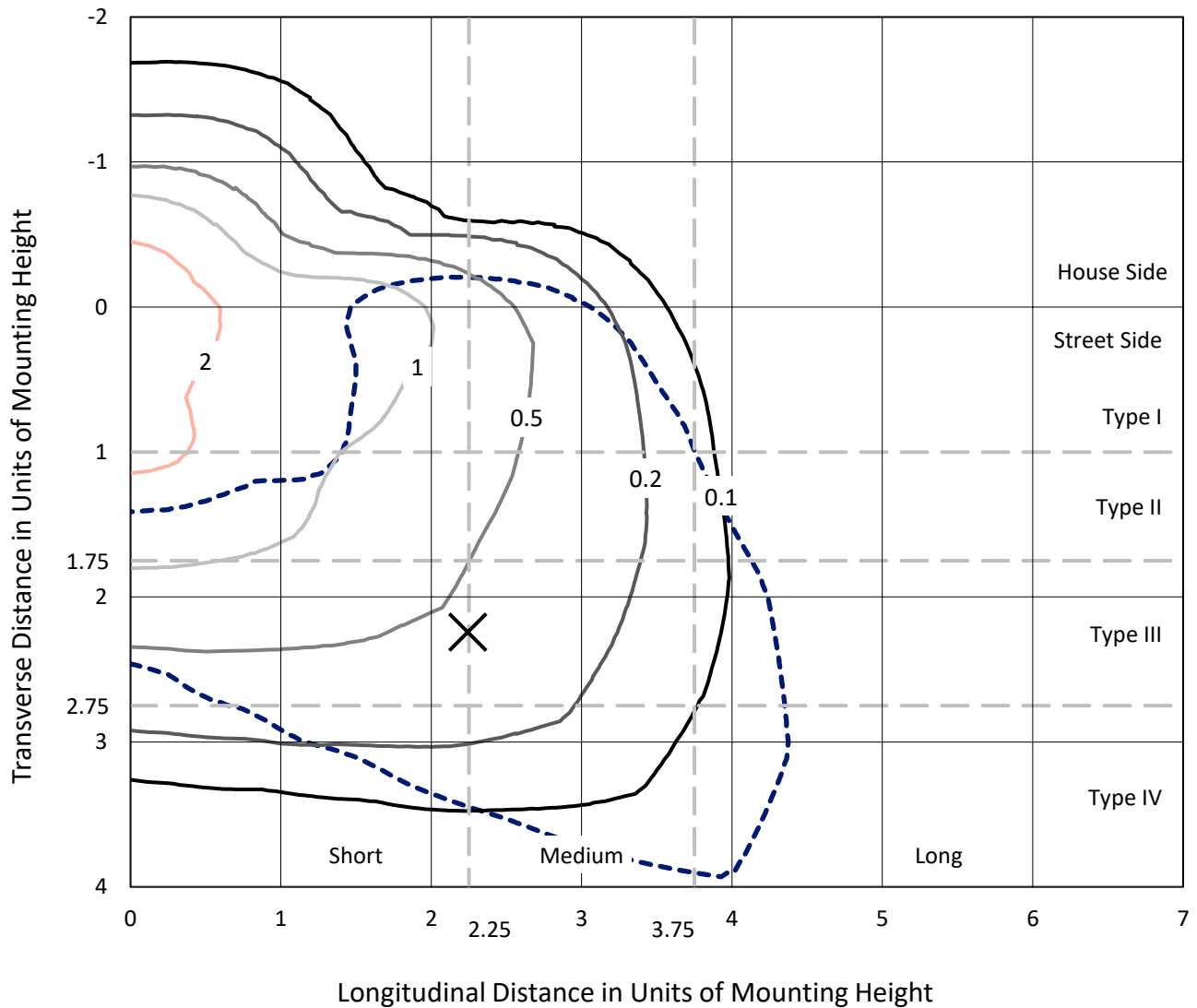
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

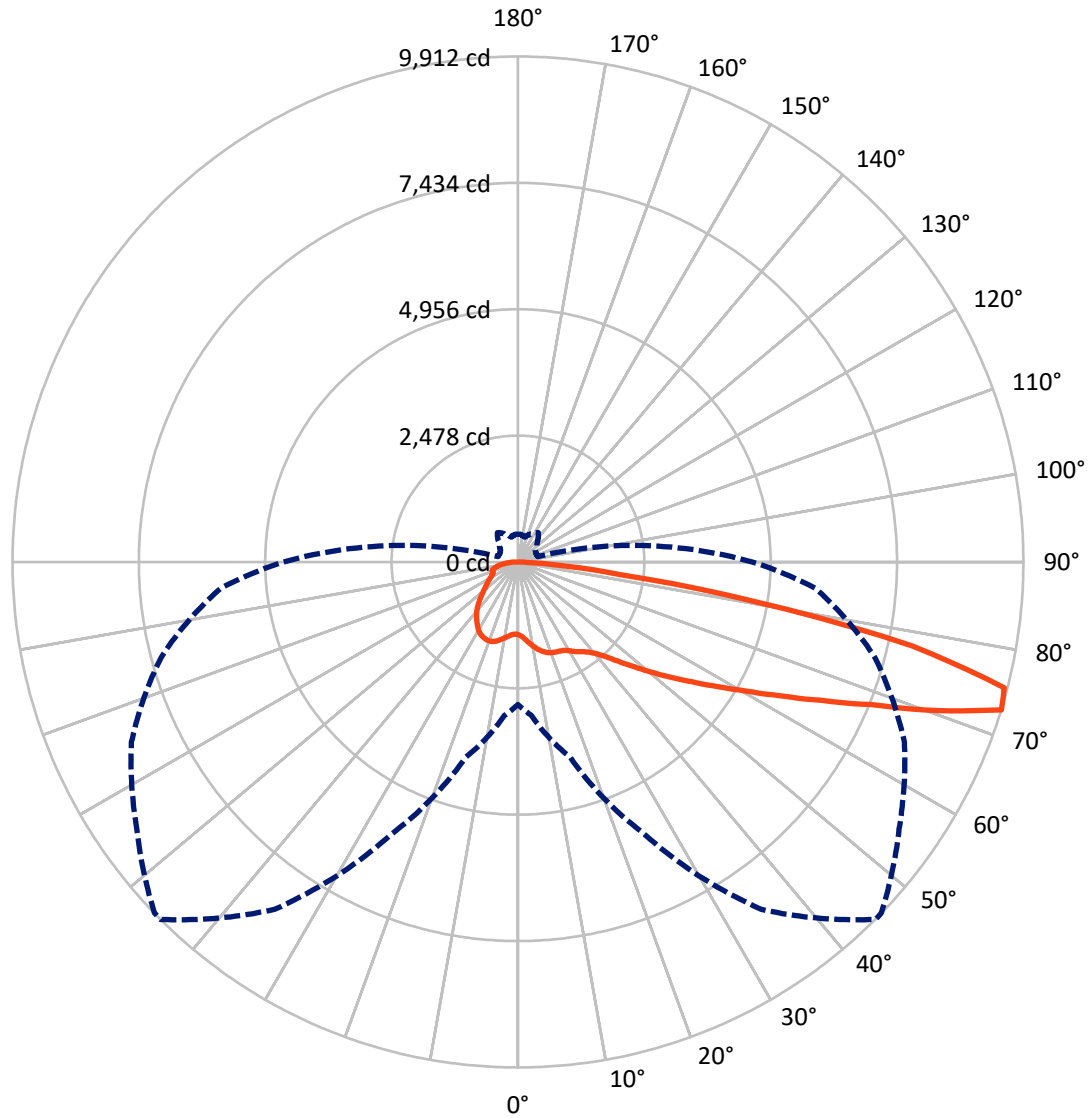
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3194.1	0.0	3194.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10934.9	0.0	10934.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	14129.0	0.0	14129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.0
10°-20°	483.7	3.4
20°-30°	841.4	6.0
30°-40°	1206.2	8.5
40°-50°	1698.4	12.0
50°-60°	2601.4	18.4
60°-70°	3768.6	26.7
70°-80°	3009.4	21.3
80°-90°	374.8	2.7
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°	14129.0	100.0
0°-180°	14129.0	100.0

Coefficient of Utilization



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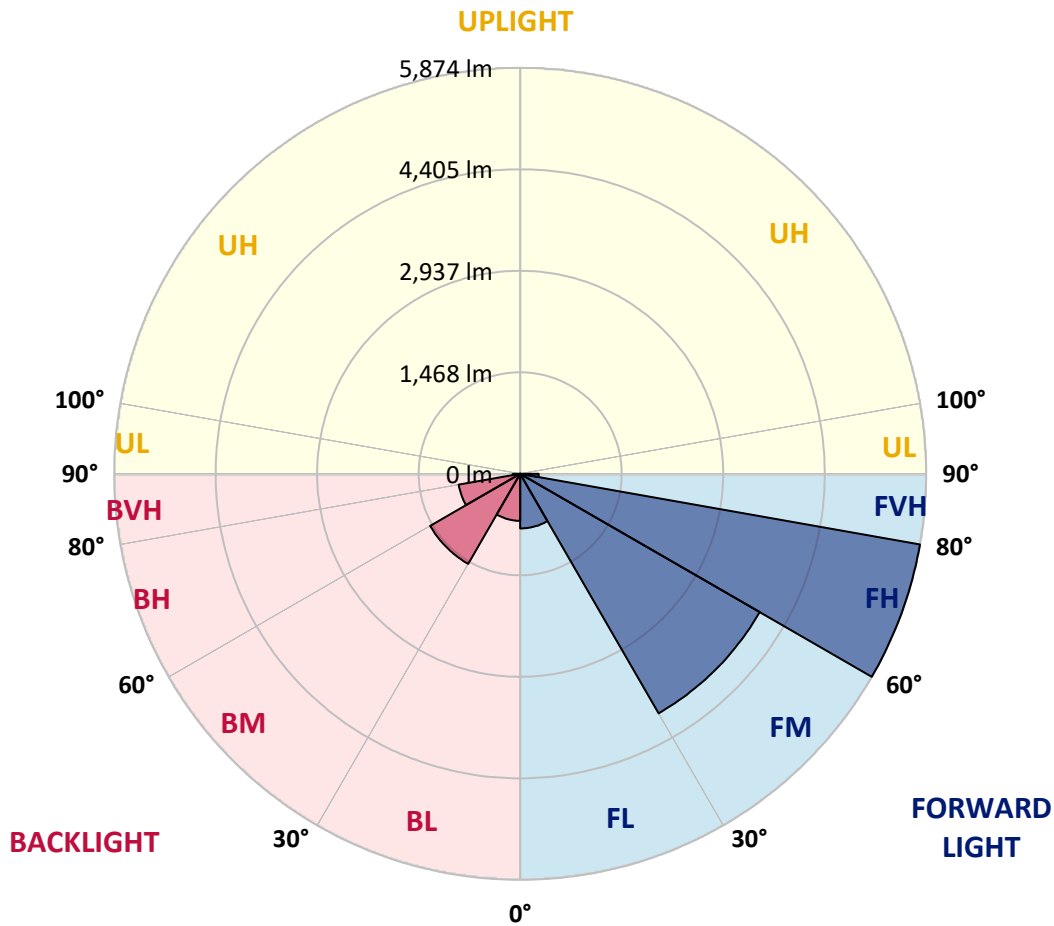
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.1	5.6			
FM (30°-60°)	4002.1	28.3			
FH (60°-80°)	5873.8	41.6			G3/7500
FVH (80°-90°)	268.9	1.9			G3/500
BL (0°-30°)	680.0	4.8	B2/1000		
BM (30°-60°)	1504.0	10.6	B2/2500		
BH (60°-80°)	904.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	105.9	0.7			G2/225
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°	45°	46°	55°	65°	75°
0°	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1481.2	1490.8	1481.9	1473.7	1470.0	1460.3	1459.6	1453.6	1449.9	1439.5
5°	1584.6	1597.3	1582.4	1566.0	1551.1	1527.3	1524.3	1507.2	1487.9	1465.5
7.5°	1701.5	1712.6	1695.5	1671.0	1644.9	1605.5	1604.7	1573.5	1542.9	1505.0
10°	1803.4	1818.3	1795.3	1761.8	1729.0	1684.4	1679.1	1643.4	1604.7	1555.6
12.5°	1893.5	1903.9	1881.6	1840.7	1802.7	1758.0	1751.3	1711.9	1668.7	1612.9
15°	1965.0	1978.4	1948.6	1904.7	1864.5	1820.6	1814.6	1778.9	1735.7	1676.9
17.5°	2011.9	2023.0	1992.5	1943.4	1904.7	1868.2	1863.7	1834.0	1796.0	1736.5
20°	2029.7	2041.6	2009.6	1959.8	1924.0	1895.7	1893.5	1871.9	1845.9	1791.5
22.5°	2047.6	2058.7	2017.1	1965.0	1933.7	1915.8	1915.1	1901.0	1890.5	1845.9
25°	2119.8	2122.8	2066.9	1991.8	1947.1	1931.5	1930.7	1930.0	1934.4	1899.5
27.5°	2182.3	2181.6	2133.9	2063.2	1994.0	1961.2	1960.5	1967.9	1982.1	1953.1
30°	2273.8	2265.7	2209.1	2135.4	2072.1	2021.5	2017.1	2010.4	2021.5	1998.5
32.5°	2468.1	2442.1	2350.5	2219.5	2136.9	2098.2	2092.2	2050.6	2055.0	2040.9
35°	2746.5	2712.2	2590.2	2378.8	2217.3	2162.2	2159.2	2106.4	2097.4	2084.8
37.5°	3077.7	3035.3	2893.1	2609.5	2355.7	2236.6	2232.2	2184.5	2148.1	2134.7
40°	3410.4	3356.8	3239.2	2890.9	2559.7	2360.9	2346.8	2274.6	2232.9	2210.6
42.5°	3733.4	3688.8	3588.3	3206.5	2811.2	2542.5	2511.3	2387.7	2356.5	2335.6
45°	4019.2	3979.0	3905.4	3543.6	3106.0	2789.6	2759.1	2557.4	2547.8	2547.8
47.5°	4251.5	4242.5	4164.4	3887.5	3453.6	3071.0	3018.2	2793.4	2819.4	2859.6
50°	4509.0	4484.4	4401.1	4226.2	3862.2	3393.3	3350.1	3082.9	3180.4	3290.6
52.5°	4745.7	4759.1	4666.0	4579.0	4323.7	3752.8	3676.9	3424.5	3635.2	3817.5
55°	4989.1	4989.8	4963.8	4951.9	4807.5	4150.2	4066.9	3835.4	4170.3	4396.6
57.5°	5217.6	5219.1	5257.8	5362.7	5368.7	4608.7	4514.2	4340.0	4765.0	4995.8
60°	5421.5	5431.9	5537.6	5783.2	5862.1	5134.2	5044.9	4936.2	5379.8	5612.0
62.5°	5490.0	5527.9	5763.1	6112.2	6349.7	5778.8	5690.9	5626.2	6025.9	6241.7
65°	5373.9	5461.0	5915.7	6383.9	6851.3	6544.7	6457.6	6386.9	6697.2	6900.4
67.5°	5088.8	5201.2	5906.8	6669.0	7460.2	7466.1	7385.0	7219.0	7417.0	7495.1
70°	4337.8	4506.0	5386.5	6775.4	8159.1	8726.2	8648.1	8220.8	8135.2	7757.1
72.5°	2794.9	3021.1	3966.4	5899.3	8314.6	9911.9	9907.4	9125.2	8362.2	7248.0
75°	1019.7	1158.1	1842.9	3702.9	6979.3	9851.6	9880.6	8970.3	7633.6	5598.7
77.5°	371.4	406.4	601.4	1423.1	4292.4	7904.5	7964.8	7171.4	5433.4	2809.7
80°	195.0	214.4	308.1	552.3	1839.2	4694.3	4788.8	4261.9	2553.7	846.3
82.5°	107.9	116.9	172.7	300.0	828.4	2007.4	2064.0	1683.6	898.4	358.8
85°	58.1	61.8	81.1	163.7	404.9	695.9	711.6	503.1	358.0	210.6
87.5°	17.1	20.8	26.8	52.1	158.5	156.3	160.0	99.7	141.4	106.4
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°
1425.3	0°	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3	1425.3
1436.5	2.5°	1432.0	1429.8	1421.6	1417.9	1413.4	1412.7	1416.4	1417.2	1417.9	1418.6
1452.9	5°	1445.4	1438.0	1430.6	1426.1	1427.6	1428.3	1435.8	1441.0	1444.7	1447.7
1483.4	7.5°	1471.5	1465.5	1452.9	1452.1	1454.4	1461.1	1470.7	1482.7	1489.4	1494.6
1522.8	10°	1510.2	1499.0	1484.1	1486.4	1490.8	1500.5	1520.6	1530.3	1541.5	1551.1
1571.2	12.5°	1549.6	1540.0	1522.8	1524.3	1531.8	1548.9	1568.2	1580.2	1587.6	1595.0
1623.3	15°	1601.0	1583.9	1565.3	1565.3	1578.7	1597.3	1606.2	1615.9	1620.3	1628.5
1679.1	17.5°	1653.8	1631.5	1607.0	1605.5	1621.8	1630.8	1636.0	1637.5	1639.0	1647.9
1733.5	20°	1706.7	1682.1	1647.1	1644.2	1647.9	1646.4	1645.7	1644.2	1646.4	1657.6
1789.3	22.5°	1758.8	1730.5	1682.1	1668.7	1658.3	1644.2	1643.4	1642.7	1644.2	1655.3
1849.6	25°	1819.8	1785.6	1720.8	1680.6	1645.7	1626.3	1628.5	1629.3	1630.8	1639.7
1912.1	27.5°	1886.1	1848.1	1756.6	1676.9	1613.6	1600.3	1596.5	1598.8	1604.0	1618.1
1974.6	30°	1952.3	1907.6	1789.3	1662.0	1573.5	1554.8	1542.9	1548.2	1564.5	1578.7
2029.0	32.5°	2012.6	1967.9	1815.4	1629.3	1522.1	1493.1	1477.4	1484.1	1500.5	1505.7
2089.3	35°	2083.3	2032.7	1826.5	1577.2	1466.3	1421.6	1400.8	1391.1	1399.3	1394.1
2160.0	37.5°	2162.2	2109.4	1825.0	1508.7	1400.8	1349.4	1320.4	1283.9	1266.8	1248.9
2264.2	40°	2279.1	2203.1	1807.2	1426.1	1319.7	1272.8	1220.7	1158.9	1120.2	1085.2
2432.4	42.5°	2438.3	2333.4	1774.4	1335.3	1228.1	1184.2	1113.5	1041.3	980.2	922.2
2687.7	45°	2675.8	2503.8	1733.5	1238.5	1129.1	1085.9	1009.3	928.1	858.9	784.5
3050.2	47.5°	3018.2	2733.1	1694.8	1128.4	1024.9	985.5	916.2	841.1	759.2	687.0
3574.1	50°	3488.6	3062.1	1659.1	1021.2	922.2	892.4	837.3	760.7	678.1	620.0
4188.2	52.5°	4087.0	3509.4	1644.2	917.7	826.2	815.0	771.1	699.6	621.5	572.4
4904.2	55°	4774.0	4044.5	1644.2	818.7	742.1	745.8	715.3	649.0	581.3	537.4
5642.6	57.5°	5475.1	4586.4	1614.4	727.2	670.6	686.2	666.9	608.8	547.8	502.4
6418.9	60°	6121.2	5040.4	1493.8	643.8	607.4	631.9	619.3	569.4	495.0	457.0
7067.9	62.5°	6617.6	5296.5	1261.6	577.6	555.3	583.5	576.8	517.3	485.3	469.7
7600.8	65°	6866.2	5254.8	964.6	518.8	511.3	555.3	541.1	538.9	513.6	495.7
7774.2	67.5°	6713.6	4896.0	699.6	475.6	486.0	529.2	583.5	592.5	545.6	510.6
7286.0	70°	6044.5	4247.0	521.0	434.7	454.0	529.9	665.4	620.0	535.2	494.2
5843.5	72.5°	4598.3	3167.0	404.2	391.5	412.3	533.7	701.9	607.4	505.4	546.3
3640.4	75°	2629.6	1738.7	324.5	338.7	360.2	498.7	683.3	574.6	482.3	501.7
1442.5	77.5°	1002.6	668.4	267.9	286.6	289.5	435.4	653.5	572.4	459.2	448.1
432.4	80°	347.6	261.3	221.8	227.8	224.0	387.0	626.7	497.9	375.9	336.4
178.6	82.5°	142.2	130.3	175.7	168.2	159.3	300.7	506.1	407.1	307.4	271.7
86.3	85°	61.8	82.6	116.1	102.0	92.3	208.4	405.6	344.6	259.8	224.0
28.3	87.5°	12.7	31.3	49.1	46.1	47.6	139.2	288.0	244.9	183.8	137.7
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>
1425.3
1421.6
1449.2
1496.0
1548.9
1598.0
1631.5
1650.9
1662.0
1662.8
1651.6
1632.3
1594.3
1524.3
1410.5
1260.1
1087.4
917.0
775.6
678.8
616.3
568.6
532.9
495.0
451.0
464.4
489.8
504.6
487.5
541.9
501.7
408.6
325.3
268.7
223.3
107.9
0.0

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