

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: P940152

Luminaire Tested: **GALN-SB3A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940152
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-SB3A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11988 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

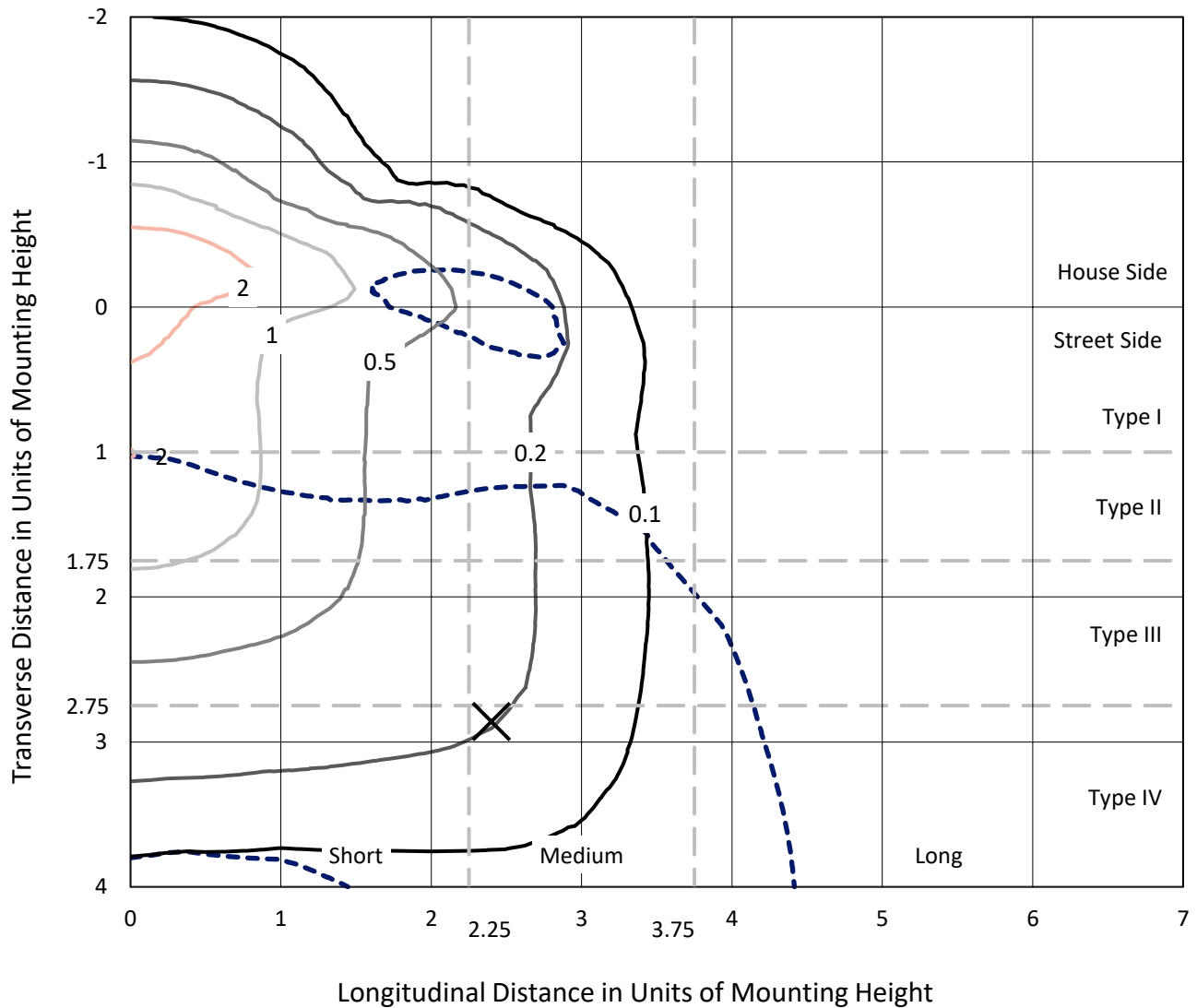
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

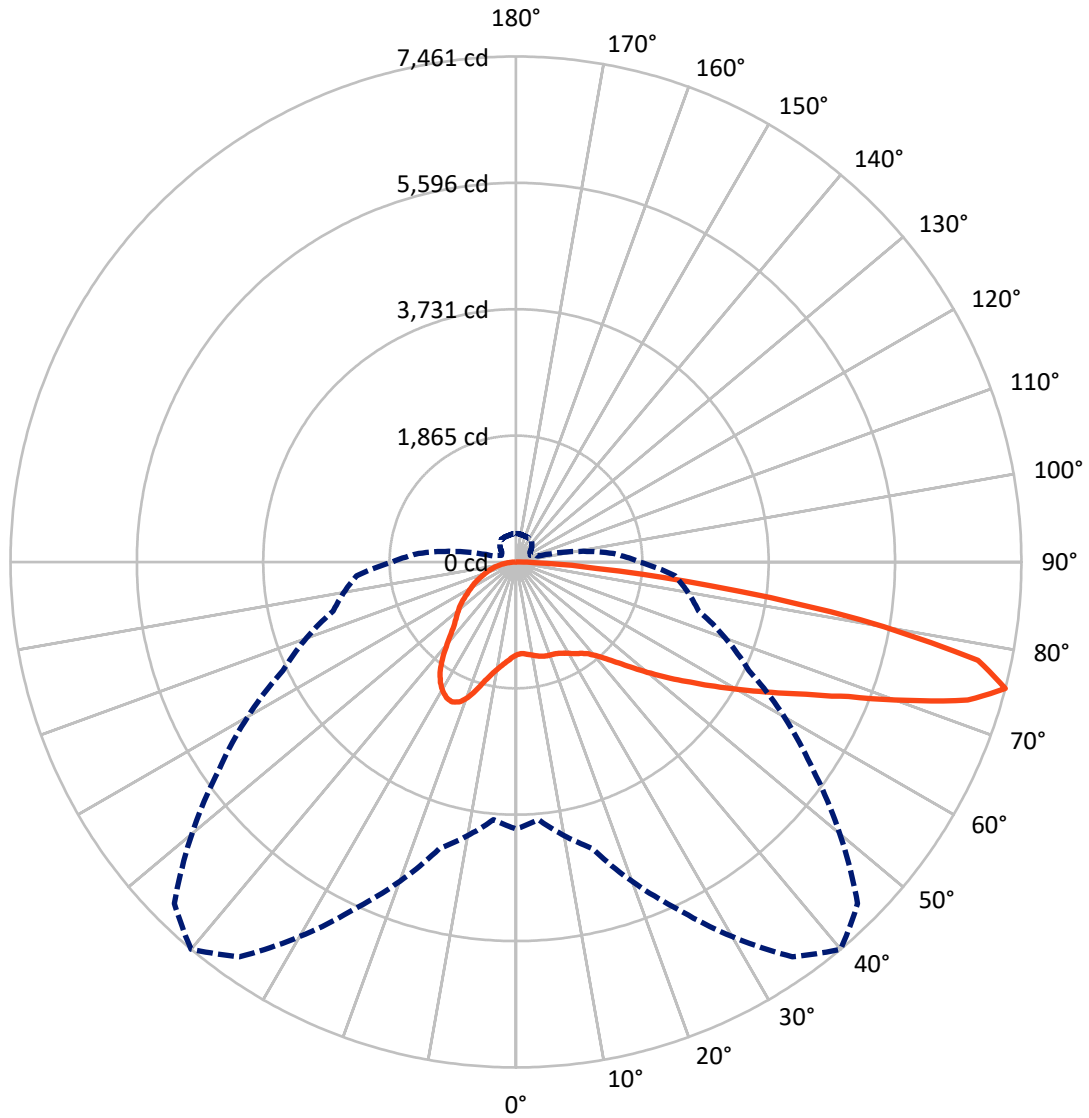
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	3714.3	0.0	3714.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8273.7	0.0	8273.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	11988.0	0.0	11988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.1
10°-20°	459.4	3.8
20°-30°	838.9	7.0
30°-40°	1189.7	9.9
40°-50°	1606.5	13.4
50°-60°	2161.2	18.0
60°-70°	2743.0	22.9
70°-80°	2489.5	20.8
80°-90°	362.9	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°	11988.0	100.0
0°-180°	11988.0	100.0

Coefficient of Utilization



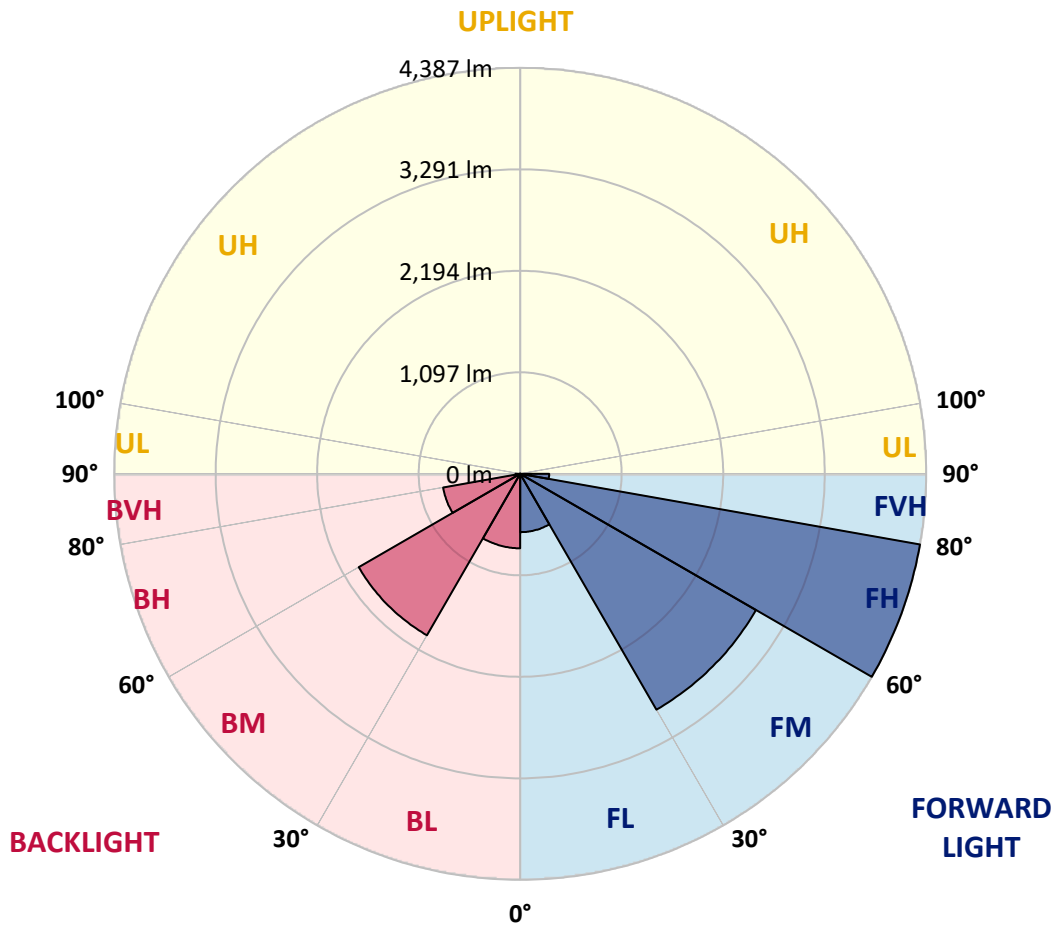
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.6	5.3			
FM (30°-60°)	2942.8	24.5			
FH (60°-80°)	4387.4	36.6			G2/5000
FVH (80°-90°)	312.9	2.6			G3/500
BL (0°-30°)	804.5	6.7	B2/1000		
BM (30°-60°)	2014.7	16.8	B2/2500		
BH (60°-80°)	845.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	50.0	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°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1349.9	1357.5	1355.6	1353.0	1353.0	1353.7	1353.0	1357.5	1361.9	1366.4
5°	1363.8	1371.5	1367.7	1364.5	1361.9	1361.3	1359.4	1358.8	1361.3	1367.0
7.5°	1391.2	1398.8	1393.1	1387.4	1382.3	1379.7	1377.2	1373.4	1371.5	1374.7
10°	1421.7	1429.3	1422.3	1412.2	1403.9	1400.7	1398.2	1394.4	1391.8	1393.7
12.5°	1452.2	1459.9	1450.3	1436.3	1425.5	1423.6	1420.4	1419.2	1418.5	1417.9
15°	1480.8	1487.2	1475.1	1458.6	1447.1	1444.0	1440.8	1442.7	1445.9	1449.7
17.5°	1503.1	1509.5	1491.7	1470.0	1459.2	1458.0	1456.0	1462.4	1471.3	1480.8
20°	1523.4	1529.8	1506.9	1477.7	1464.9	1464.9	1465.6	1478.9	1491.7	1505.6
22.5°	1552.1	1557.1	1529.2	1489.1	1470.7	1471.9	1477.0	1490.4	1506.3	1525.3
25°	1594.7	1598.5	1564.1	1510.7	1489.7	1493.6	1498.0	1504.4	1519.6	1541.9
27.5°	1663.3	1666.5	1621.4	1548.9	1517.1	1523.4	1529.8	1525.3	1532.3	1551.4
30°	1760.0	1761.9	1704.7	1608.6	1563.5	1566.7	1568.0	1549.5	1536.2	1551.4
32.5°	1874.4	1873.8	1805.7	1681.1	1616.3	1613.1	1602.3	1566.0	1534.9	1548.2
35°	2051.8	2044.8	1957.1	1782.9	1676.0	1656.3	1630.9	1584.5	1541.2	1545.1
37.5°	2345.6	2323.9	2202.5	1949.4	1765.1	1714.8	1677.3	1614.4	1555.2	1543.8
40°	2676.8	2649.5	2516.0	2177.7	1898.6	1817.8	1757.4	1657.0	1578.1	1549.5
42.5°	3069.8	3031.0	2887.3	2446.7	2067.7	1950.7	1859.8	1711.0	1611.8	1568.0
45°	3552.4	3500.9	3297.4	2750.0	2280.7	2124.9	2003.5	1793.0	1663.3	1603.6
47.5°	4040.0	4052.8	3763.5	3097.1	2536.3	2339.8	2183.4	1916.4	1738.4	1660.8
50°	4558.2	4567.1	4227.0	3481.8	2826.3	2582.7	2385.6	2054.4	1842.6	1742.2
52.5°	4962.6	4963.9	4647.9	3884.3	3128.3	2849.8	2603.7	2212.0	1963.4	1850.3
55°	5215.7	5212.5	4942.9	4265.1	3475.4	3130.2	2845.3	2391.3	2110.9	1977.4
57.5°	5399.4	5389.9	5146.4	4592.6	3845.5	3461.4	3118.7	2594.8	2285.2	2128.7
60°	5469.4	5463.7	5284.4	4875.5	4234.6	3827.7	3434.1	2822.4	2482.9	2307.4
62.5°	5496.1	5506.9	5419.8	5149.6	4651.1	4233.3	3780.6	3094.6	2705.4	2509.6
65°	5590.2	5609.9	5592.1	5508.2	5121.6	4708.3	4240.3	3418.2	2948.3	2726.4
67.5°	5776.5	5796.2	5803.8	5937.4	5696.4	5300.3	4813.8	3821.3	3232.5	2951.5
70°	5772.0	5766.3	5901.1	6278.8	6416.1	6119.8	5587.0	4317.3	3571.4	3138.4
72.5°	5253.8	5208.1	5526.6	6275.0	7015.1	6975.7	6531.2	4956.9	3863.9	3161.3
75°	3941.5	3819.4	4382.1	5655.0	7114.9	7461.4	7131.4	5353.7	3794.6	2793.2
77.5°	1685.6	1562.9	2226.0	4186.3	6367.8	6975.0	6580.8	4670.8	3029.1	1847.1
80°	441.3	440.6	672.7	1897.9	4330.6	5150.8	4518.8	3016.4	1730.7	660.0
82.5°	182.5	178.0	247.3	738.2	2116.0	2890.5	2358.9	1345.4	625.0	178.7
85°	68.0	67.4	120.2	255.0	746.5	1192.2	862.8	344.0	155.8	87.1
87.5°	19.1	18.4	26.1	88.4	181.8	275.9	147.5	56.6	43.9	34.3
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°
1370.8	0°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
1373.4	2.5°	1375.3	1378.5	1384.2	1388.6	1394.4	1400.7	1409.6	1415.4	1421.1	1424.9
1376.6	5°	1381.0	1388.0	1402.6	1417.3	1434.4	1450.3	1468.8	1482.1	1492.9	1496.1
1388.0	7.5°	1393.7	1405.2	1430.0	1454.8	1482.1	1508.2	1534.9	1557.8	1576.2	1583.2
1408.4	10°	1416.0	1431.2	1466.2	1501.2	1537.4	1577.5	1611.8	1644.9	1671.0	1681.8
1432.5	12.5°	1444.0	1463.0	1508.8	1557.1	1607.4	1662.7	1707.2	1747.9	1780.3	1794.9
1466.2	15°	1480.2	1505.0	1563.5	1628.4	1702.1	1779.0	1835.6	1880.8	1917.0	1934.8
1501.2	17.5°	1519.6	1552.7	1626.4	1724.4	1829.9	1931.0	1997.1	2030.2	2067.7	2084.9
1533.6	20°	1557.8	1598.5	1704.0	1846.4	1987.0	2094.4	2147.8	2156.7	2159.3	2161.2
1564.1	22.5°	1597.2	1651.9	1801.3	2000.3	2151.0	2225.4	2233.0	2194.9	2141.5	2116.7
1594.0	25°	1640.4	1712.9	1928.5	2170.1	2292.2	2301.1	2242.6	2149.7	2048.6	2002.2
1618.2	27.5°	1682.4	1783.5	2081.1	2332.2	2393.9	2315.7	2189.8	2058.2	1936.1	1887.1
1635.3	30°	1724.4	1864.2	2249.6	2474.0	2440.3	2279.4	2106.5	1959.6	1836.9	1785.4
1650.6	32.5°	1767.0	1958.3	2443.5	2576.4	2432.0	2202.5	2002.9	1849.0	1740.9	1686.8
1664.0	35°	1815.3	2074.1	2627.2	2632.3	2376.7	2089.3	1866.2	1716.7	1622.6	1579.4
1679.9	37.5°	1878.2	2220.9	2789.4	2646.3	2280.1	1923.4	1696.4	1560.3	1482.7	1463.0
1703.4	40°	1956.4	2397.7	2913.4	2624.1	2137.0	1721.8	1510.7	1402.0	1358.1	1362.6
1735.2	42.5°	2058.2	2595.4	3000.5	2566.8	1938.0	1513.9	1348.0	1299.6	1320.6	1338.4
1782.9	45°	2190.4	2800.8	3054.5	2469.6	1712.9	1337.8	1251.9	1263.4	1279.3	1281.2
1859.8	47.5°	2359.6	3008.7	3090.1	2322.7	1483.4	1213.8	1190.9	1193.4	1190.3	1176.9
1974.9	50°	2570.6	3210.9	3121.9	2128.1	1288.2	1136.2	1105.7	1096.8	1052.9	1009.7
2128.1	52.5°	2811.0	3396.6	3135.3	1886.5	1136.2	1071.4	1021.8	965.8	883.8	870.4
2320.8	55°	3078.0	3568.3	3100.9	1589.6	1008.4	988.1	913.0	845.7	836.7	825.3
2574.5	57.5°	3397.2	3753.3	3031.0	1258.3	877.4	890.8	817.7	825.3	809.4	791.6
2900.6	60°	3746.3	3944.7	2908.3	956.3	742.0	769.4	792.9	792.2	787.8	773.2
3244.6	62.5°	4060.4	4070.6	2666.7	732.5	623.1	675.2	739.5	738.8	735.0	726.8
3603.9	65°	4247.3	4051.5	2263.5	576.7	525.2	597.7	667.0	672.1	672.7	672.1
3874.1	67.5°	4214.3	3828.3	1710.4	459.1	444.4	518.8	595.1	602.1	607.2	608.5
3908.4	70°	3840.4	3338.1	1115.2	366.2	372.6	449.5	527.1	534.1	538.5	543.6
3391.5	72.5°	2993.5	2454.3	638.4	296.3	309.6	389.8	459.7	468.0	470.5	480.0
2360.2	75°	1824.2	1443.3	344.6	233.3	254.3	333.2	392.9	402.5	406.9	418.4
1159.1	77.5°	867.3	625.0	196.5	181.8	204.7	272.1	331.9	342.7	330.6	337.0
319.8	80°	293.1	232.1	124.0	138.6	156.4	212.4	265.8	276.6	251.2	249.9
106.2	82.5°	102.4	94.1	78.8	92.2	101.1	152.0	200.9	214.9	186.9	186.3
47.7	85°	40.1	38.1	43.9	50.2	60.4	93.5	132.3	139.2	115.1	92.8
14.0	87.5°	8.3	8.9	10.8	11.4	18.4	32.4	47.7	58.5	46.4	39.4
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>
1370.8
1422.3
1497.4
1583.8
1682.4
1794.9
1933.6
2084.2
2166.3
2123.7
2009.2
1892.9
1791.1
1693.8
1588.9
1477.0
1377.8
1354.9
1293.9
1187.1
1015.4
874.9
827.2
788.4
768.1
723.6
672.1
609.8
546.2
483.9
419.6
331.9
247.3
177.4
91.6
36.2
0.0

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