

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: P946770

Luminaire Tested: **GALN-SB2B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9570 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

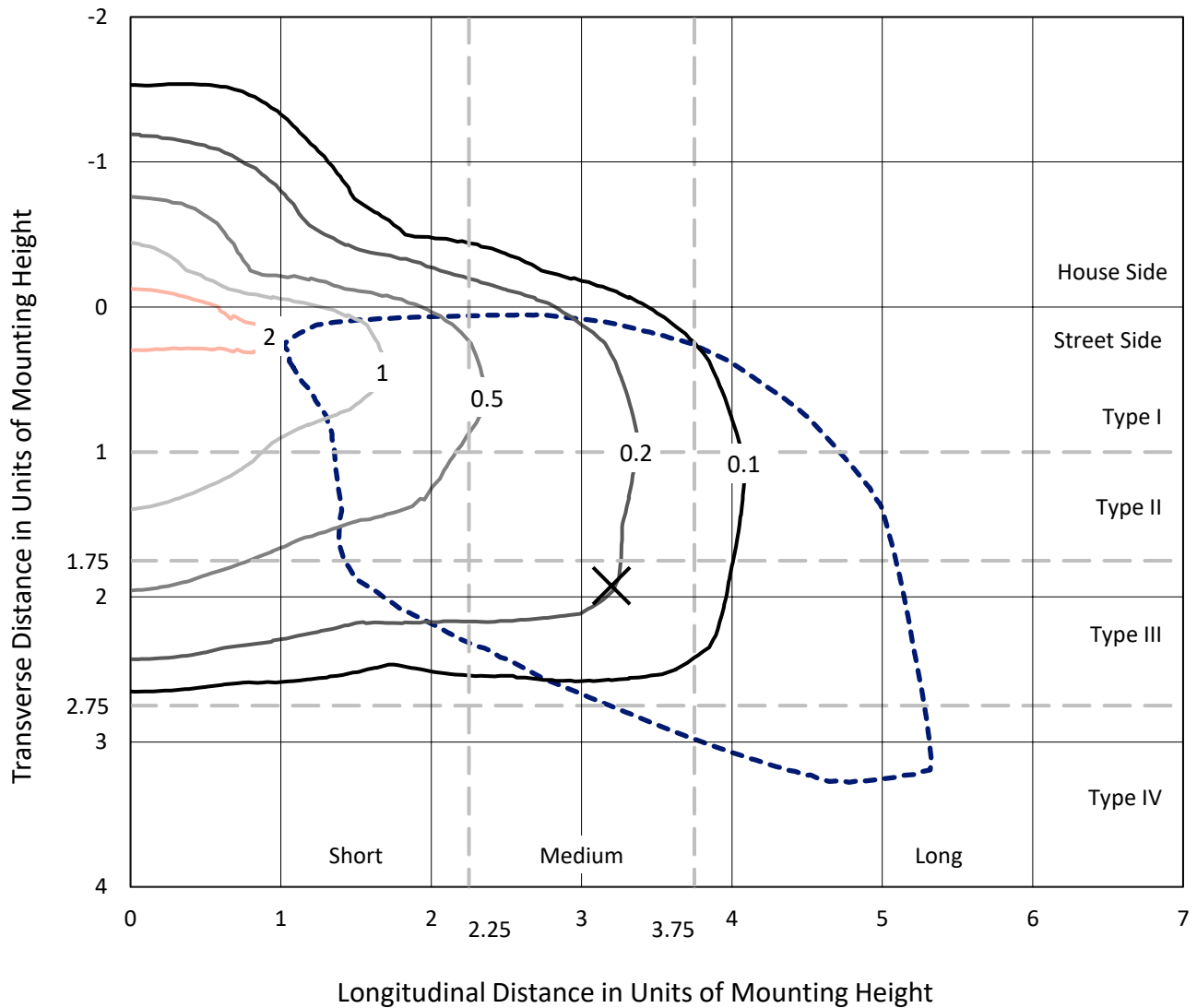
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

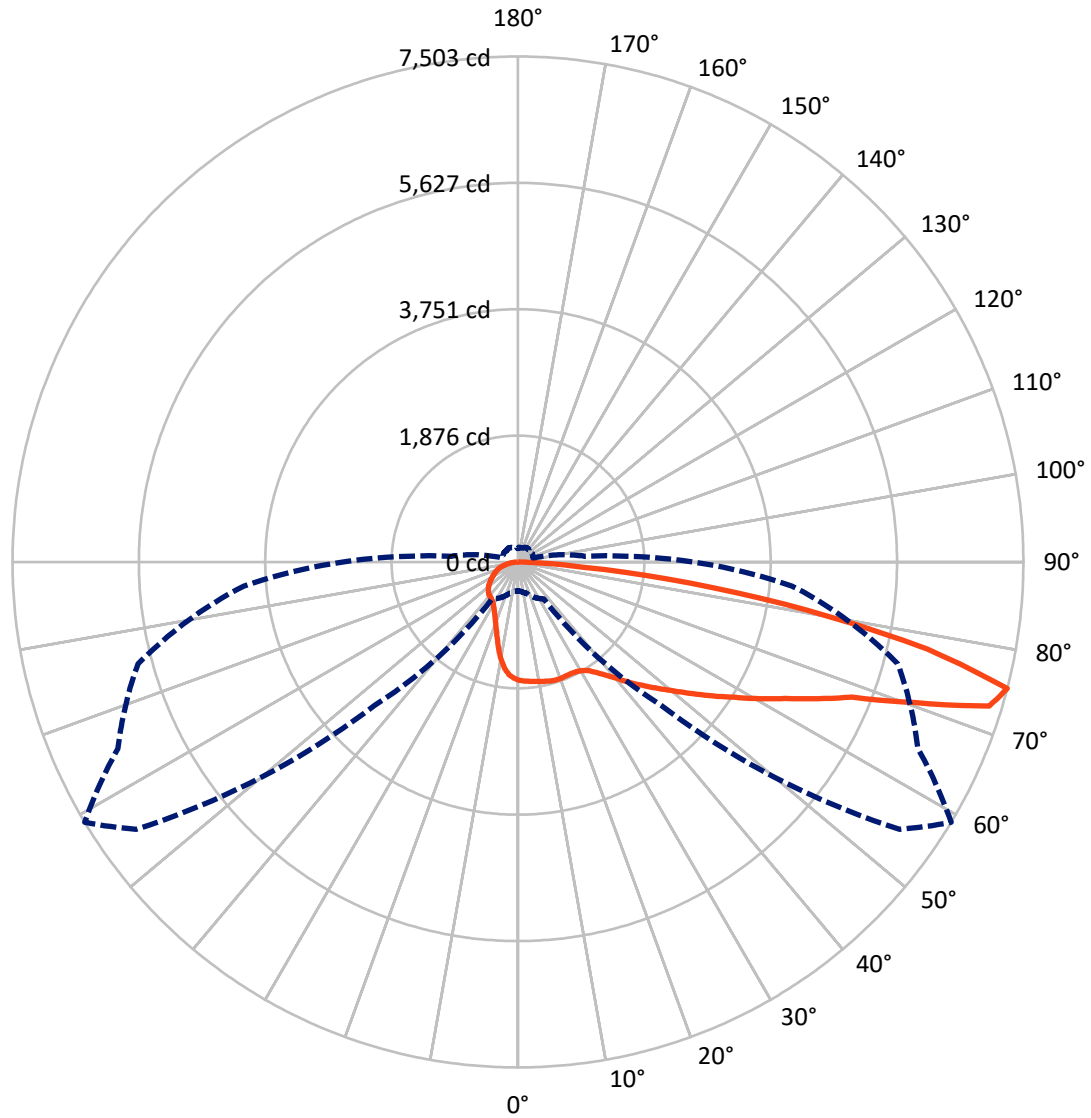
× Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1794.9	0.0	1794.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7775.1	0.0	7775.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	9570.0	0.0	9570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.6
10°-20°	402.6	4.2
20°-30°	611.5	6.4
30°-40°	909.0	9.5
40°-50°	1351.8	14.1
50°-60°	1834.9	19.2
60°-70°	2240.1	23.4
70°-80°	1758.0	18.4
80°-90°	304.5	3.2
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°	9570.0	100.0
0°-180°	9570.0	100.0

Coefficient of Utilization



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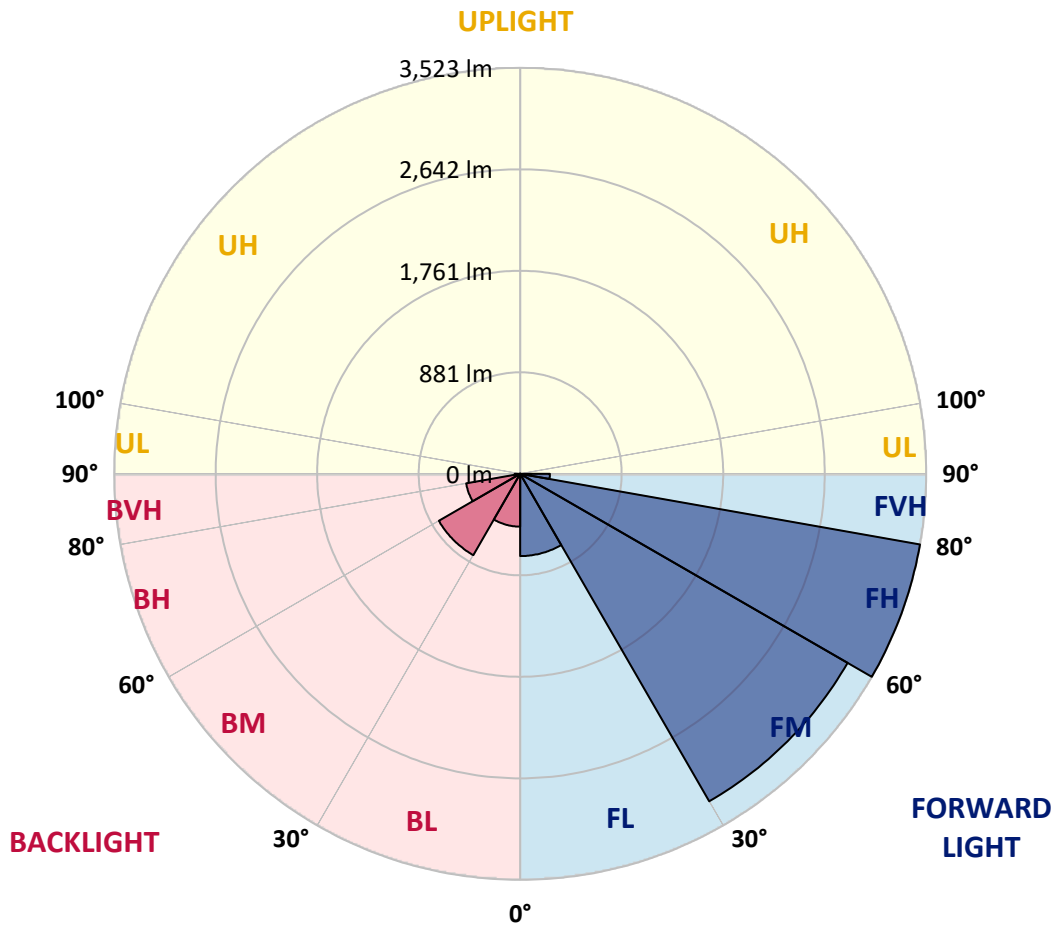
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.5	7.5			
FM (30°-60°)	3281.0	34.3			
FH (60°-80°)	3522.6	36.8			G2/5000
FVH (80°-90°)	257.9	2.7			G3/500
BL (0°-30°)	458.0	4.8	B1/500		
BM (30°-60°)	814.7	8.5	B1/1000		
BH (60°-80°)	475.5	5.0	B1/500		G1/500
BVH (80°-90°)	46.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6
2.5°	1771.5	1765.3	1771.5	1768.9	1767.9	1765.8	1766.3	1769.9	1767.9	1770.5
5°	1759.6	1756.0	1762.2	1760.7	1767.4	1768.4	1775.1	1779.2	1781.8	1782.3
7.5°	1740.1	1736.5	1745.2	1752.4	1766.8	1771.0	1784.9	1791.6	1795.2	1801.3
10°	1668.5	1667.0	1688.6	1715.9	1749.9	1771.0	1792.1	1803.4	1809.1	1825.5
12.5°	1541.9	1543.9	1572.2	1624.8	1692.7	1760.7	1800.3	1816.8	1825.5	1846.1
15°	1420.9	1420.4	1451.3	1507.4	1602.6	1715.4	1804.4	1832.7	1847.7	1878.0
17.5°	1350.9	1348.8	1370.4	1413.2	1501.7	1645.9	1794.1	1841.5	1873.4	1911.5
20°	1338.0	1333.9	1345.2	1366.3	1429.1	1569.7	1767.4	1841.5	1894.0	1943.4
22.5°	1384.9	1378.2	1373.5	1371.0	1398.8	1506.9	1737.0	1835.3	1924.4	1989.2
25°	1479.1	1468.8	1445.1	1421.9	1413.7	1478.6	1710.2	1833.8	1969.7	2051.0
27.5°	1631.5	1618.6	1570.7	1515.1	1465.2	1493.0	1698.4	1843.0	2019.6	2116.4
30°	1820.4	1806.5	1746.3	1660.8	1571.2	1546.5	1713.3	1870.3	2083.5	2203.4
32.5°	1989.8	1974.3	1922.8	1835.8	1714.9	1639.2	1760.7	1922.3	2183.8	2324.4
35°	2140.1	2122.1	2075.7	1995.4	1890.9	1769.4	1846.1	2014.5	2326.5	2521.1
37.5°	2287.3	2266.2	2215.8	2130.8	2057.7	1942.9	1964.0	2132.9	2515.9	2759.9
40°	2452.1	2421.7	2360.4	2276.5	2205.5	2146.3	2119.0	2278.1	2708.4	3026.6
42.5°	2611.7	2582.8	2509.7	2438.2	2349.1	2332.1	2298.7	2448.0	2919.0	3319.5
45°	2783.6	2749.1	2660.6	2570.0	2513.8	2455.7	2472.7	2617.8	3125.4	3618.1
47.5°	2944.7	2906.1	2801.6	2700.7	2669.8	2559.7	2632.3	2804.7	3340.1	3920.8
50°	3031.8	2993.7	2906.7	2815.5	2791.3	2687.9	2805.2	3010.1	3565.1	4222.5
52.5°	3104.3	3063.2	2949.4	2898.9	2891.7	2827.4	3018.4	3244.9	3790.1	4489.2
55°	3181.6	3135.7	2990.6	2945.3	2978.2	2983.9	3271.1	3511.0	4027.9	4749.2
57.5°	3270.6	3212.5	3030.2	2984.4	3062.6	3167.1	3561.5	3787.0	4261.6	4990.1
60°	3354.5	3295.9	3106.4	3046.7	3153.8	3379.8	3894.6	4121.1	4526.3	5204.8
62.5°	3371.0	3322.6	3167.1	3166.6	3277.3	3627.9	4288.9	4458.3	4757.4	5416.9
65°	3085.8	3055.4	2963.3	3162.0	3454.4	3985.2	4728.1	4889.7	5051.4	5602.2
67.5°	2348.6	2352.7	2346.0	2729.6	3311.3	4498.5	5363.9	5351.5	5414.3	5810.2
70°	1073.9	1098.1	1255.6	1884.2	2652.8	4557.7	6415.1	6255.0	5869.9	6079.5
72.5°	580.2	598.7	663.1	912.8	1594.9	4052.1	7200.7	7314.5	6475.9	6260.7
75°	425.8	436.0	480.8	580.2	669.8	3011.7	6919.1	7502.9	6551.5	5838.0
77.5°	318.7	323.3	359.9	459.7	342.9	1587.7	5528.6	6213.8	5608.4	4796.5
80°	231.2	236.3	263.6	344.9	240.4	580.7	3796.3	4361.5	3841.0	3057.5
82.5°	159.6	161.7	173.5	234.8	167.8	225.5	2154.0	2557.6	2144.2	1072.9
85°	96.3	98.8	104.0	136.9	95.2	107.1	929.8	961.7	640.9	256.4
87.5°	39.6	42.2	46.3	57.7	37.6	29.9	153.4	192.5	120.0	75.2
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°
1756.6	0°	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6
1761.7	2.5°	1759.1	1755.5	1745.7	1732.4	1720.0	1704.6	1697.9	1692.2	1687.1	1677.3
1775.6	5°	1769.9	1760.2	1733.9	1699.9	1661.3	1619.1	1577.9	1549.6	1525.4	1507.4
1791.6	7.5°	1786.4	1767.9	1720.0	1650.5	1562.0	1471.3	1389.5	1331.3	1287.6	1271.6
1814.2	10°	1803.4	1781.3	1697.9	1575.3	1422.4	1282.9	1174.3	1114.6	1079.6	1068.2
1841.0	12.5°	1823.5	1791.0	1663.4	1470.8	1266.4	1113.5	1018.8	983.8	965.8	959.6
1873.9	15°	1852.8	1799.3	1611.4	1340.1	1117.7	990.0	928.7	904.5	895.3	894.8
1907.9	17.5°	1875.0	1800.8	1530.5	1200.0	1003.4	915.3	864.9	855.6	861.8	871.1
1941.4	20°	1899.7	1786.9	1424.5	1072.4	923.1	850.0	828.9	835.0	850.0	863.3
1985.6	22.5°	1917.2	1761.7	1296.3	973.0	853.6	812.4	811.4	824.2	832.5	839.2
2037.6	25°	1932.6	1719.0	1160.4	889.6	796.4	789.7	801.1	796.9	791.3	796.9
2089.6	27.5°	1943.9	1651.5	1038.9	816.5	756.3	774.3	767.6	758.3	757.8	760.9
2150.9	30°	1940.3	1561.4	939.0	747.0	727.9	745.5	729.5	727.9	726.4	727.9
2243.1	32.5°	1940.3	1459.0	862.3	699.1	709.9	703.2	701.7	698.1	691.9	691.4
2368.2	35°	1951.2	1356.5	796.4	673.4	695.0	679.0	680.1	671.3	658.4	652.3
2533.9	37.5°	1973.3	1274.2	731.0	661.0	668.7	668.2	664.1	649.2	626.5	607.0
2740.9	40°	2026.8	1250.0	686.2	655.4	656.4	662.6	651.8	622.9	571.4	539.5
2950.9	42.5°	2110.7	1290.6	676.5	641.5	648.2	654.3	633.2	566.3	529.7	510.7
3171.3	45°	2217.3	1361.7	697.6	621.4	628.6	639.4	576.6	544.7	528.2	528.7
3389.5	47.5°	2352.2	1436.3	736.7	603.9	600.3	606.5	539.0	519.4	496.8	502.5
3599.1	50°	2508.2	1512.0	773.8	580.2	568.9	548.8	514.8	496.3	467.5	454.1
3801.4	52.5°	2677.0	1585.1	788.7	551.4	534.9	511.7	498.3	475.7	440.7	418.5
3992.4	55°	2837.2	1651.5	772.2	516.9	500.9	482.9	480.8	466.9	429.4	398.5
4162.3	57.5°	2988.5	1707.1	731.0	481.9	466.4	455.6	469.5	462.8	415.5	375.8
4322.9	60°	3116.7	1745.2	671.3	446.3	435.5	429.9	451.0	448.9	395.9	351.6
4467.1	62.5°	3218.6	1760.2	605.4	412.4	409.8	399.5	425.2	425.2	371.2	327.9
4593.7	65°	3298.4	1745.7	538.5	378.9	384.1	368.6	393.8	390.7	344.9	306.8
4739.4	67.5°	3369.0	1698.4	464.4	346.0	357.8	338.2	360.9	353.7	316.1	285.7
4865.5	70°	3400.4	1588.2	379.9	313.0	327.4	308.4	327.9	314.6	283.7	263.1
4727.0	72.5°	3148.1	1320.0	299.1	278.5	290.9	275.4	292.4	277.0	248.7	239.4
4082.0	75°	2604.5	990.5	230.1	240.9	250.2	238.4	249.7	238.4	212.6	219.3
3015.3	77.5°	1891.4	668.7	176.1	201.3	205.4	199.2	209.0	196.1	173.0	171.4
1502.7	80°	940.6	391.8	138.0	159.1	157.5	153.4	164.7	158.6	139.0	147.2
405.7	82.5°	272.3	167.8	100.4	111.7	108.6	109.7	117.9	121.0	181.2	179.7
126.1	85°	85.5	65.9	60.2	62.3	59.2	60.7	69.5	138.0	127.7	74.6
39.1	87.5°	22.1	22.7	14.9	16.0	16.5	19.6	22.1	83.9	40.2	26.3
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>
1756.6
1672.6
1492.5
1243.8
1050.7
961.2
896.8
874.7
868.0
842.8
800.5
766.0
733.6
698.1
658.4
613.7
543.6
510.7
531.3
516.9
457.7
418.0
398.5
373.8
350.1
326.4
304.8
283.7
259.0
231.7
200.3
163.7
145.7
183.8
80.8
27.8
0.0

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