

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: P939772

Luminaire Tested: **GALN-SB2C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939772
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-SB2C-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15707 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

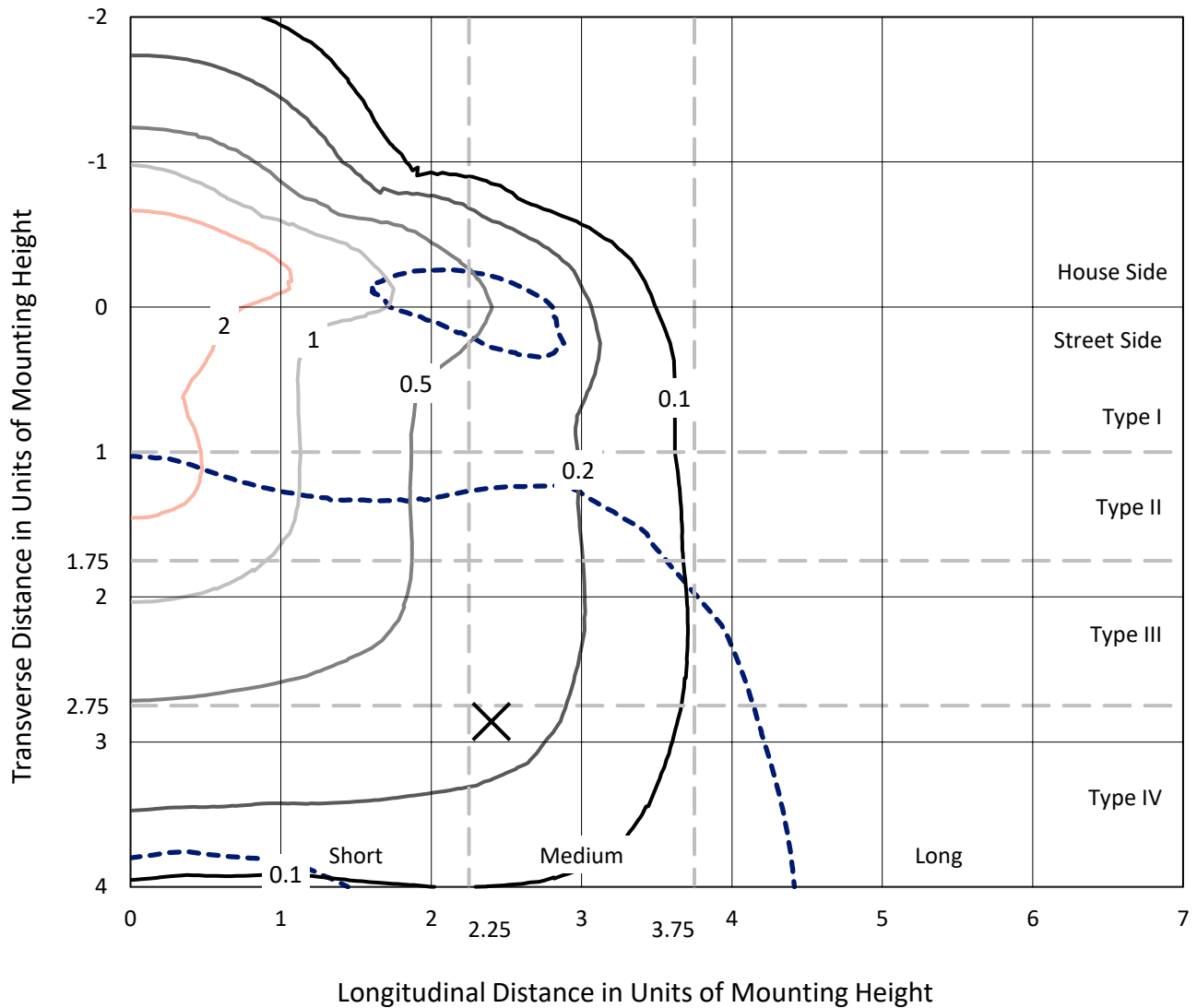
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

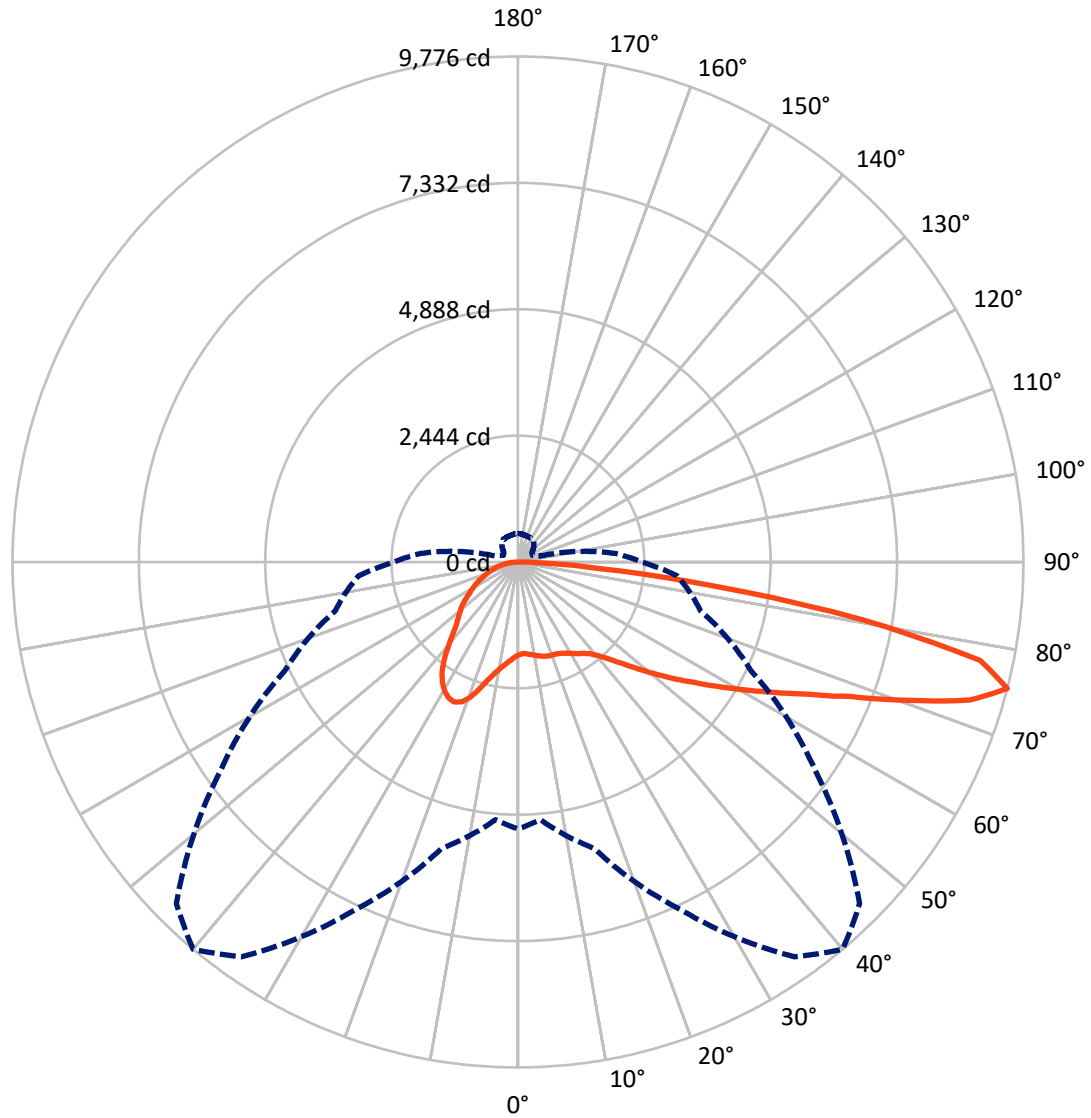
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	4866.6	0.0	4866.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10840.4	0.0	10840.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	15707.0	0.0	15707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	1.1
10°-20°	601.9	3.8
20°-30°	1099.1	7.0
30°-40°	1558.8	9.9
40°-50°	2104.9	13.4
50°-60°	2831.6	18.0
60°-70°	3594.0	22.9
70°-80°	3261.8	20.8
80°-90°	475.5	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°	15707.0	100.0
0°-180°	15707.0	100.0



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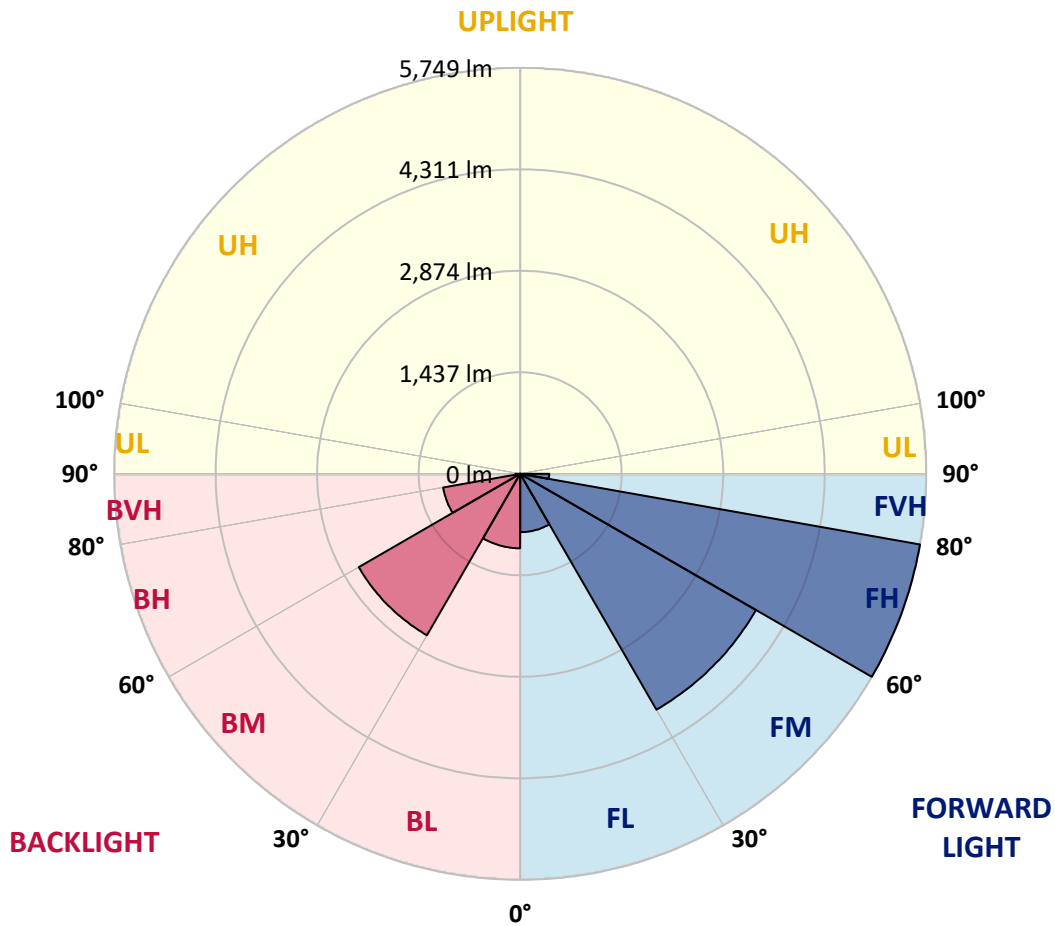
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.2	5.3			
FM (30°-60°)	3855.7	24.5			
FH (60°-80°)	5748.5	36.6			G3/7500
FVH (80°-90°)	410.0	2.6			G3/500
BL (0°-30°)	1054.1	6.7	B3/2500		
BM (30°-60°)	2639.7	16.8	B3/5000		
BH (60°-80°)	1107.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1
2.5°	1768.6	1778.6	1776.1	1772.8	1772.8	1773.6	1772.8	1778.6	1784.5	1790.3
5°	1787.0	1796.9	1792.0	1787.8	1784.5	1783.6	1781.1	1780.3	1783.6	1791.1
7.5°	1822.8	1832.8	1825.3	1817.8	1811.1	1807.8	1804.4	1799.4	1796.9	1801.1
10°	1862.8	1872.8	1863.6	1850.3	1839.4	1835.3	1831.9	1826.9	1823.6	1826.1
12.5°	1902.8	1912.7	1900.3	1881.9	1867.8	1865.3	1861.1	1859.4	1858.6	1857.8
15°	1940.2	1948.6	1932.7	1911.1	1896.1	1891.9	1887.8	1890.3	1894.4	1899.4
17.5°	1969.4	1977.7	1954.4	1926.1	1911.9	1910.2	1907.7	1916.1	1927.7	1940.2
20°	1996.1	2004.4	1974.4	1936.1	1919.4	1919.4	1920.2	1937.7	1954.4	1972.7
22.5°	2033.5	2040.2	2003.6	1951.1	1926.9	1928.6	1935.2	1952.7	1973.6	1998.6
25°	2089.4	2094.4	2049.4	1979.4	1951.9	1956.9	1962.7	1971.1	1991.1	2020.2
27.5°	2179.3	2183.5	2124.3	2029.4	1987.7	1996.1	2004.4	1998.6	2007.7	2032.7
30°	2306.0	2308.5	2233.5	2107.7	2048.5	2052.7	2054.4	2030.2	2012.7	2032.7
32.5°	2455.9	2455.1	2365.9	2202.7	2117.7	2113.5	2099.4	2051.9	2011.1	2028.5
35°	2688.3	2679.2	2564.2	2336.0	2196.0	2170.2	2136.8	2076.0	2019.4	2024.4
37.5°	3073.2	3044.9	2885.8	2554.2	2312.6	2246.8	2197.7	2115.2	2037.7	2022.7
40°	3507.3	3471.4	3296.5	2853.3	2487.6	2381.8	2302.6	2171.0	2067.7	2030.2
42.5°	4022.1	3971.3	3783.0	3205.7	2709.2	2555.9	2436.8	2241.8	2111.9	2054.4
45°	4654.4	4586.9	4320.3	3603.1	2988.3	2784.1	2625.0	2349.3	2179.3	2101.0
47.5°	5293.4	5310.0	4931.0	4057.9	3323.1	3065.7	2860.8	2510.9	2277.6	2176.0
50°	5972.3	5984.0	5538.3	4561.9	3703.0	3384.0	3125.7	2691.7	2414.3	2282.6
52.5°	6502.2	6503.8	6089.8	5089.3	4098.7	3733.9	3411.5	2898.3	2572.5	2424.3
55°	6833.7	6829.6	6476.3	5588.3	4553.6	4101.2	3728.0	3133.2	2765.8	2590.9
57.5°	7074.5	7062.0	6742.9	6017.3	5038.5	4535.3	4086.2	3399.8	2994.1	2789.1
60°	7166.1	7158.6	6923.7	6388.0	5548.3	5015.1	4499.5	3698.0	3253.2	3023.2
62.5°	7201.1	7215.3	7101.2	6747.1	6094.0	5546.6	4953.5	4054.6	3544.7	3288.2
65°	7324.4	7350.2	7326.9	7217.0	6710.4	6168.9	5555.8	4478.6	3863.0	3572.2
67.5°	7568.5	7594.3	7604.3	7779.3	7463.5	6944.5	6307.2	5006.8	4235.4	3867.1
70°	7562.7	7555.2	7731.8	8226.6	8406.6	8018.4	7320.3	5656.6	4679.4	4112.1
72.5°	6883.7	6823.7	7241.1	8221.6	9191.4	9139.7	8557.4	6494.7	5062.6	4142.1
75°	5164.3	5004.3	5741.6	7409.4	9322.1	9776.2	9343.8	7014.5	4971.8	3659.7
77.5°	2208.5	2047.7	2916.6	5485.0	8343.3	9138.9	8622.4	6119.8	3968.8	2420.1
80°	578.2	577.3	881.4	2486.7	5674.1	6748.8	5920.7	3952.1	2267.6	864.7
82.5°	239.1	233.3	324.1	967.2	2772.5	3787.2	3090.7	1762.8	818.9	234.1
85°	89.1	88.3	157.5	334.1	978.0	1562.0	1130.5	450.7	204.1	114.1
87.5°	25.0	24.2	34.2	115.8	238.3	361.6	193.3	74.1	57.5	45.0
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°
1796.1	0°	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1	1796.1
1799.4	2.5°	1801.9	1806.1	1813.6	1819.4	1826.9	1835.3	1846.9	1854.4	1861.9	1866.9
1803.6	5°	1809.4	1818.6	1837.8	1856.9	1879.4	1900.3	1924.4	1941.9	1956.1	1960.2
1818.6	7.5°	1826.1	1841.1	1873.6	1906.1	1941.9	1976.1	2011.1	2041.0	2065.2	2074.4
1845.3	10°	1855.3	1875.3	1921.1	1966.9	2014.4	2066.9	2111.9	2155.2	2189.3	2203.5
1876.9	12.5°	1891.9	1916.9	1976.9	2040.2	2106.0	2178.5	2236.8	2290.1	2332.6	2351.8
1921.1	15°	1939.4	1971.9	2048.5	2133.5	2230.2	2331.0	2405.1	2464.2	2511.7	2535.1
1966.9	17.5°	1991.1	2034.4	2131.0	2259.3	2397.6	2530.1	2616.7	2660.0	2709.2	2731.7
2009.4	20°	2041.0	2094.4	2232.6	2419.3	2603.4	2744.2	2814.1	2825.8	2829.1	2831.6
2049.4	22.5°	2092.7	2164.3	2360.1	2620.9	2818.3	2915.8	2925.8	2875.8	2805.8	2773.3
2088.5	25°	2149.3	2244.3	2526.7	2843.3	3003.2	3014.9	2938.3	2816.6	2684.2	2623.4
2120.2	27.5°	2204.3	2336.8	2726.7	3055.7	3136.5	3034.1	2869.1	2696.7	2536.7	2472.6
2142.7	30°	2259.3	2442.6	2947.4	3241.5	3197.4	2986.6	2760.0	2567.5	2406.8	2339.3
2162.7	32.5°	2315.1	2565.9	3201.5	3375.6	3186.5	2885.8	2624.2	2422.6	2281.0	2210.2
2180.2	35°	2378.4	2717.5	3442.3	3448.9	3114.0	2737.5	2445.1	2249.3	2126.0	2069.4
2201.0	37.5°	2460.9	2909.9	3654.7	3467.3	2987.4	2520.1	2222.7	2044.4	1942.7	1916.9
2231.8	40°	2563.4	3141.5	3817.2	3438.1	2800.0	2256.0	1979.4	1836.9	1779.5	1785.3
2273.5	42.5°	2696.7	3400.6	3931.3	3363.1	2539.2	1983.6	1766.1	1702.8	1730.3	1753.6
2336.0	45°	2870.0	3669.7	4002.1	3235.7	2244.3	1752.8	1640.3	1655.3	1676.2	1678.7
2436.8	47.5°	3091.6	3942.1	4048.8	3043.2	1943.6	1590.3	1560.4	1563.7	1559.5	1542.0
2587.5	50°	3368.1	4207.0	4090.4	2788.3	1687.8	1488.7	1448.7	1437.1	1379.6	1322.9
2788.3	52.5°	3683.0	4450.3	4107.9	2471.7	1488.7	1403.7	1338.8	1265.4	1158.0	1140.5
3040.7	55°	4032.9	4675.2	4062.9	2082.7	1321.3	1294.6	1196.3	1108.0	1096.3	1081.3
3373.1	57.5°	4451.1	4917.7	3971.3	1648.7	1149.6	1167.1	1071.3	1081.3	1060.5	1037.2
3800.5	60°	4908.5	5168.4	3810.5	1252.9	972.2	1008.0	1038.8	1038.0	1032.2	1013.0
4251.2	62.5°	5320.0	5333.4	3493.9	959.7	816.4	884.7	968.9	968.0	963.0	952.2
4721.9	65°	5565.0	5308.4	2965.8	755.6	688.1	783.1	873.9	880.6	881.4	880.6
5075.9	67.5°	5521.6	5016.0	2241.0	601.5	582.3	679.8	779.8	788.9	795.6	797.3
5120.9	70°	5031.8	4373.7	1461.2	479.9	488.2	589.0	690.6	699.8	705.6	712.3
4443.6	72.5°	3922.1	3215.7	836.4	388.2	405.7	510.7	602.3	613.1	616.5	629.0
3092.4	75°	2390.1	1891.1	451.5	305.7	333.2	436.5	514.8	527.3	533.2	548.2
1518.7	77.5°	1136.3	818.9	257.4	238.3	268.3	356.6	434.9	449.0	433.2	441.5
419.0	80°	384.0	304.1	162.5	181.6	204.9	278.2	348.2	362.4	329.1	327.4
139.1	82.5°	134.1	123.3	103.3	120.8	132.5	199.1	263.3	281.6	244.9	244.1
62.5	85°	52.5	50.0	57.5	65.8	79.1	122.5	173.3	182.4	150.8	121.6
18.3	87.5°	10.8	11.7	14.2	15.0	24.2	42.5	62.5	76.6	60.8	51.7
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>
1796.1
1863.6
1961.9
2075.2
2204.3
2351.8
2533.4
2730.8
2838.3
2782.5
2632.5
2480.1
2346.8
2219.3
2081.9
1935.2
1805.3
1775.3
1695.3
1555.4
1330.4
1146.3
1083.8
1033.0
1006.4
948.0
880.6
798.9
715.6
634.0
549.8
434.9
324.1
232.4
120.0
47.5
0.0

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