

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: P946054

Luminaire Tested: **GALN-SB1D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8798 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

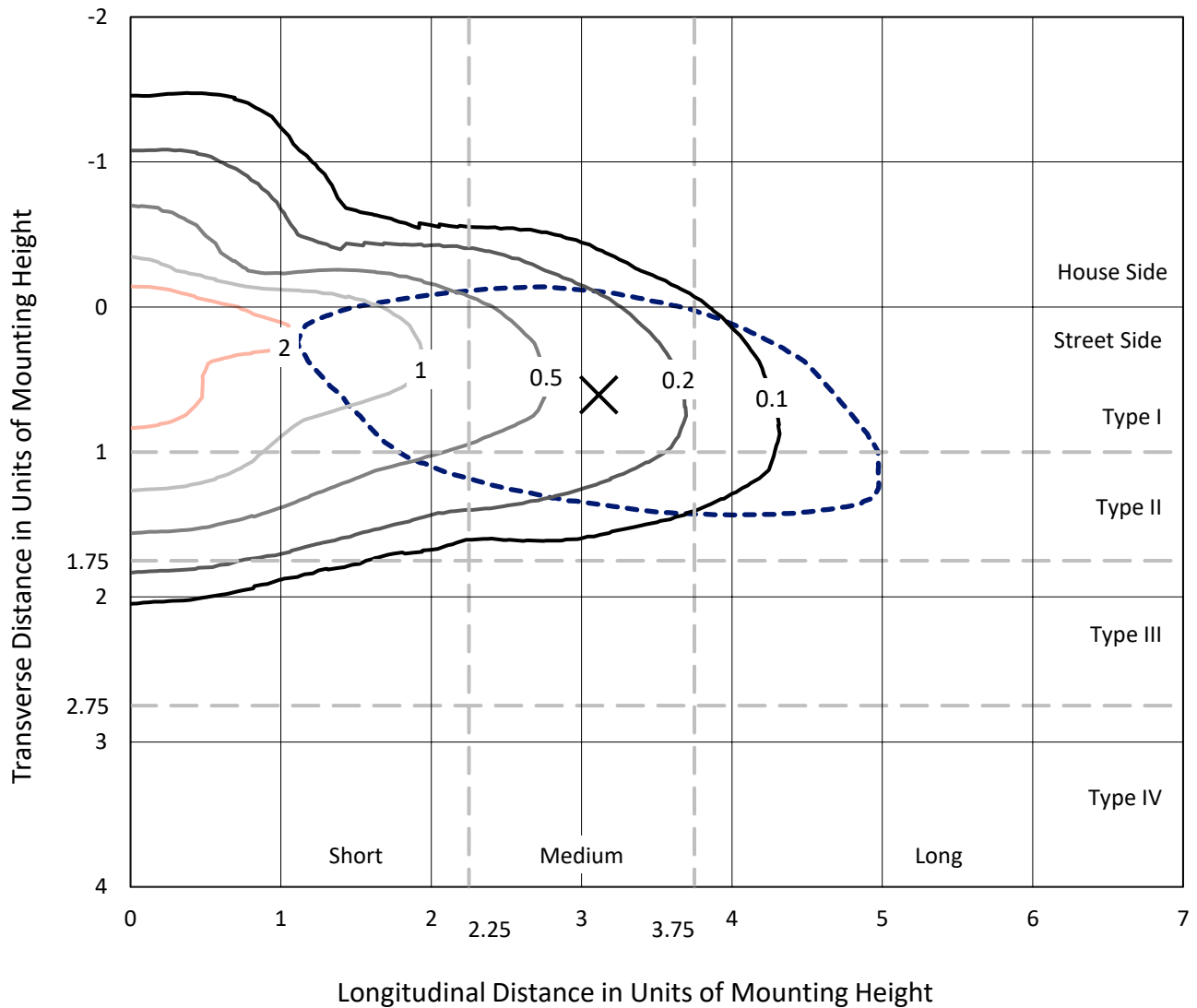
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

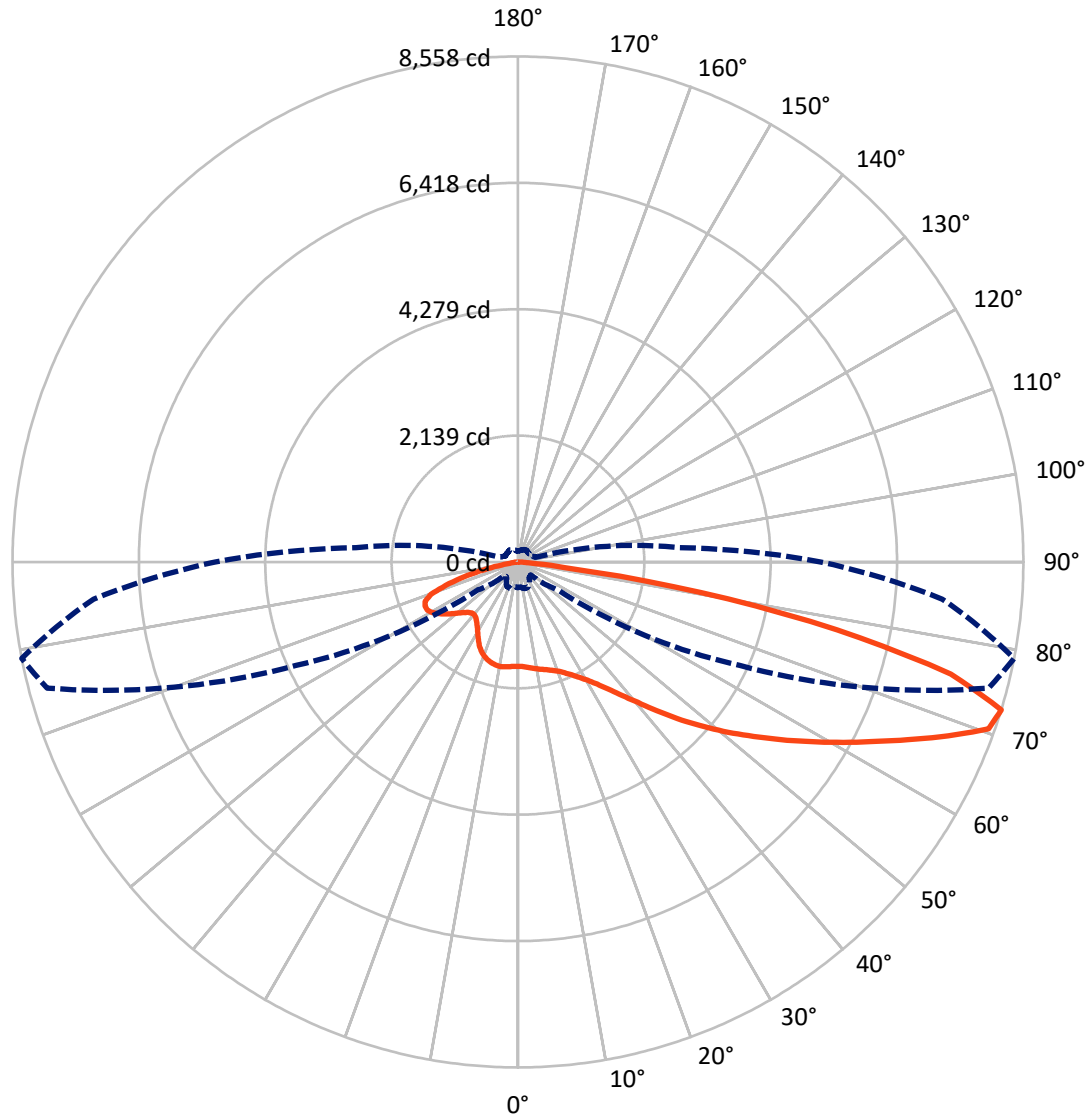
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.0	0.0	1936.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6862.0	0.0	6862.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	8798.0	0.0	8798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	1.8
10°-20°	419.1	4.8
20°-30°	676.3	7.7
30°-40°	1015.1	11.5
40°-50°	1439.9	16.4
50°-60°	1818.4	20.7
60°-70°	1846.8	21.0
70°-80°	1258.7	14.3
80°-90°	163.3	1.9
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°	8798.0	100.0
0°-180°	8798.0	100.0

Coefficient of Utilization



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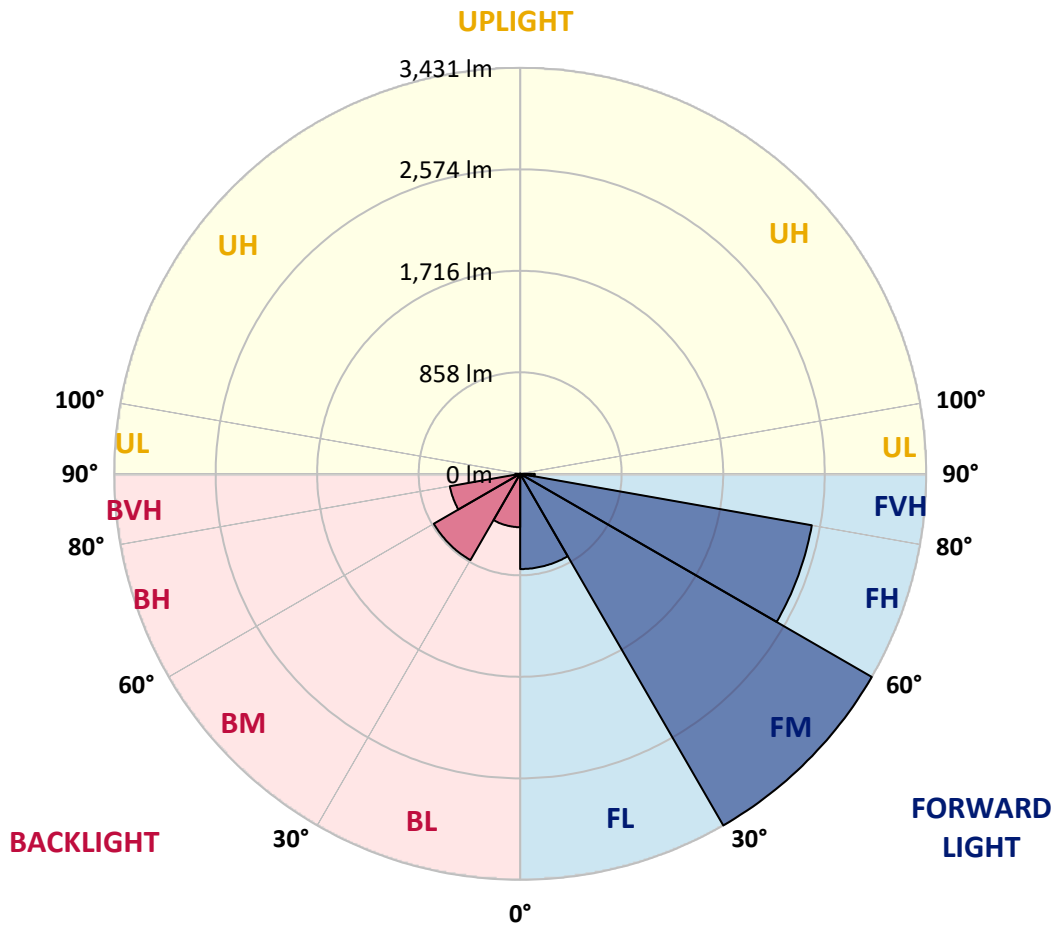
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.8	9.1			
FM (30°-60°)	3431.4	39.0			
FH (60°-80°)	2502.7	28.4			G2/5000
FVH (80°-90°)	123.0	1.4			G2/225
BL (0°-30°)	451.0	5.1	B1/500		
BM (30°-60°)	842.0	9.6	B1/1000		
BH (60°-80°)	602.8	6.9	B2/1000		G2/1000
BVH (80°-90°)	40.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1
2.5°	1767.0	1758.7	1763.8	1761.9	1764.3	1767.0	1768.0	1769.4	1774.0	1773.6
5°	1763.3	1754.9	1761.9	1759.6	1765.6	1772.2	1777.7	1782.9	1790.3	1793.6
7.5°	1755.4	1749.8	1756.8	1763.8	1775.0	1784.7	1792.6	1804.3	1815.0	1816.8
10°	1709.3	1705.2	1721.4	1739.6	1770.3	1796.8	1814.0	1827.5	1839.2	1841.0
12.5°	1661.4	1656.3	1674.4	1699.1	1748.9	1796.8	1833.1	1850.8	1861.1	1867.1
15°	1653.5	1649.3	1659.5	1681.0	1722.4	1784.3	1846.2	1878.7	1887.6	1894.6
17.5°	1691.7	1683.7	1687.9	1695.4	1719.6	1772.6	1856.4	1910.4	1923.9	1931.3
20°	1780.1	1768.9	1762.4	1747.5	1743.3	1774.5	1855.5	1948.5	1966.2	1975.5
22.5°	1897.8	1890.4	1876.4	1838.7	1797.8	1797.3	1873.2	1997.4	2030.5	2039.3
25°	2040.2	2029.1	2011.4	1960.2	1881.5	1842.4	1902.9	2059.8	2115.1	2117.5
27.5°	2204.0	2187.3	2163.1	2095.6	1989.5	1913.2	1948.5	2131.4	2212.4	2211.5
30°	2376.7	2359.9	2334.3	2252.4	2118.9	2008.6	2011.8	2208.7	2327.8	2322.7
32.5°	2502.8	2490.2	2485.1	2421.8	2267.8	2121.2	2084.4	2294.3	2470.2	2465.6
35°	2599.6	2583.3	2589.4	2557.3	2430.2	2247.3	2173.3	2396.2	2643.4	2642.9
37.5°	2695.5	2681.1	2686.2	2664.8	2580.5	2407.4	2281.8	2521.0	2857.9	2868.1
40°	2783.0	2767.6	2788.1	2768.1	2697.3	2577.7	2405.1	2662.0	3106.4	3126.0
42.5°	2835.6	2823.5	2857.4	2857.9	2798.8	2721.5	2540.5	2817.4	3394.0	3437.8
45°	2853.7	2849.5	2900.7	2911.4	2888.6	2804.8	2662.4	2986.8	3704.0	3782.1
47.5°	2834.2	2826.2	2897.0	2936.5	2954.7	2843.9	2763.4	3170.2	4020.4	4134.9
50°	2735.5	2720.1	2825.3	2908.6	2973.3	2869.5	2865.3	3381.9	4380.2	4505.3
52.5°	2558.2	2546.6	2666.2	2810.9	2932.4	2882.1	2979.8	3613.2	4721.7	4883.7
55°	2331.6	2316.2	2447.9	2636.8	2830.4	2877.9	3094.3	3872.0	5124.8	5289.0
57.5°	1972.3	1941.6	2108.2	2331.6	2664.3	2872.8	3213.4	4129.3	5534.3	5731.1
60°	1448.3	1402.7	1607.0	1871.8	2339.5	2823.0	3361.0	4417.8	6025.7	6203.0
62.5°	843.3	816.7	950.3	1197.4	1763.3	2529.8	3443.8	4753.4	6508.8	6694.9
65°	654.8	647.3	659.0	678.1	981.5	1894.1	3188.3	5080.5	7123.1	7253.4
67.5°	598.9	593.4	598.5	562.6	498.0	1055.0	2522.4	5163.4	7781.1	7860.3
70°	532.4	525.9	542.6	511.9	391.8	479.8	1629.8	4862.7	8304.7	8453.2
72.5°	433.7	426.3	465.4	451.4	330.0	308.1	818.6	4148.4	8249.8	8557.9
75°	333.2	329.0	375.6	387.2	269.0	242.5	392.8	3083.6	7259.9	7570.3
77.5°	258.8	255.5	279.2	321.6	216.9	188.0	241.5	1956.0	5471.0	5525.4
80°	194.1	184.8	206.6	249.0	168.9	137.3	163.8	1140.6	3458.2	3134.8
82.5°	121.5	116.8	135.0	166.1	119.1	94.5	106.6	630.1	1385.9	816.3
85°	69.3	67.5	73.5	94.9	64.7	54.4	61.0	278.3	253.2	174.1
87.5°	27.9	27.0	33.5	42.3	23.7	20.0	21.4	67.0	55.8	51.7
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°
1766.1	0°	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1
1773.1	2.5°	1771.2	1771.2	1764.7	1754.5	1742.8	1735.4	1723.3	1720.0	1707.5	1703.8
1788.9	5°	1792.6	1788.9	1768.9	1740.1	1700.5	1664.2	1624.2	1599.0	1563.7	1551.1
1820.1	7.5°	1819.6	1809.4	1775.0	1711.7	1628.8	1547.4	1462.7	1398.5	1337.0	1315.2
1845.7	10°	1844.3	1829.9	1771.2	1660.5	1517.1	1376.1	1241.2	1146.7	1075.0	1045.7
1874.1	12.5°	1869.0	1842.4	1746.6	1575.3	1358.4	1167.2	1023.4	949.8	905.6	870.3
1897.4	15°	1892.2	1855.0	1708.4	1461.3	1184.4	990.3	884.2	825.6	790.2	766.9
1931.3	17.5°	1919.2	1865.7	1651.2	1316.6	1018.7	867.9	781.4	746.0	739.0	736.2
1977.9	20°	1956.9	1875.5	1575.8	1154.6	896.8	770.2	725.5	722.3	721.8	720.4
2033.7	22.5°	1997.4	1887.1	1476.2	1007.5	793.0	709.2	701.3	694.8	690.6	690.2
2101.2	25°	2045.3	1890.8	1351.5	887.0	704.6	680.4	671.1	661.3	658.5	658.5
2178.0	27.5°	2091.9	1878.3	1206.3	782.3	654.8	653.9	641.8	638.5	638.0	639.4
2265.5	30°	2138.4	1854.5	1062.0	685.5	625.9	625.9	621.7	624.1	625.9	630.6
2385.5	32.5°	2201.2	1829.4	941.5	613.8	600.8	596.2	600.3	605.0	606.9	612.9
2543.3	35°	2293.4	1811.7	845.6	574.7	574.7	568.7	571.0	570.1	565.9	563.1
2734.1	37.5°	2415.3	1810.8	766.5	556.6	552.9	551.9	552.4	546.4	530.1	510.5
2964.9	40°	2561.9	1835.9	705.5	544.0	541.2	546.8	544.0	527.7	483.1	449.1
3248.8	42.5°	2758.8	1907.6	666.4	528.7	537.0	544.0	532.9	476.5	446.3	423.5
3572.3	45°	2990.5	2023.9	646.4	512.4	529.1	537.5	483.5	458.9	434.7	407.2
3925.0	47.5°	3253.0	2170.5	641.8	497.0	511.5	516.6	462.6	451.4	424.0	394.2
4279.6	50°	3538.7	2344.1	654.3	478.9	485.9	468.2	455.6	445.4	417.0	387.7
4643.1	52.5°	3834.3	2535.4	679.5	454.2	460.3	440.7	452.8	444.0	412.8	373.2
5018.7	55°	4124.7	2728.1	703.7	425.4	434.2	416.0	444.9	438.4	393.7	349.0
5419.3	57.5°	4419.7	2919.8	727.4	399.8	409.1	392.3	432.3	423.5	372.3	326.7
5856.8	60°	4726.4	3105.9	738.6	375.1	381.6	370.4	413.3	397.9	348.1	303.9
6286.8	62.5°	5013.5	3260.9	720.4	350.4	354.6	350.0	388.1	367.6	323.9	278.3
6735.0	65°	5301.6	3353.1	664.6	326.2	327.2	324.8	352.8	335.1	295.5	256.0
7127.3	67.5°	5562.7	3404.7	575.7	300.2	297.8	296.9	319.7	299.7	268.1	233.6
7425.6	70°	5618.1	3273.5	439.8	269.5	269.5	267.1	283.4	262.9	237.8	209.9
7212.0	72.5°	5131.3	2753.6	312.3	234.6	238.3	233.6	247.1	229.9	207.1	188.5
6215.6	75°	4137.7	2019.3	227.1	198.7	205.2	197.3	209.9	197.8	178.2	177.8
4283.4	77.5°	2843.0	1248.6	164.7	163.8	168.5	158.2	172.7	166.1	148.5	140.5
1864.3	80°	1213.2	498.0	120.1	126.6	126.6	117.3	134.0	135.9	120.5	116.8
359.7	82.5°	241.5	141.5	84.2	87.0	81.9	79.1	94.9	105.2	145.2	161.5
108.4	85°	72.6	52.1	50.7	47.5	41.9	42.3	55.8	105.6	130.3	74.5
35.8	87.5°	20.0	13.0	13.5	10.7	8.8	11.6	19.1	80.0	43.7	18.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1766.1
1709.8
1560.4
1318.0
1052.2
881.9
771.1
738.1
725.1
695.3
661.3
643.2
633.8
618.0
569.6
511.0
448.2
422.6
405.3
391.8
384.4
370.4
346.7
325.8
302.5
277.8
253.2
230.8
209.0
182.9
160.1
131.7
116.8
162.0
64.2
15.8
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