

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: P946075

Luminaire Tested: **GALN-SB1D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946075
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9091 lumens
Efficiency: N/A
Efficacy: 114.2 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

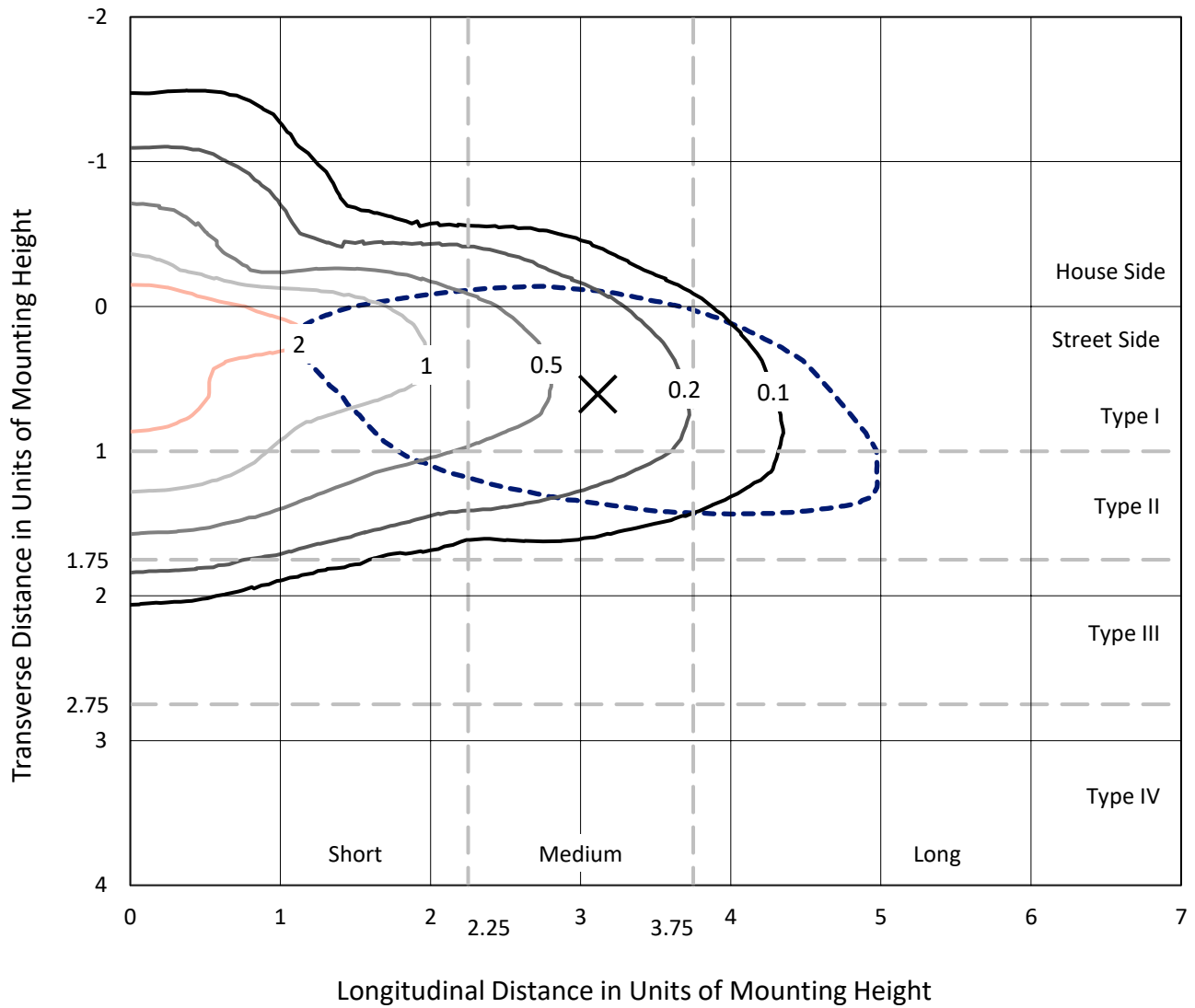
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

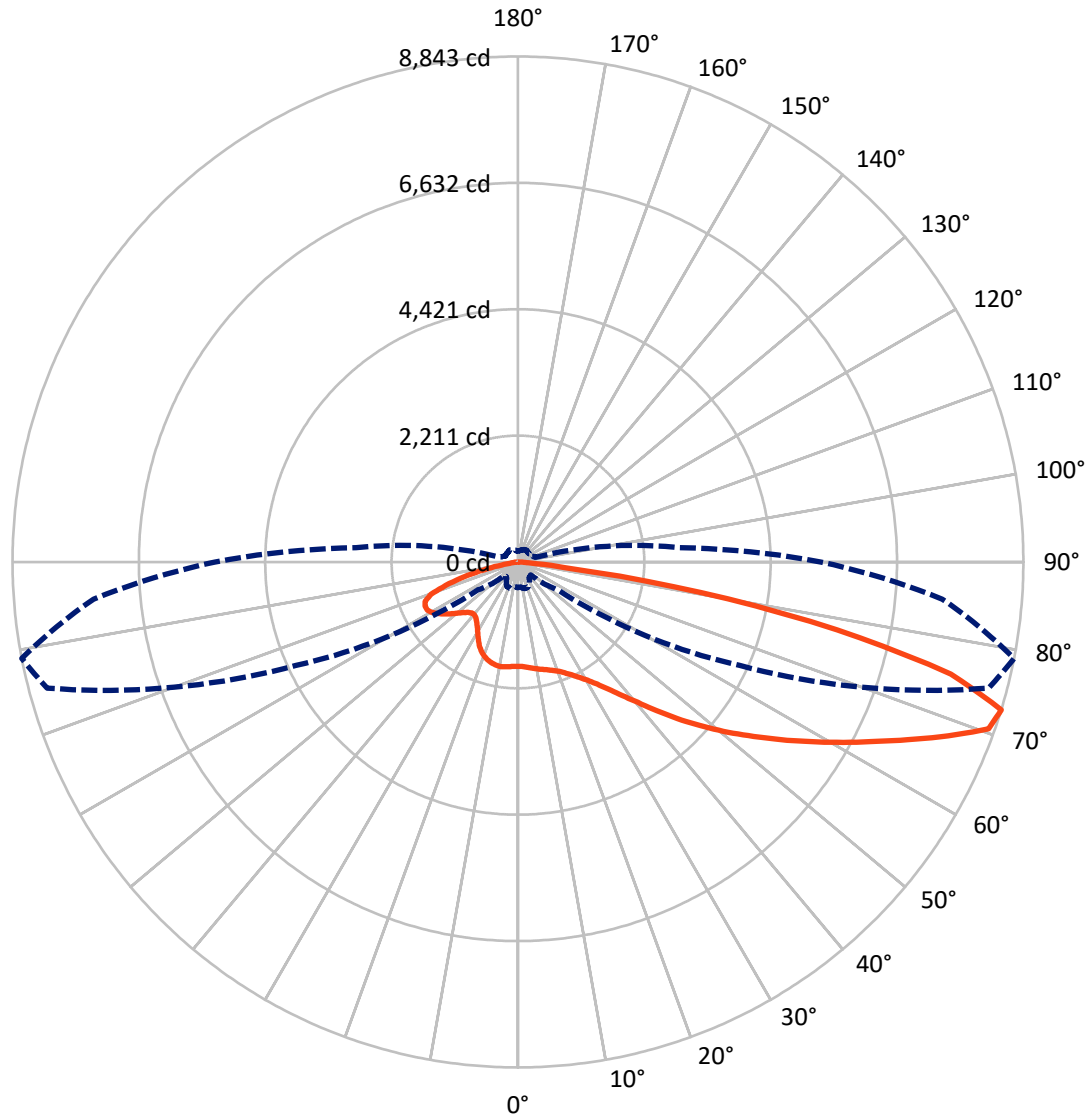
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	2000.5	0.0	2000.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7090.5	0.0	7090.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	9091.0	0.0	9091.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.8
10°-20°	433.1	4.8
20°-30°	698.8	7.7
30°-40°	1048.9	11.5
40°-50°	1487.9	16.4
50°-60°	1879.0	20.7
60°-70°	1908.4	21.0
70°-80°	1300.6	14.3
80°-90°	168.7	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°	9091.0	100.0
0°-180°	9091.0	100.0



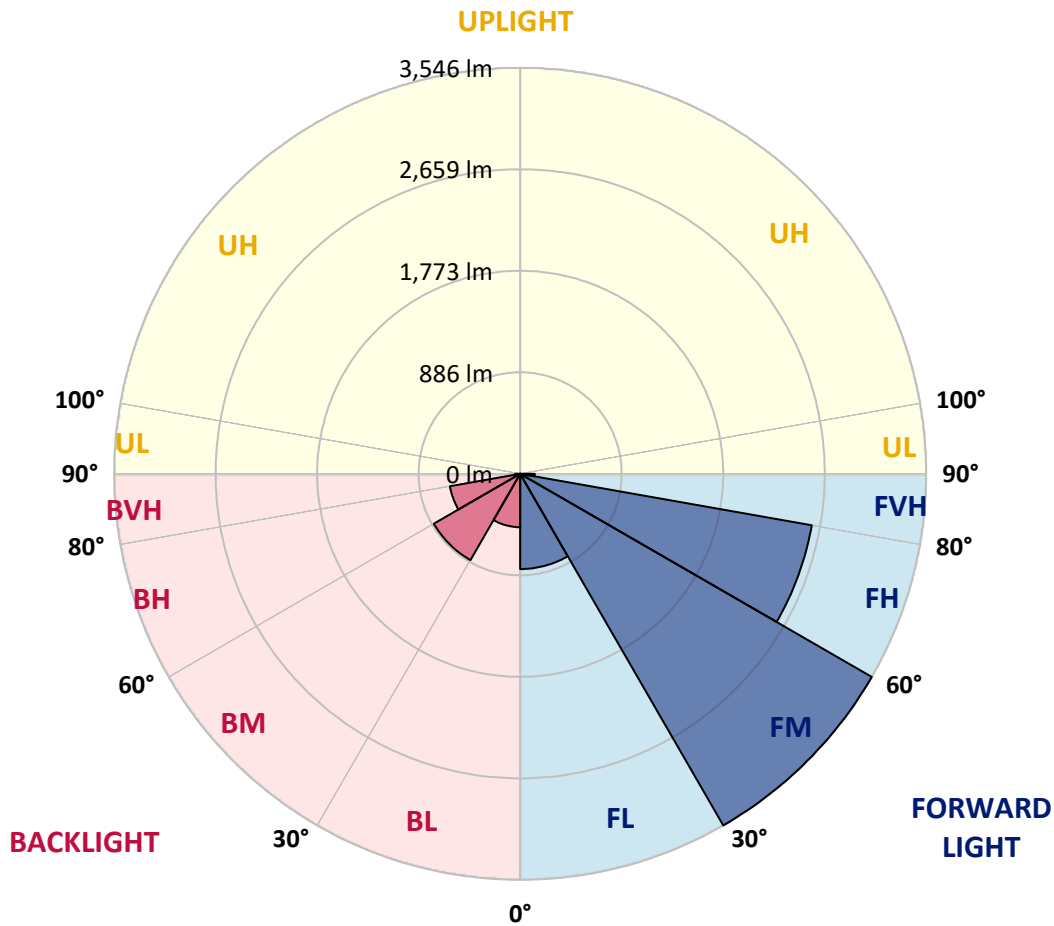
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.6	9.1			
FM (30°-60°)	3545.7	39.0			
FH (60°-80°)	2586.1	28.4			G2/5000
FVH (80°-90°)	127.1	1.4			G2/225
BL (0°-30°)	466.0	5.1	B1/500		
BM (30°-60°)	870.0	9.6	B1/1000		
BH (60°-80°)	622.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	41.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9
2.5°	1825.9	1817.2	1822.5	1820.6	1823.0	1825.9	1826.9	1828.3	1833.1	1832.6
5°	1822.0	1813.4	1820.6	1818.2	1824.5	1831.2	1837.0	1842.2	1849.9	1853.3
7.5°	1813.9	1808.1	1815.3	1822.5	1834.1	1844.2	1852.3	1864.4	1875.4	1877.3
10°	1766.3	1761.9	1778.8	1797.5	1829.3	1856.7	1874.5	1888.4	1900.4	1902.4
12.5°	1716.7	1711.4	1730.2	1755.7	1807.1	1856.7	1894.2	1912.5	1923.0	1929.3
15°	1708.6	1704.2	1714.8	1736.9	1779.7	1843.7	1907.6	1941.3	1950.4	1957.7
17.5°	1748.0	1739.8	1744.1	1751.8	1776.8	1831.7	1918.2	1974.0	1987.9	1995.6
20°	1839.4	1827.8	1821.1	1805.7	1801.4	1833.6	1917.3	2013.4	2031.7	2041.3
22.5°	1961.0	1953.3	1938.9	1899.9	1857.6	1857.2	1935.5	2063.9	2098.1	2107.2
25°	2108.2	2096.6	2078.4	2025.5	1944.2	1903.8	1966.3	2128.4	2185.6	2188.0
27.5°	2277.4	2260.1	2235.1	2165.4	2055.8	1976.9	2013.4	2202.4	2286.1	2285.1
30°	2455.8	2438.5	2412.1	2327.4	2189.4	2075.5	2078.8	2282.2	2405.4	2400.1
32.5°	2586.2	2573.2	2567.9	2502.5	2343.3	2191.8	2153.9	2370.7	2552.5	2547.7
35°	2686.2	2669.4	2675.6	2642.4	2511.1	2322.2	2245.7	2476.0	2731.4	2730.9
37.5°	2785.2	2770.3	2775.6	2753.5	2666.5	2487.6	2357.7	2604.9	2953.1	2963.7
40°	2875.7	2859.8	2880.9	2860.3	2787.2	2663.6	2485.2	2750.6	3209.9	3230.1
42.5°	2930.0	2917.5	2952.6	2953.1	2892.0	2812.2	2625.1	2911.2	3507.0	3552.2
45°	2948.7	2944.4	2997.3	3008.4	2984.8	2898.3	2751.1	3086.3	3827.3	3908.1
47.5°	2928.5	2920.4	2993.5	3034.3	3053.1	2938.6	2855.5	3275.7	4154.3	4272.6
50°	2826.6	2810.7	2919.4	3005.5	3072.3	2965.1	2960.8	3494.5	4526.0	4655.4
52.5°	2643.4	2631.4	2754.9	2904.5	3030.0	2978.1	3079.1	3733.5	4879.0	5046.3
55°	2409.2	2393.3	2529.4	2724.7	2924.7	2973.7	3197.4	4000.9	5295.4	5465.2
57.5°	2038.0	2006.2	2178.4	2409.2	2753.0	2968.5	3320.5	4266.8	5718.6	5922.0
60°	1496.5	1449.4	1660.5	1934.1	2417.4	2917.0	3472.9	4565.0	6226.4	6409.6
62.5°	871.4	843.9	982.0	1237.3	1822.0	2614.1	3558.5	4911.7	6725.6	6917.9
65°	676.6	668.9	680.9	700.6	1014.2	1957.2	3294.5	5249.7	7360.3	7495.0
67.5°	618.9	613.1	618.4	581.4	514.5	1090.2	2606.4	5335.3	8040.3	8122.0
70°	550.1	543.4	560.7	529.0	404.9	495.8	1684.0	5024.7	8581.3	8734.7
72.5°	448.2	440.5	480.9	466.5	340.9	318.3	845.9	4286.5	8524.5	8842.9
75°	344.3	340.0	388.1	400.1	277.9	250.5	405.9	3186.3	7501.7	7822.4
77.5°	267.4	264.0	288.5	332.3	224.1	194.3	249.6	2021.1	5653.2	5709.5
80°	200.5	190.9	213.5	257.3	174.6	141.9	169.3	1178.6	3573.4	3239.2
82.5°	125.5	120.7	139.5	171.7	123.1	97.6	110.1	651.1	1432.1	843.5
85°	71.7	69.7	76.0	98.1	66.8	56.3	63.0	287.6	261.6	179.8
87.5°	28.9	27.9	34.6	43.8	24.5	20.7	22.1	69.2	57.7	53.4
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°
1824.9	0°	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9
1832.1	2.5°	1830.2	1830.2	1823.5	1812.9	1800.9	1793.2	1780.7	1777.3	1764.3	1760.5
1848.5	5°	1852.3	1848.5	1827.8	1798.0	1757.1	1719.6	1678.3	1652.3	1615.7	1602.8
1880.7	7.5°	1880.2	1869.7	1834.1	1768.7	1683.1	1598.9	1511.4	1445.0	1381.6	1359.0
1907.2	10°	1905.7	1890.8	1830.2	1715.8	1567.7	1422.0	1282.5	1184.9	1110.8	1080.5
1936.5	12.5°	1931.2	1903.8	1804.7	1627.8	1403.7	1206.0	1057.5	981.5	935.8	899.2
1960.5	15°	1955.2	1916.8	1765.3	1510.0	1223.8	1023.3	913.7	853.1	816.5	792.5
1995.6	17.5°	1983.1	1927.8	1706.2	1360.4	1052.6	896.8	807.4	770.8	763.6	760.7
2043.7	20°	2022.1	1937.9	1628.3	1193.1	926.7	795.9	749.7	746.3	745.8	744.4
2101.4	22.5°	2063.9	1950.0	1525.3	1041.1	819.4	732.9	724.7	718.0	713.6	713.1
2171.2	25°	2113.5	1953.8	1396.5	916.6	728.0	703.0	693.4	683.3	680.4	680.4
2250.5	27.5°	2161.5	1940.8	1246.4	808.4	676.6	675.6	663.1	659.8	659.3	660.7
2340.9	30°	2209.6	1916.3	1097.4	708.3	646.8	646.8	642.5	644.9	646.8	651.6
2465.0	32.5°	2274.6	1890.3	972.8	634.3	620.8	616.0	620.3	625.1	627.1	633.3
2628.0	35°	2369.8	1872.1	873.8	593.9	593.9	587.6	590.0	589.1	584.7	581.9
2825.2	37.5°	2495.8	1871.1	792.0	575.1	571.3	570.3	570.8	564.6	547.7	527.5
3063.7	40°	2647.2	1897.1	729.0	562.1	559.3	565.0	562.1	545.3	499.2	464.0
3357.0	42.5°	2850.6	1971.1	688.6	546.3	554.9	562.1	550.6	492.4	461.2	437.6
3691.2	45°	3090.1	2091.3	667.9	529.4	546.8	555.4	499.6	474.1	449.1	420.8
4055.7	47.5°	3361.3	2242.8	663.1	513.6	528.5	533.8	478.0	466.5	438.1	407.3
4422.2	50°	3656.6	2422.2	676.1	494.8	502.0	483.8	470.8	460.2	430.9	400.6
4797.7	52.5°	3962.0	2619.8	702.1	469.3	475.6	455.4	467.9	458.8	426.5	385.7
5185.8	55°	4262.0	2818.9	727.1	439.5	448.7	429.9	459.7	453.0	406.8	360.7
5599.8	57.5°	4566.9	3017.0	751.6	413.1	422.7	405.4	446.7	437.6	384.7	337.6
6051.8	60°	4883.8	3209.4	763.2	387.6	394.3	382.8	427.0	411.2	359.7	314.0
6496.2	62.5°	5180.5	3369.5	744.4	362.1	366.4	361.6	401.1	379.9	334.7	287.6
6959.3	65°	5478.2	3464.7	686.7	337.1	338.1	335.7	364.5	346.2	305.4	264.5
7364.6	67.5°	5747.9	3518.1	594.8	310.2	307.8	306.8	330.4	309.7	277.0	241.4
7672.9	70°	5805.2	3382.5	454.4	278.4	278.4	276.0	292.9	271.7	245.7	216.9
7452.2	72.5°	5302.2	2845.4	322.7	242.4	246.2	241.4	255.3	237.6	214.0	194.8
6422.6	75°	4275.5	2086.5	234.7	205.3	212.1	203.9	216.9	204.4	184.2	183.7
4426.0	77.5°	2937.7	1290.2	170.2	169.3	174.1	163.5	178.4	171.7	153.4	145.2
1926.4	80°	1253.6	514.5	124.1	130.8	130.8	121.2	138.5	140.4	124.5	120.7
371.7	82.5°	249.6	146.2	87.0	89.9	84.6	81.7	98.1	108.7	150.0	166.9
112.0	85°	75.0	53.9	52.4	49.0	43.3	43.8	57.7	109.2	134.6	76.9
37.0	87.5°	20.7	13.5	13.9	11.1	9.1	12.0	19.7	82.7	45.2	19.2
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>
1824.9
1766.7
1612.4
1361.8
1087.3
911.3
796.8
762.7
749.2
718.4
683.3
664.6
655.0
638.6
588.6
528.0
463.1
436.6
418.8
404.9
397.2
382.8
358.3
336.6
312.6
287.1
261.6
238.5
215.9
<i>189.0</i>
165.4
136.1
120.7
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66.4
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0.0

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