

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: P946495

Luminaire Tested: **GALN-SB2A-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946495
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-SB2A-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8529 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

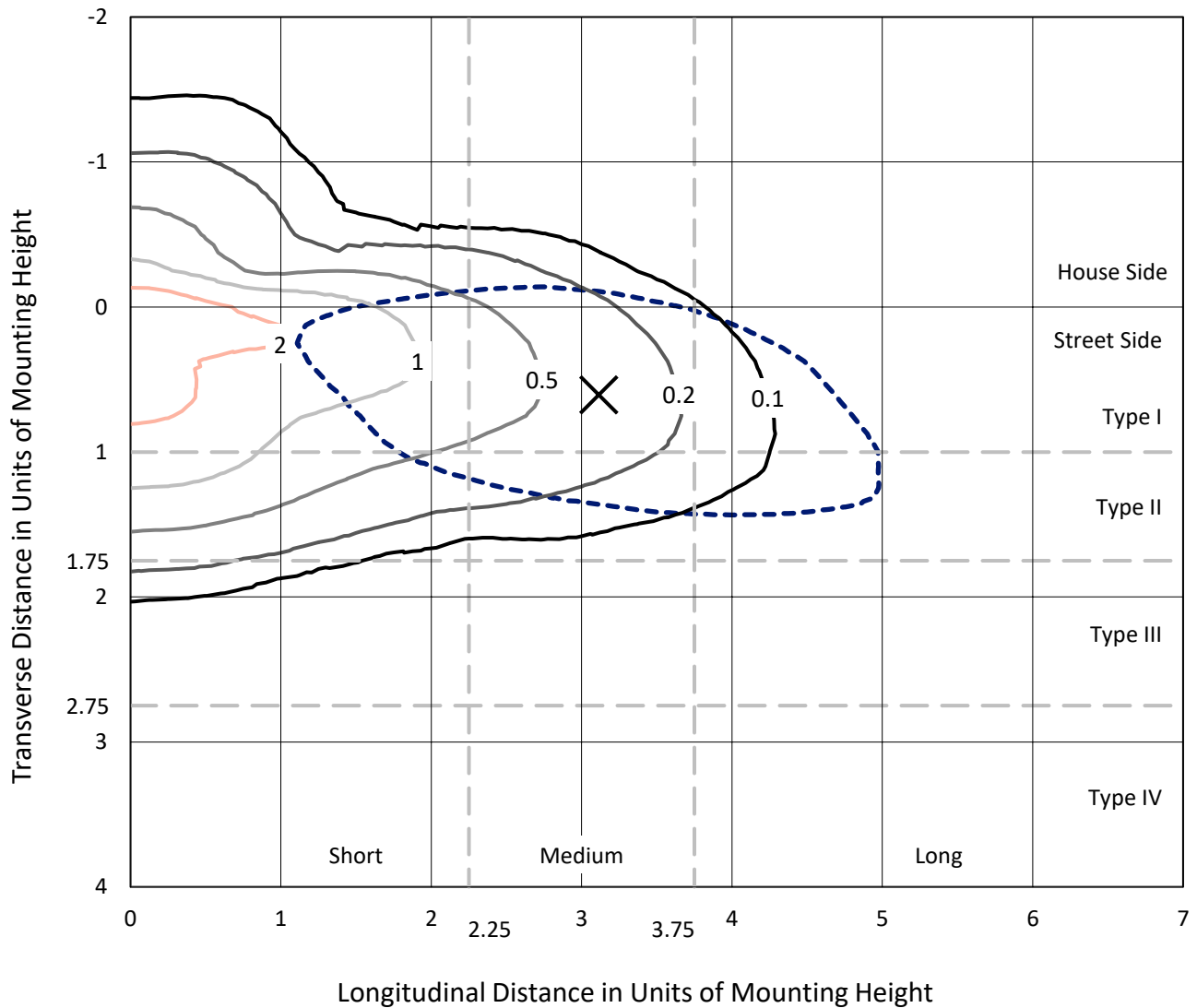
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

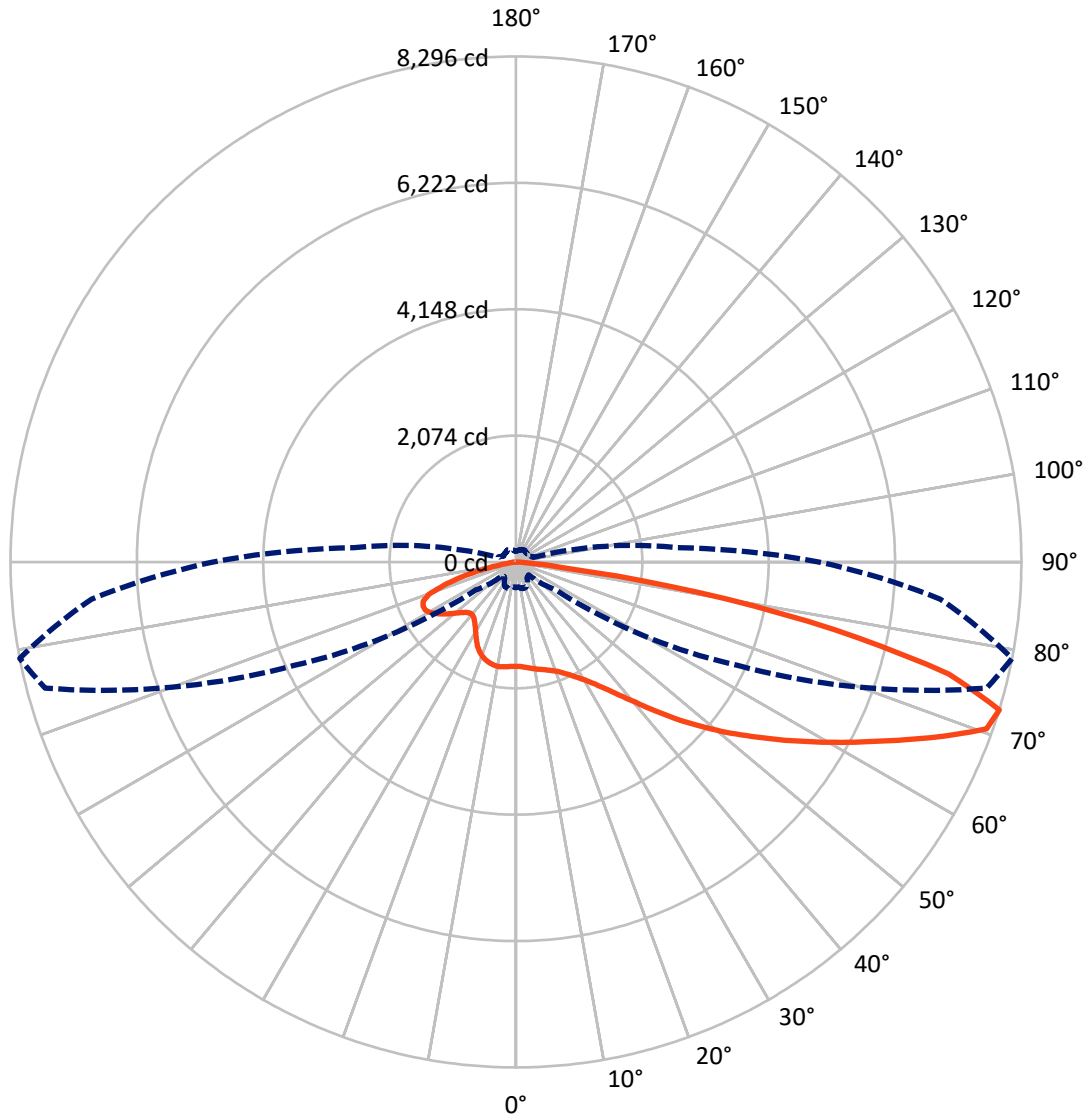
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SB2A-850-U-SL2

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	1876.8	0.0	1876.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6652.2	0.0	6652.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	8529.0	0.0	8529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.8
10°-20°	406.3	4.8
20°-30°	655.6	7.7
30°-40°	984.0	11.5
40°-50°	1395.9	16.4
50°-60°	1762.8	20.7
60°-70°	1790.4	21.0
70°-80°	1220.2	14.3
80°-90°	158.3	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°	8529.0	100.0
0°-180°	8529.0	100.0

Coefficient of Utilization



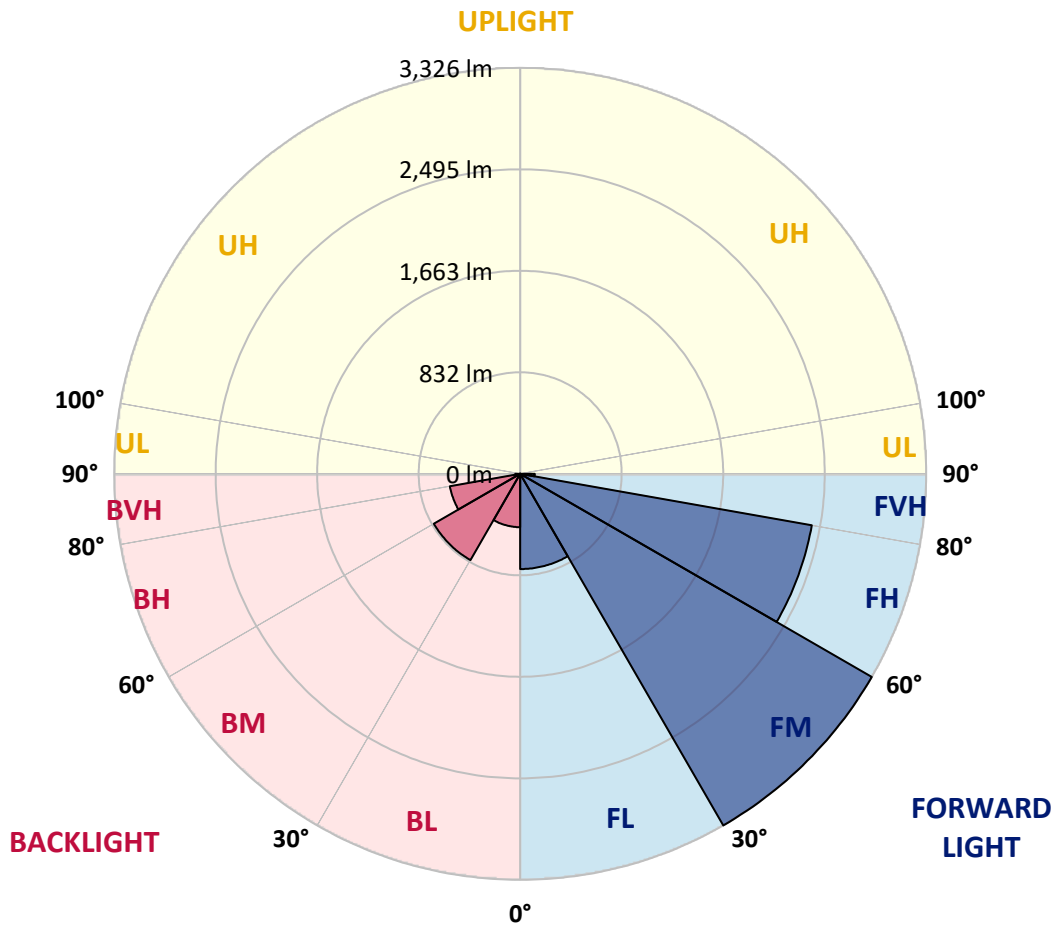
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.2	9.1			
FM (30°-60°)	3326.5	39.0			
FH (60°-80°)	2426.2	28.4			G2/5000
FVH (80°-90°)	119.3	1.4			G2/225
BL (0°-30°)	437.2	5.1	B1/500		
BM (30°-60°)	816.2	9.6	B1/1000		
BH (60°-80°)	584.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	39.1	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°	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1
2.5°	1713.0	1704.9	1709.9	1708.1	1710.3	1713.0	1713.9	1715.3	1719.8	1719.3
5°	1709.4	1701.3	1708.1	1705.8	1711.7	1718.0	1723.4	1728.4	1735.6	1738.7
7.5°	1701.7	1696.3	1703.1	1709.9	1720.7	1730.2	1737.8	1749.1	1759.5	1761.3
10°	1657.1	1653.0	1668.8	1686.4	1716.2	1741.9	1758.6	1771.7	1782.9	1784.8
12.5°	1610.6	1605.6	1623.2	1647.2	1695.4	1741.9	1777.1	1794.2	1804.2	1810.0
15°	1602.9	1598.9	1608.8	1629.6	1669.7	1729.7	1789.7	1821.3	1829.9	1836.6
17.5°	1639.9	1632.3	1636.3	1643.5	1667.0	1718.4	1799.6	1852.0	1865.1	1872.3
20°	1725.7	1714.8	1708.5	1694.1	1690.0	1720.2	1798.7	1889.0	1906.1	1915.1
22.5°	1839.8	1832.6	1819.0	1782.5	1742.8	1742.3	1815.9	1936.3	1968.4	1976.9
25°	1977.8	1967.0	1949.9	1900.2	1824.0	1786.1	1844.8	1996.8	2050.5	2052.7
27.5°	2136.6	2120.4	2096.9	2031.5	1928.7	1854.7	1889.0	2066.3	2144.8	2143.9
30°	2304.0	2287.8	2263.0	2183.6	2054.1	1947.2	1950.3	2141.2	2256.7	2251.7
32.5°	2426.3	2414.1	2409.1	2347.8	2198.5	2056.3	2020.7	2224.2	2394.7	2390.2
35°	2520.1	2504.3	2510.2	2479.1	2355.9	2178.6	2106.9	2323.0	2562.5	2562.1
37.5°	2613.1	2599.1	2604.0	2583.3	2501.6	2333.8	2212.0	2443.9	2770.5	2780.4
40°	2697.9	2683.0	2702.8	2683.4	2614.9	2498.9	2331.5	2580.6	3011.4	3030.4
42.5°	2748.9	2737.1	2770.1	2770.5	2713.2	2638.3	2462.8	2731.3	3290.2	3332.6
45°	2766.5	2762.4	2812.0	2822.4	2800.3	2719.1	2581.0	2895.5	3590.7	3666.5
47.5°	2747.5	2739.8	2808.4	2846.8	2864.4	2757.0	2678.9	3073.2	3897.5	4008.5
50°	2651.9	2637.0	2738.9	2819.7	2882.4	2781.8	2777.7	3278.5	4246.2	4367.6
52.5°	2480.0	2468.7	2584.6	2724.9	2842.7	2794.0	2888.7	3502.7	4577.4	4734.4
55°	2260.3	2245.4	2373.1	2556.2	2743.9	2789.9	2999.7	3753.6	4968.1	5127.3
57.5°	1912.0	1882.2	2043.7	2260.3	2582.8	2785.0	3115.2	4003.1	5365.1	5555.9
60°	1404.0	1359.8	1557.8	1814.5	2267.9	2736.7	3258.2	4282.8	5841.5	6013.4
62.5°	817.5	791.8	921.2	1160.8	1709.4	2452.5	3338.5	4608.0	6309.8	6490.2
65°	634.8	627.6	638.8	657.3	951.5	1836.2	3090.8	4925.2	6905.3	7031.6
67.5°	580.6	575.2	580.2	545.4	482.7	1022.8	2445.2	5005.5	7543.2	7619.9
70°	516.1	509.8	526.0	496.3	379.9	465.1	1579.9	4714.1	8050.8	8194.7
72.5°	420.5	413.3	451.2	437.6	319.9	298.7	793.6	4021.6	7997.5	8296.2
75°	323.0	319.0	364.1	375.4	260.8	235.0	380.8	2989.3	7037.9	7338.9
77.5°	250.8	247.7	270.7	311.7	210.2	182.3	234.1	1896.2	5303.7	5356.5
80°	188.1	179.1	200.3	241.4	163.8	133.1	158.8	1105.8	3352.5	3038.9
82.5°	117.8	113.2	130.8	161.1	115.5	91.6	103.3	610.9	1343.5	791.3
85°	67.2	65.4	71.3	92.0	62.7	52.8	59.1	269.8	245.4	168.7
87.5°	27.1	26.2	32.5	41.1	23.0	19.4	20.8	65.0	54.1	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946495
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1712.1	0°	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1
1718.9	2.5°	1717.1	1717.1	1710.8	1700.8	1689.6	1682.3	1670.6	1667.5	1655.3	1651.7
1734.2	5°	1737.8	1734.2	1714.8	1686.9	1648.5	1613.3	1574.5	1550.2	1515.9	1503.7
1764.4	7.5°	1764.0	1754.1	1720.7	1659.3	1579.0	1500.1	1418.0	1355.7	1296.2	1275.0
1789.3	10°	1787.9	1773.9	1717.1	1609.7	1470.8	1334.1	1203.2	1111.6	1042.2	1013.7
1816.8	12.5°	1811.8	1786.1	1693.2	1527.1	1316.9	1131.5	992.1	920.8	877.9	843.7
1839.3	15°	1834.4	1798.3	1656.2	1416.6	1148.2	960.0	857.2	800.3	766.1	743.5
1872.3	17.5°	1860.5	1808.7	1600.7	1276.3	987.6	841.4	757.5	723.2	716.4	713.7
1917.4	20°	1897.1	1818.1	1527.6	1119.3	869.4	746.7	703.3	700.2	699.7	698.4
1971.5	22.5°	1936.3	1829.4	1431.0	976.7	768.8	687.6	679.9	673.6	669.5	669.1
2036.9	25°	1982.8	1833.0	1310.1	859.9	683.0	659.6	650.6	641.1	638.4	638.4
2111.4	27.5°	2027.9	1820.8	1169.4	758.4	634.8	633.9	622.1	619.0	618.5	619.9
2196.2	30°	2073.0	1797.8	1029.5	664.5	606.8	606.8	602.7	605.0	606.8	611.3
2312.6	32.5°	2133.9	1773.5	912.7	595.1	582.4	577.9	582.0	586.5	588.3	594.2
2465.5	35°	2223.3	1756.3	819.7	557.2	557.2	551.3	553.6	552.7	548.6	545.9
2650.5	37.5°	2341.5	1755.4	743.0	539.6	536.0	535.1	535.5	529.7	513.9	494.9
2874.3	40°	2483.6	1779.8	683.9	527.4	524.7	530.1	527.4	511.6	468.3	435.4
3149.5	42.5°	2674.4	1849.3	646.0	512.5	520.6	527.4	516.6	462.0	432.7	410.5
3463.0	45°	2899.1	1962.1	626.6	496.7	513.0	521.1	468.7	444.8	421.4	394.8
3805.0	47.5°	3153.5	2104.2	622.1	481.8	495.8	500.8	448.4	437.6	411.0	382.1
4148.8	50°	3430.5	2272.4	634.3	464.2	471.0	453.9	441.7	431.8	404.2	375.8
4501.1	52.5°	3717.0	2457.9	658.7	440.3	446.2	427.2	439.0	430.4	400.2	361.8
4865.2	55°	3998.5	2644.6	682.1	412.4	420.9	403.3	431.3	425.0	381.7	338.4
5253.6	57.5°	4284.6	2830.5	705.1	387.5	396.6	380.3	419.1	410.5	360.9	316.7
5677.7	60°	4581.9	3011.0	716.0	363.6	369.9	359.1	400.6	385.7	337.5	294.6
6094.6	62.5°	4860.2	3161.2	698.4	339.7	343.8	339.3	376.3	356.4	314.0	269.8
6529.0	65°	5139.5	3250.5	644.2	316.3	317.2	314.9	342.0	324.8	286.5	248.1
6909.4	67.5°	5392.6	3300.6	558.1	291.0	288.7	287.8	309.9	290.5	259.9	226.5
7198.6	70°	5446.3	3173.4	426.3	261.2	261.2	259.0	274.8	254.9	230.5	203.5
6991.5	72.5°	4974.4	2669.5	302.7	227.4	231.0	226.5	239.6	222.9	200.8	182.7
6025.6	75°	4011.2	1957.5	220.2	192.6	199.0	191.3	203.5	191.7	172.8	172.3
4152.4	77.5°	2756.1	1210.4	159.7	158.8	163.3	153.4	167.4	161.1	143.9	136.2
1807.3	80°	1176.1	482.7	116.4	122.7	122.7	113.7	129.9	131.7	116.8	113.2
348.7	82.5°	234.1	137.1	81.7	84.4	79.4	76.7	92.0	102.0	140.8	156.5
105.1	85°	70.4	50.5	49.2	46.0	40.6	41.1	54.1	102.4	126.3	72.2
34.7	87.5°	19.4	12.6	13.1	10.4	8.6	11.3	18.5	77.6	42.4	18.0
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>
1712.1
1657.5
1512.7
1277.7
1020.1
854.9
747.6
715.5
702.9
674.0
641.1
623.5
614.5
599.1
552.2
495.4
434.5
409.6
393.0
379.9
372.7
359.1
336.1
315.8
293.2
269.3
245.4
223.8
202.6
177.3
155.2
127.7
113.2
157.0
62.3
15.3
0.0

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