

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: P947944

Luminaire Tested: **GALN-SB3A-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947944
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-SB3A-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 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: 8143 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

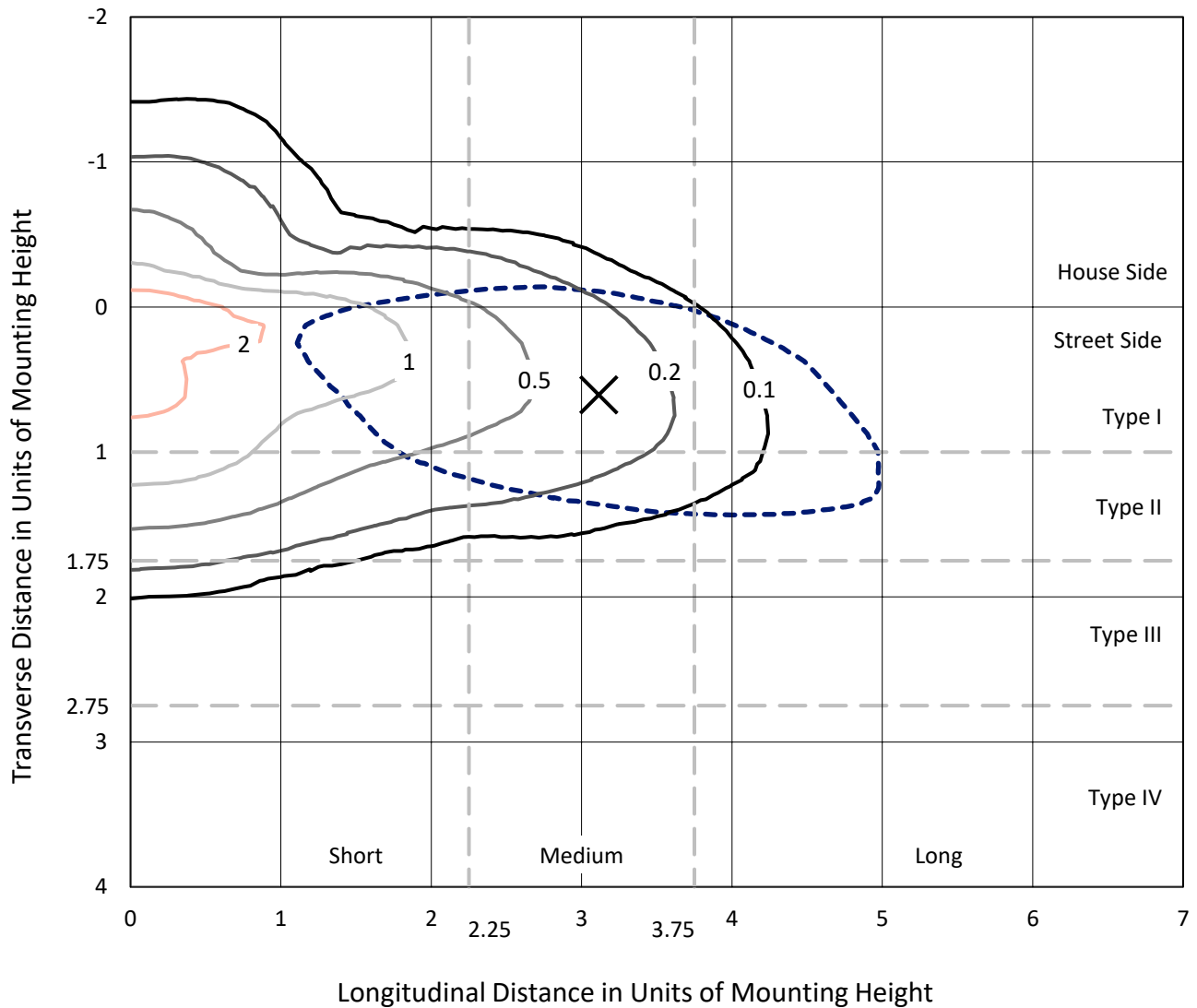
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

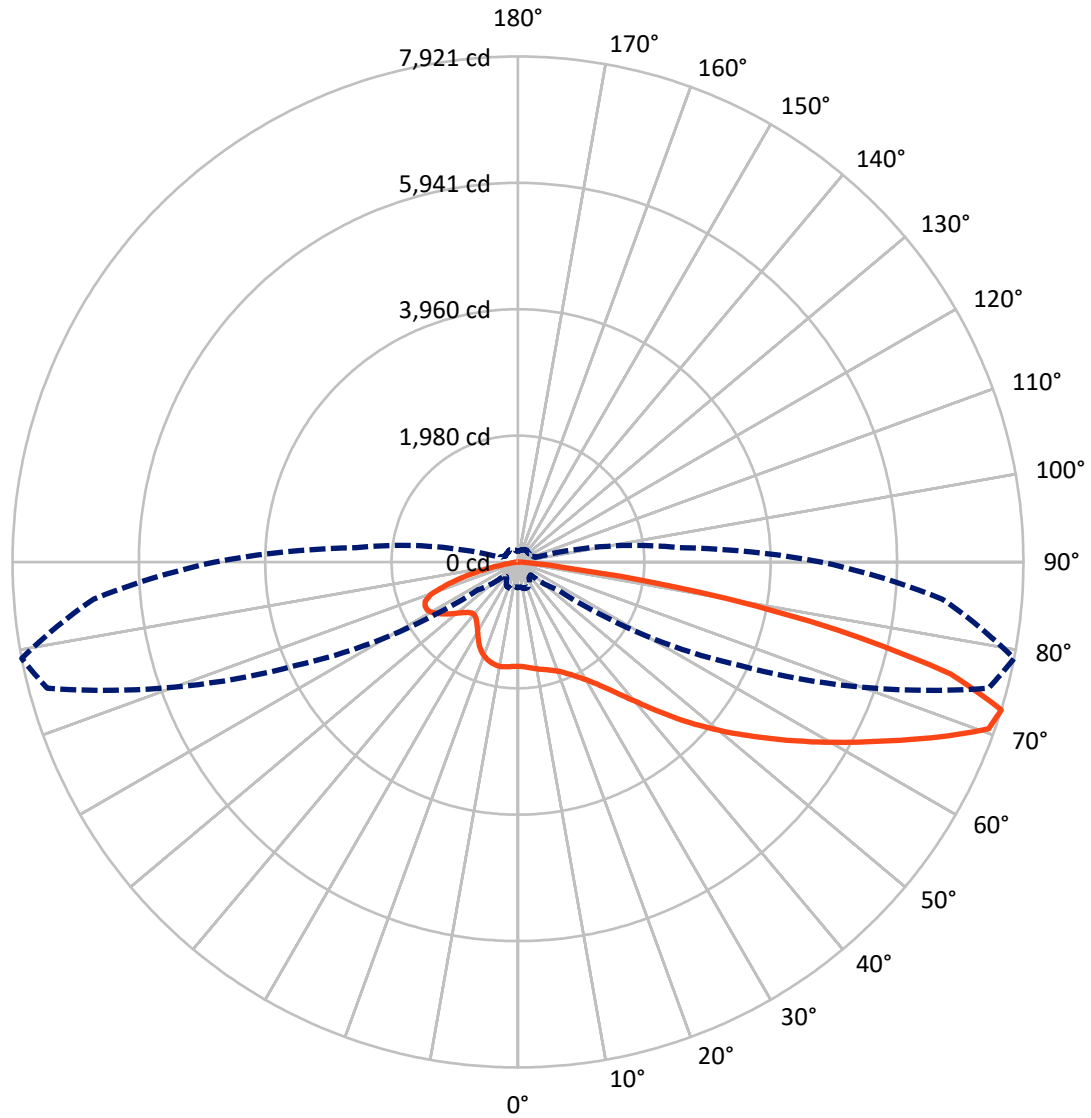
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1791.9	0.0	1791.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6351.1	0.0	6351.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	8143.0	0.0	8143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.8
10°-20°	387.9	4.8
20°-30°	626.0	7.7
30°-40°	939.5	11.5
40°-50°	1332.7	16.4
50°-60°	1683.0	20.7
60°-70°	1709.3	21.0
70°-80°	1165.0	14.3
80°-90°	151.2	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°	8143.0	100.0
0°-180°	8143.0	100.0

Coefficient of Utilization



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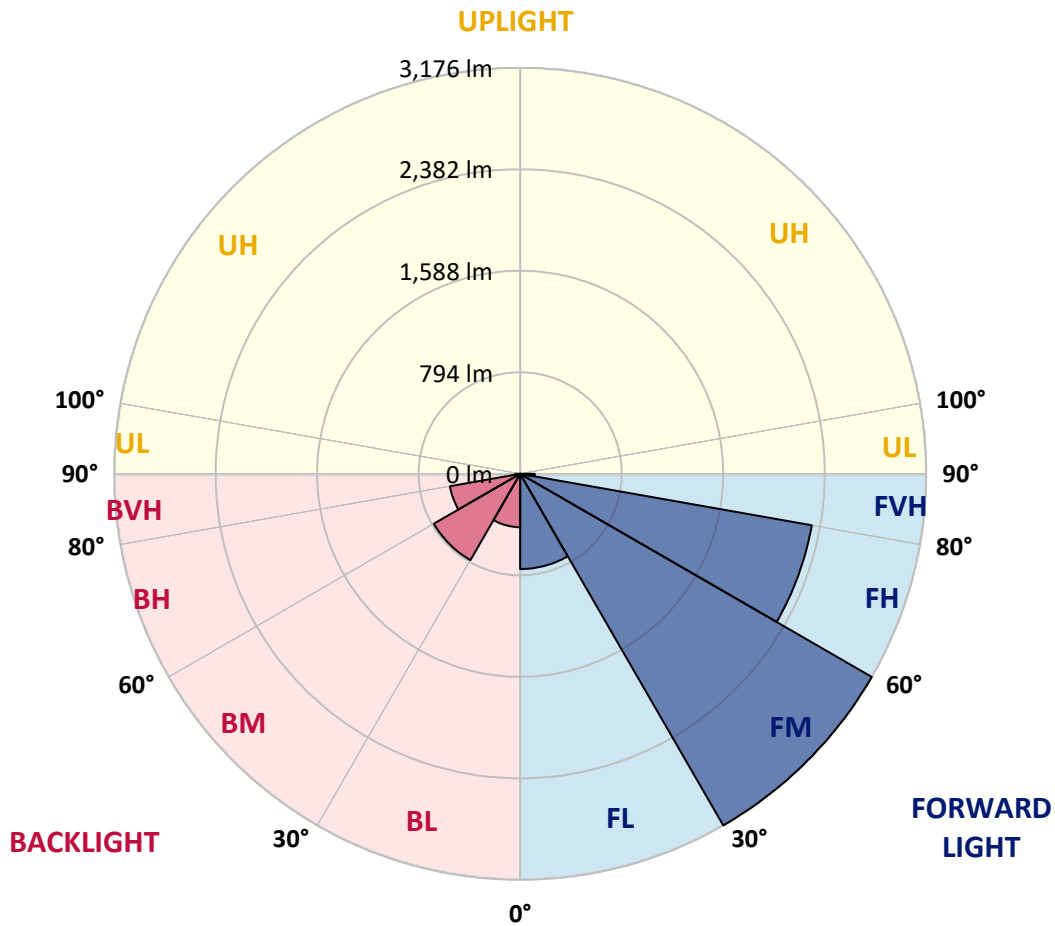
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.9	9.1			
FM (30°-60°)	3175.9	39.0			
FH (60°-80°)	2316.4	28.4			G2/5000
FVH (80°-90°)	113.9	1.4			G2/225
BL (0°-30°)	417.4	5.1	B1/500		
BM (30°-60°)	779.3	9.6	B1/1000		
BH (60°-80°)	557.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	37.3	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°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6
2.5°	1635.5	1627.7	1632.5	1630.8	1632.9	1635.5	1636.4	1637.6	1642.0	1641.5
5°	1632.0	1624.3	1630.8	1628.6	1634.2	1640.2	1645.4	1650.1	1657.0	1660.0
7.5°	1624.7	1619.6	1626.0	1632.5	1642.8	1651.9	1659.2	1669.9	1679.9	1681.6
10°	1582.1	1578.2	1593.3	1610.1	1638.5	1663.1	1679.0	1691.5	1702.3	1704.0
12.5°	1537.7	1533.0	1549.8	1572.6	1618.7	1663.1	1696.7	1713.0	1722.5	1728.1
15°	1530.4	1526.5	1536.0	1555.8	1594.1	1651.4	1708.7	1738.9	1747.1	1753.5
17.5°	1565.7	1558.4	1562.3	1569.2	1591.6	1640.7	1718.2	1768.2	1780.6	1787.5
20°	1647.6	1637.2	1631.2	1617.4	1613.5	1642.4	1717.3	1803.5	1819.8	1828.5
22.5°	1756.5	1749.6	1736.7	1701.8	1663.9	1663.5	1733.7	1848.7	1879.3	1887.5
25°	1888.3	1878.0	1861.6	1814.2	1741.5	1705.3	1761.3	1906.4	1957.7	1959.8
27.5°	2039.9	2024.4	2002.0	1939.6	1841.4	1770.7	1803.5	1972.8	2047.7	2046.8
30°	2199.8	2184.2	2160.6	2084.7	1961.1	1859.0	1862.1	2044.3	2154.5	2149.8
32.5°	2316.5	2304.8	2300.1	2241.5	2099.0	1963.3	1929.3	2123.5	2286.3	2282.0
35°	2406.1	2391.0	2396.6	2366.9	2249.3	2080.0	2011.5	2217.8	2446.6	2446.1
37.5°	2494.8	2481.4	2486.2	2466.4	2388.4	2228.2	2111.9	2333.3	2645.1	2654.6
40°	2575.8	2561.6	2580.5	2562.0	2496.5	2385.8	2226.0	2463.8	2875.1	2893.2
42.5°	2624.5	2613.3	2644.7	2645.1	2590.4	2518.9	2351.4	2607.7	3141.3	3181.8
45°	2641.3	2637.4	2684.8	2694.7	2673.6	2596.0	2464.2	2764.4	3428.2	3500.6
47.5°	2623.2	2615.8	2681.3	2717.9	2734.7	2632.2	2557.7	2934.1	3721.1	3827.1
50°	2531.8	2517.6	2615.0	2692.1	2751.9	2655.9	2652.0	3130.1	4054.1	4169.9
52.5°	2367.7	2357.0	2467.7	2601.6	2714.0	2667.5	2758.0	3344.2	4370.2	4520.1
55°	2158.0	2143.8	2265.7	2440.5	2619.7	2663.6	2863.9	3583.7	4743.2	4895.3
57.5°	1825.4	1797.0	1951.2	2158.0	2465.9	2658.9	2974.2	3821.9	5122.3	5304.5
60°	1340.4	1298.2	1487.3	1732.4	2165.3	2612.8	3110.8	4088.9	5577.1	5741.2
62.5°	780.5	755.9	879.6	1108.3	1632.0	2341.5	3187.4	4399.5	6024.2	6196.5
65°	606.0	599.1	609.9	627.6	908.4	1753.1	2950.9	4702.3	6592.8	6713.4
67.5°	554.4	549.2	553.9	520.8	460.9	976.5	2334.6	4779.0	7201.8	7275.1
70°	492.8	486.7	502.2	473.8	362.7	444.1	1508.4	4500.7	7686.4	7823.8
72.5°	401.4	394.6	430.7	417.8	305.4	285.1	757.7	3839.5	7635.6	7920.7
75°	308.4	304.5	347.6	358.4	249.0	224.4	363.5	2854.0	6719.4	7006.7
77.5°	239.5	236.5	258.4	297.6	200.7	174.0	223.6	1810.4	5063.7	5114.1
80°	179.6	171.0	191.2	230.4	156.4	127.1	151.6	1055.7	3200.8	2901.4
82.5°	112.4	108.1	124.9	153.8	110.3	87.4	98.6	583.2	1282.7	755.5
85°	64.2	62.5	68.1	87.9	59.9	50.4	56.4	257.6	234.3	161.1
87.5°	25.8	25.0	31.0	39.2	22.0	18.5	19.8	62.0	51.7	47.8
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°
1634.6	0°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6
1641.1	2.5°	1639.4	1639.4	1633.3	1623.9	1613.1	1606.2	1595.0	1592.0	1580.4	1576.9
1655.7	5°	1659.2	1655.7	1637.2	1610.5	1573.9	1540.3	1503.3	1480.0	1447.3	1435.6
1684.6	7.5°	1684.2	1674.7	1642.8	1584.2	1507.6	1432.2	1353.8	1294.4	1237.5	1217.3
1708.3	10°	1707.0	1693.6	1639.4	1536.9	1404.2	1273.7	1148.8	1061.3	995.0	967.9
1734.6	12.5°	1729.8	1705.3	1616.5	1458.0	1257.3	1080.3	947.2	879.1	838.2	805.5
1756.1	15°	1751.4	1716.9	1581.2	1352.5	1096.2	916.6	818.4	764.1	731.4	709.8
1787.5	17.5°	1776.3	1726.8	1528.2	1218.5	942.9	803.3	723.2	690.5	684.0	681.4
1830.6	20°	1811.2	1735.9	1458.5	1068.6	830.0	712.9	671.5	668.5	668.1	666.8
1882.3	22.5°	1848.7	1746.6	1366.3	932.5	734.0	656.4	649.1	643.1	639.2	638.8
1944.8	25°	1893.1	1750.1	1250.8	821.0	652.1	629.7	621.1	612.1	609.5	609.5
2015.8	27.5°	1936.1	1738.4	1116.5	724.1	606.0	605.2	594.0	591.0	590.5	591.8
2096.8	30°	1979.2	1716.5	982.9	634.5	579.3	579.3	575.5	577.6	579.3	583.6
2207.9	32.5°	2037.4	1693.2	871.4	568.1	556.1	551.8	555.6	560.0	561.7	567.3
2354.0	35°	2122.6	1676.8	782.6	532.0	532.0	526.4	528.5	527.6	523.8	521.2
2530.6	37.5°	2235.5	1676.0	709.4	515.2	511.7	510.8	511.3	505.7	490.6	472.5
2744.2	40°	2371.2	1699.2	653.0	503.5	500.9	506.1	503.5	488.5	447.1	415.7
3006.9	42.5°	2553.4	1765.6	616.8	489.3	497.1	503.5	493.2	441.1	413.1	392.0
3306.3	45°	2767.9	1873.3	598.3	474.2	489.7	497.5	447.5	424.7	402.3	376.9
3632.8	47.5°	3010.8	2008.9	594.0	460.0	473.4	478.1	428.1	417.8	392.4	364.8
3961.0	50°	3275.3	2169.6	605.6	443.2	449.7	433.3	421.7	412.2	385.9	358.8
4297.4	52.5°	3548.8	2346.6	628.9	420.4	426.0	407.9	419.1	410.9	382.1	345.4
4645.0	55°	3817.6	2525.0	651.3	393.7	401.9	385.1	411.8	405.8	364.4	323.0
5015.9	57.5°	4090.7	2702.4	673.2	370.0	378.6	363.1	400.2	392.0	344.6	302.4
5420.8	60°	4374.5	2874.7	683.6	347.2	353.2	342.9	382.5	368.3	322.2	281.3
5818.8	62.5°	4640.3	3018.1	666.8	324.3	328.2	323.9	359.2	340.3	299.8	257.6
6233.6	65°	4906.9	3103.4	615.1	301.9	302.8	300.7	326.5	310.1	273.5	236.9
6596.7	67.5°	5148.5	3151.2	532.8	277.8	275.7	274.8	295.9	277.4	248.1	216.2
6872.8	70°	5199.8	3029.8	407.0	249.4	249.4	247.2	262.3	243.4	220.1	194.3
6675.1	72.5°	4749.3	2548.6	289.0	217.1	220.5	216.2	228.7	212.8	191.7	174.4
5752.9	75°	3829.6	1868.9	210.2	183.9	190.0	182.6	194.3	183.1	165.0	164.5
3964.5	77.5°	2631.3	1155.7	152.5	151.6	155.9	146.4	159.8	153.8	137.4	130.1
1725.5	80°	1122.9	460.9	111.1	117.2	117.2	108.5	124.1	125.8	111.6	108.1
333.0	82.5°	223.6	130.9	78.0	80.5	75.8	73.2	87.9	97.3	134.4	149.5
100.4	85°	67.2	48.2	46.9	43.9	38.8	39.2	51.7	97.8	120.6	68.9
33.2	87.5°	18.5	12.1	12.5	9.9	8.2	10.8	17.7	74.1	40.5	17.2
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>
1634.6
1582.5
1444.2
1219.8
973.9
816.2
713.7
683.1
671.1
643.5
612.1
595.3
586.7
572.0
527.2
472.9
414.8
391.1
375.2
362.7
355.8
342.9
320.9
301.5
280.0
257.1
234.3
213.6
193.4
169.3
148.2
121.9
108.1
149.9
59.4
14.6
0.0

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