

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: P946938

Luminaire Tested: **GALN-SB2B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7975 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

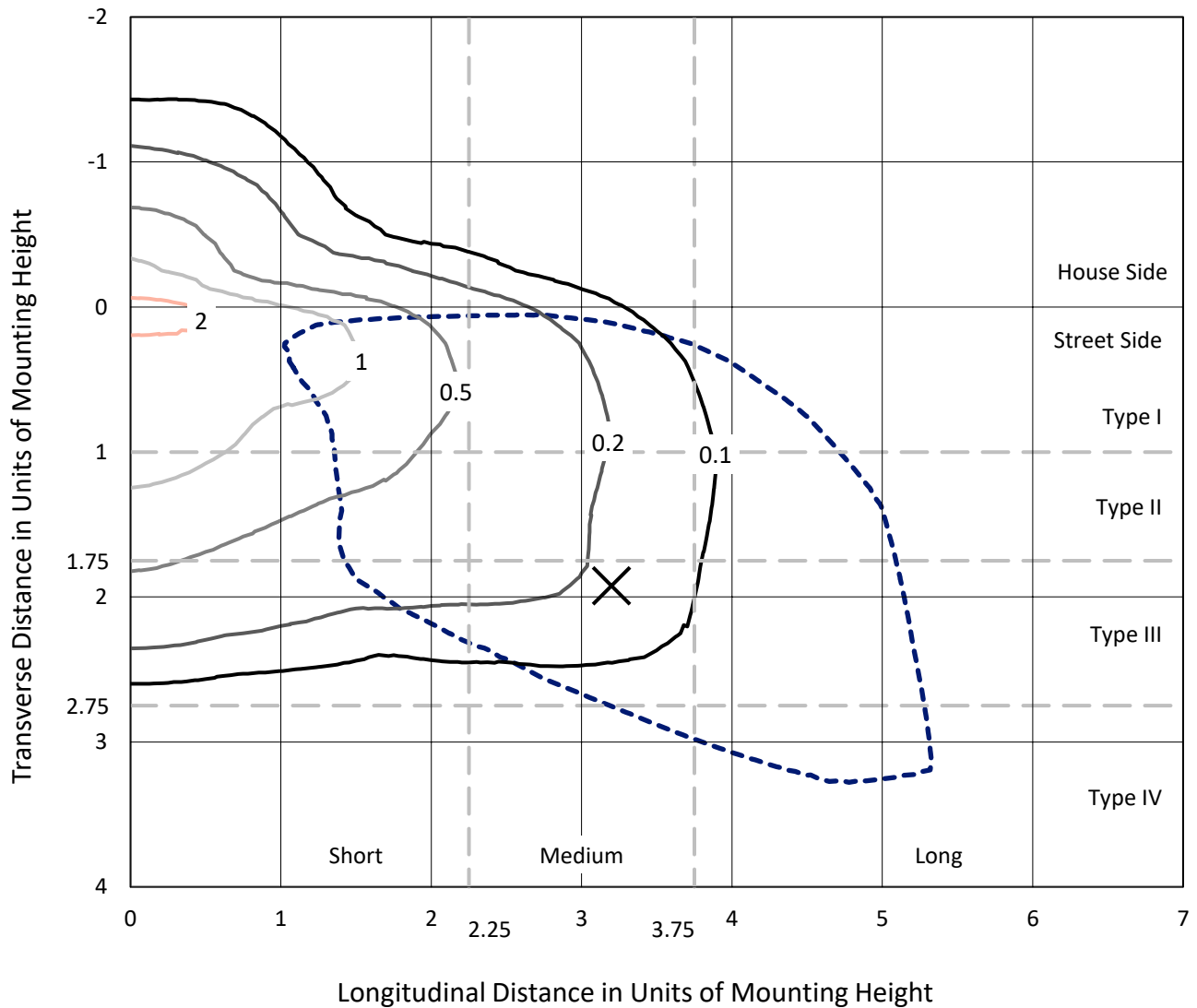
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

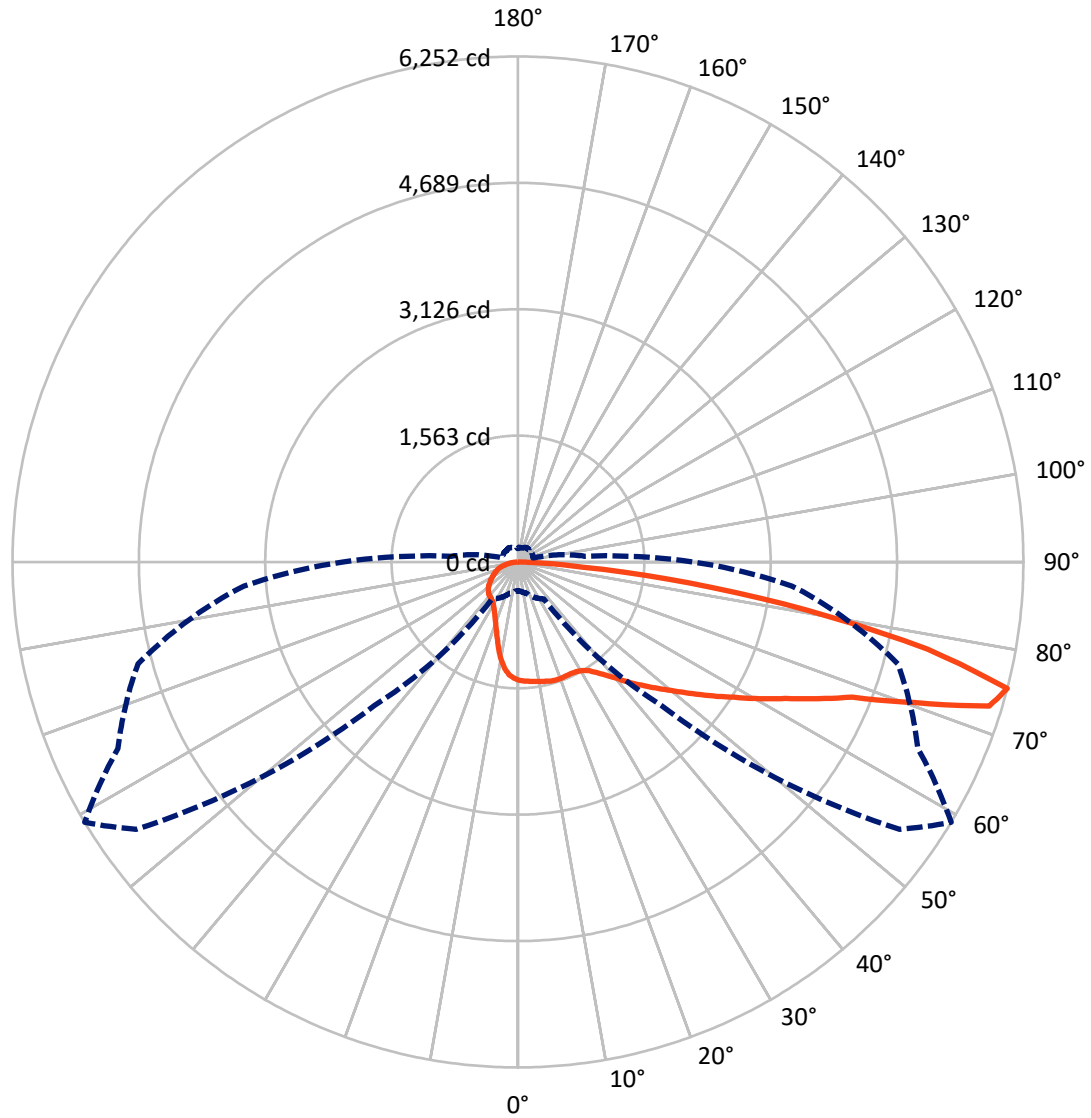
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.8	0.0	1495.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6479.2	0.0	6479.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	7975.0	0.0	7975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.6
10°-20°	335.5	4.2
20°-30°	509.6	6.4
30°-40°	757.5	9.5
40°-50°	1126.5	14.1
50°-60°	1529.1	19.2
60°-70°	1866.8	23.4
70°-80°	1465.0	18.4
80°-90°	253.8	3.2
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°	7975.0	100.0
0°-180°	7975.0	100.0

Coefficient of Utilization



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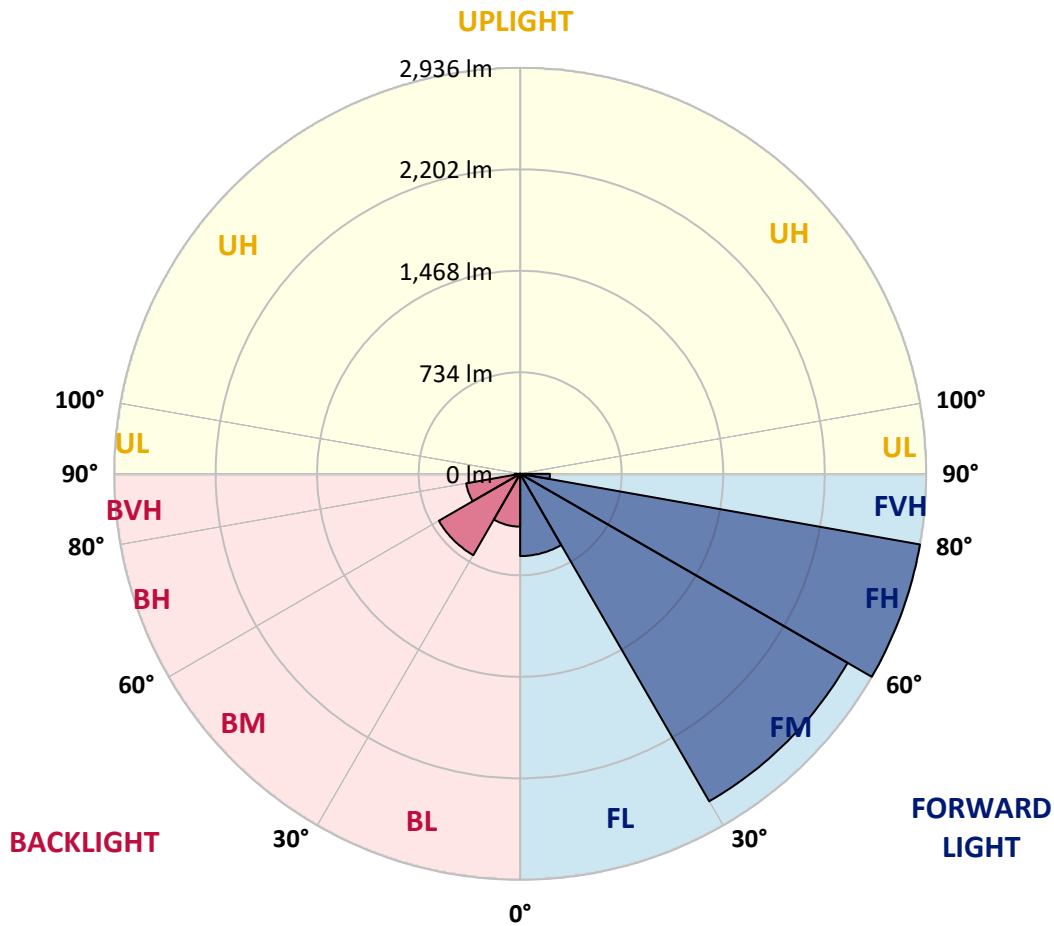
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.6	7.5			
FM (30°-60°)	2734.2	34.3			
FH (60°-80°)	2935.5	36.8			G2/5000
FVH (80°-90°)	214.9	2.7			G2/225
BL (0°-30°)	381.7	4.8	B1/500		
BM (30°-60°)	678.9	8.5	B1/1000		
BH (60°-80°)	396.3	5.0	B1/500		G1/500
BVH (80°-90°)	38.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
2.5°	1476.2	1471.1	1476.2	1474.1	1473.2	1471.5	1471.9	1474.9	1473.2	1475.4
5°	1466.4	1463.4	1468.5	1467.2	1472.8	1473.7	1479.2	1482.7	1484.8	1485.2
7.5°	1450.1	1447.1	1454.4	1460.4	1472.4	1475.8	1487.4	1493.0	1496.0	1501.1
10°	1390.4	1389.1	1407.2	1429.9	1458.2	1475.8	1493.4	1502.8	1507.6	1521.3
12.5°	1284.9	1286.6	1310.2	1354.0	1410.6	1467.2	1500.3	1514.0	1521.3	1538.4
15°	1184.1	1183.6	1209.4	1256.2	1335.5	1429.5	1503.7	1527.3	1539.7	1565.0
17.5°	1125.7	1124.0	1142.0	1177.6	1251.4	1371.6	1495.1	1534.6	1561.2	1592.9
20°	1115.0	1111.6	1121.0	1138.6	1190.9	1308.1	1472.8	1534.6	1578.3	1619.5
22.5°	1154.0	1148.5	1144.6	1142.5	1165.6	1255.7	1447.5	1529.4	1603.7	1657.7
25°	1232.6	1224.0	1204.2	1184.9	1178.1	1232.1	1425.2	1528.1	1641.4	1709.2
27.5°	1359.5	1348.8	1308.9	1262.6	1221.0	1244.1	1415.3	1535.9	1683.0	1763.7
30°	1517.0	1505.4	1455.2	1384.0	1309.3	1288.8	1427.8	1558.6	1736.2	1836.2
32.5°	1658.1	1645.3	1602.4	1529.9	1429.0	1366.0	1467.2	1601.9	1819.9	1937.0
35°	1783.4	1768.4	1729.8	1662.9	1575.8	1474.5	1538.4	1678.7	1938.7	2100.9
37.5°	1906.1	1888.5	1846.5	1775.7	1714.8	1619.1	1636.7	1777.4	2096.6	2299.9
40°	2043.4	2018.1	1967.0	1897.1	1837.9	1788.6	1765.8	1898.4	2257.0	2522.2
42.5°	2176.4	2152.4	2091.4	2031.8	1957.6	1943.4	1915.5	2040.0	2432.5	2766.3
45°	2319.7	2290.9	2217.1	2141.6	2094.9	2046.4	2060.6	2181.5	2604.5	3015.1
47.5°	2454.0	2421.8	2334.7	2250.6	2224.9	2133.1	2193.5	2337.3	2783.4	3267.4
50°	2526.5	2494.7	2422.2	2346.3	2326.1	2239.9	2337.7	2508.4	2970.9	3518.8
52.5°	2587.0	2552.6	2457.8	2415.8	2409.8	2356.1	2515.3	2704.1	3158.4	3741.0
55°	2651.3	2613.1	2492.1	2454.4	2481.8	2486.6	2726.0	2925.9	3356.6	3957.6
57.5°	2725.5	2677.0	2525.2	2487.0	2552.2	2639.3	2967.9	3155.8	3551.4	4158.4
60°	2795.5	2746.5	2588.7	2538.9	2628.1	2816.5	3245.5	3434.3	3771.9	4337.3
62.5°	2809.2	2768.9	2639.3	2638.9	2731.1	3023.3	3574.1	3715.3	3964.5	4514.1
65°	2571.5	2546.2	2469.4	2635.0	2878.7	3321.0	3940.1	4074.8	4209.5	4668.5
67.5°	1957.2	1960.6	1955.0	2274.6	2759.4	3748.7	4469.9	4459.6	4511.9	4841.8
70°	894.9	915.1	1046.4	1570.2	2210.7	3798.1	5345.9	5212.5	4891.6	5066.2
72.5°	483.5	498.9	552.6	760.6	1329.1	3376.8	6000.6	6095.4	5396.6	5217.2
75°	354.8	363.4	400.7	483.5	558.1	2509.7	5765.9	6252.4	5459.6	4865.0
77.5°	265.6	269.4	299.9	383.1	285.7	1323.1	4607.2	5178.2	4673.7	3997.1
80°	192.6	196.9	219.7	287.4	200.3	483.9	3163.5	3634.6	3200.9	2547.9
82.5°	133.0	134.7	144.6	195.6	139.9	187.9	1795.0	2131.3	1786.8	894.1
85°	80.2	82.4	86.7	114.1	79.4	89.2	774.8	801.4	534.1	213.6
87.5°	33.0	35.2	38.6	48.0	31.3	24.9	127.8	160.5	100.0	62.6
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°
1463.8	0°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
1468.1	2.5°	1465.9	1462.9	1454.8	1443.6	1433.3	1420.5	1414.9	1410.2	1405.9	1397.7
1479.7	5°	1474.9	1466.8	1444.9	1416.6	1384.4	1349.2	1314.9	1291.3	1271.2	1256.2
1493.0	7.5°	1488.7	1473.2	1433.3	1375.4	1301.6	1226.1	1157.9	1109.4	1073.0	1059.7
1511.8	10°	1502.8	1484.4	1414.9	1312.8	1185.4	1069.1	978.6	928.8	899.6	890.2
1534.2	12.5°	1519.6	1492.5	1386.1	1225.7	1055.4	928.0	849.0	819.8	804.8	799.7
1561.6	15°	1544.0	1499.4	1342.8	1116.7	931.4	825.0	773.9	753.8	746.1	745.6
1589.9	17.5°	1562.5	1500.7	1275.5	1000.0	836.1	762.8	720.7	713.0	718.2	725.9
1617.8	20°	1583.1	1489.1	1187.1	893.6	769.2	708.3	690.7	695.9	708.3	719.5
1654.7	22.5°	1597.6	1468.1	1080.3	810.8	711.3	677.0	676.1	686.9	693.7	699.3
1698.0	25°	1610.5	1432.5	967.0	741.3	663.7	658.1	667.5	664.1	659.4	664.1
1741.4	27.5°	1620.0	1376.3	865.7	680.4	630.2	645.2	639.7	631.9	631.5	634.1
1792.4	30°	1617.0	1301.2	782.5	622.5	606.6	621.2	607.9	606.6	605.3	606.6
1869.2	32.5°	1617.0	1215.8	718.6	582.6	591.6	586.0	584.7	581.7	576.6	576.2
1973.5	35°	1626.0	1130.5	663.7	561.1	579.2	565.9	566.7	559.4	548.7	543.6
2111.6	37.5°	1644.4	1061.8	609.2	550.9	557.3	556.9	553.4	541.0	522.1	505.8
2284.1	40°	1689.0	1041.6	571.9	546.1	547.0	552.1	543.1	519.1	476.2	449.6
2459.1	42.5°	1759.0	1075.5	563.7	534.6	540.1	545.3	527.7	471.9	441.5	425.6
2642.7	45°	1847.8	1134.7	581.3	517.8	523.8	532.8	480.5	453.9	440.2	440.6
2824.6	47.5°	1960.2	1196.9	613.9	503.2	500.2	505.4	449.2	432.9	414.0	418.7
2999.2	50°	2090.2	1260.0	644.8	483.5	474.1	457.3	429.0	413.6	389.5	378.4
3167.8	52.5°	2230.9	1320.9	657.2	459.5	445.7	426.4	415.3	396.4	367.2	348.8
3327.0	55°	2364.3	1376.3	643.5	430.7	417.4	402.4	400.7	389.1	357.8	332.1
3468.6	57.5°	2490.4	1422.6	609.2	401.6	388.7	379.7	391.3	385.7	346.2	313.2
3602.4	60°	2597.2	1454.4	559.4	372.0	362.9	358.2	375.8	374.1	329.9	293.0
3722.5	62.5°	2682.2	1466.8	504.5	343.6	341.5	332.9	354.4	354.4	309.3	273.3
3828.1	65°	2748.7	1454.8	448.7	315.8	320.0	307.2	328.2	325.6	287.4	255.7
3949.5	67.5°	2807.5	1415.3	387.0	288.3	298.2	281.9	300.7	294.7	263.4	238.1
4054.6	70°	2833.6	1323.5	316.6	260.8	272.9	257.0	273.3	262.1	236.4	219.2
3939.2	72.5°	2623.4	1100.0	249.3	232.1	242.4	229.5	243.7	230.8	207.2	199.5
3401.6	75°	2170.4	825.4	191.8	200.8	208.5	198.6	208.1	198.6	177.2	182.8
2512.7	77.5°	1576.2	557.3	146.7	167.7	171.2	166.0	174.2	163.5	144.1	142.9
1252.3	80°	783.8	326.5	115.0	132.6	131.3	127.8	137.3	132.1	115.8	122.7
338.1	82.5°	226.9	139.9	83.7	93.1	90.5	91.4	98.2	100.8	151.0	149.7
105.1	85°	71.2	54.9	50.2	51.9	49.3	50.6	57.9	115.0	106.4	62.2
32.6	87.5°	18.4	18.9	12.4	13.3	13.7	16.3	18.4	69.9	33.5	21.9
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>
1463.8
1393.9
1243.7
1036.5
875.6
801.0
747.3
728.9
723.3
702.3
667.1
638.4
611.3
581.7
548.7
511.4
453.0
425.6
442.7
430.7
381.4
348.4
332.1
311.5
291.7
272.0
254.0
236.4
215.8
193.1
166.9
136.4
121.4
153.2
67.4
23.2
0.0

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