

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: P946959

Luminaire Tested: **GALN-SB2B-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946959
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-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 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: 7656 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

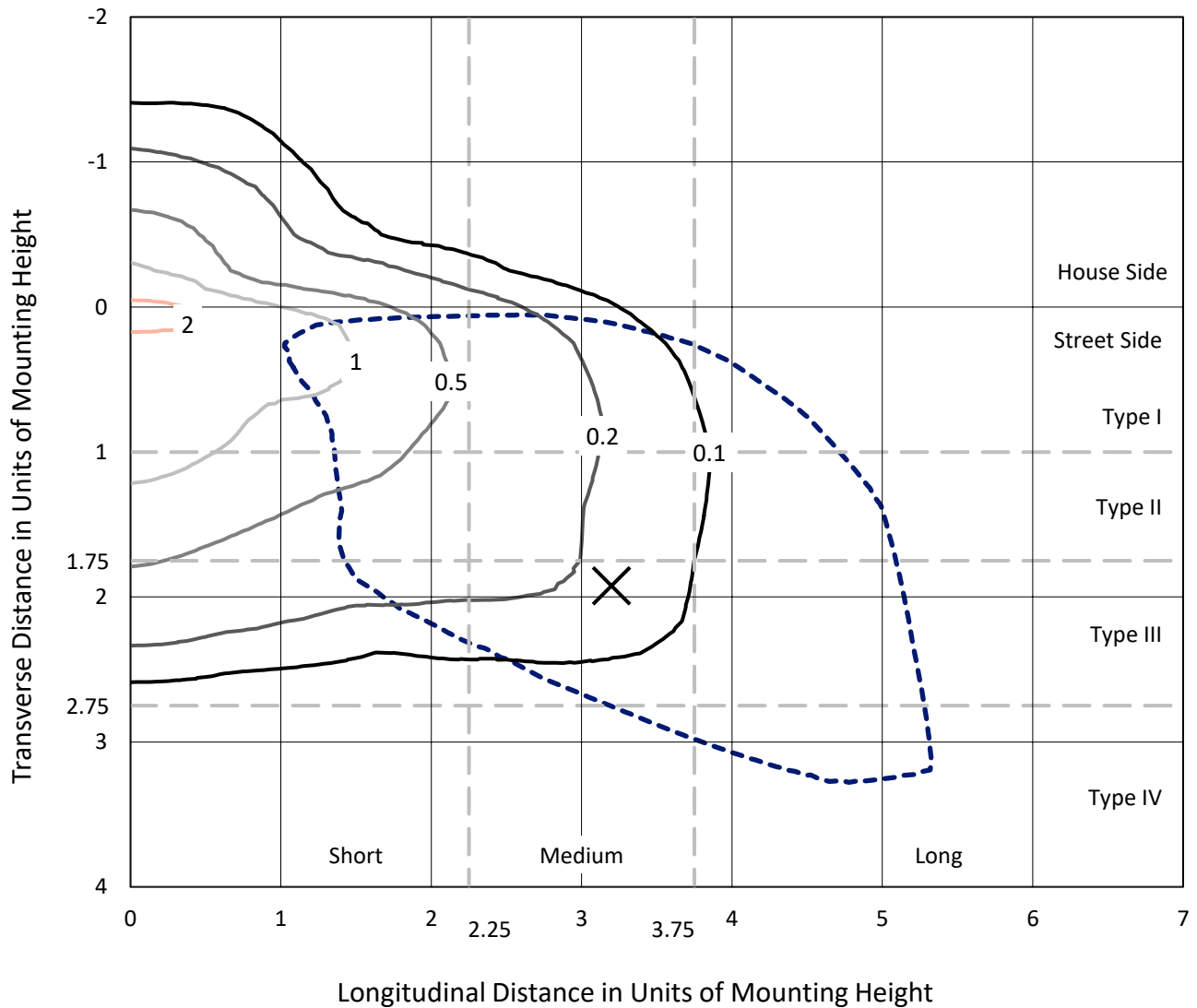
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

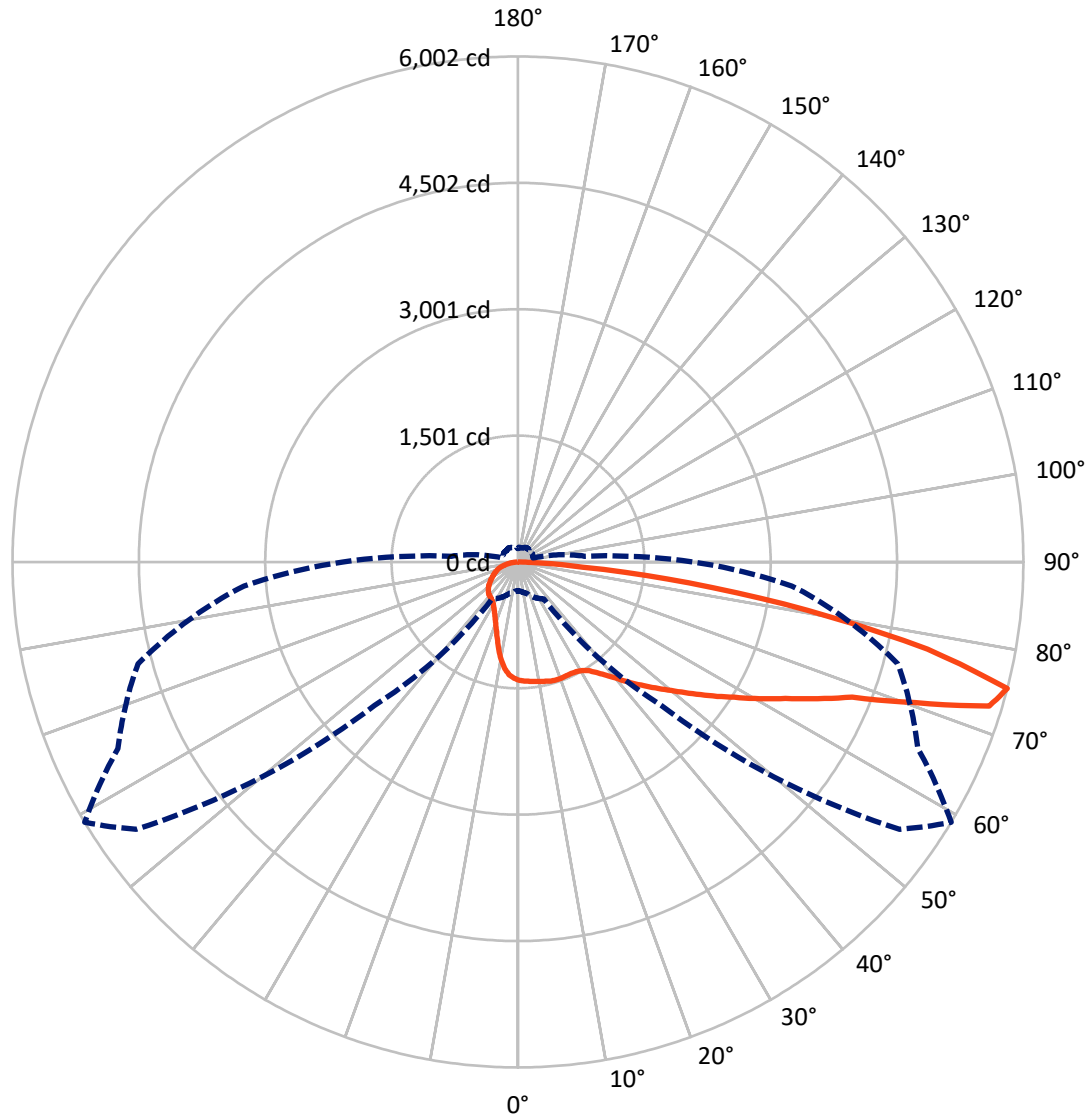
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1435.9	0.0	1435.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6220.1	0.0	6220.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	7656.0	0.0	7656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.6
10°-20°	322.1	4.2
20°-30°	489.2	6.4
30°-40°	727.2	9.5
40°-50°	1081.5	14.1
50°-60°	1467.9	19.2
60°-70°	1792.1	23.4
70°-80°	1406.4	18.4
80°-90°	243.6	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°	7656.0	100.0
0°-180°	7656.0	100.0

Coefficient of Utilization



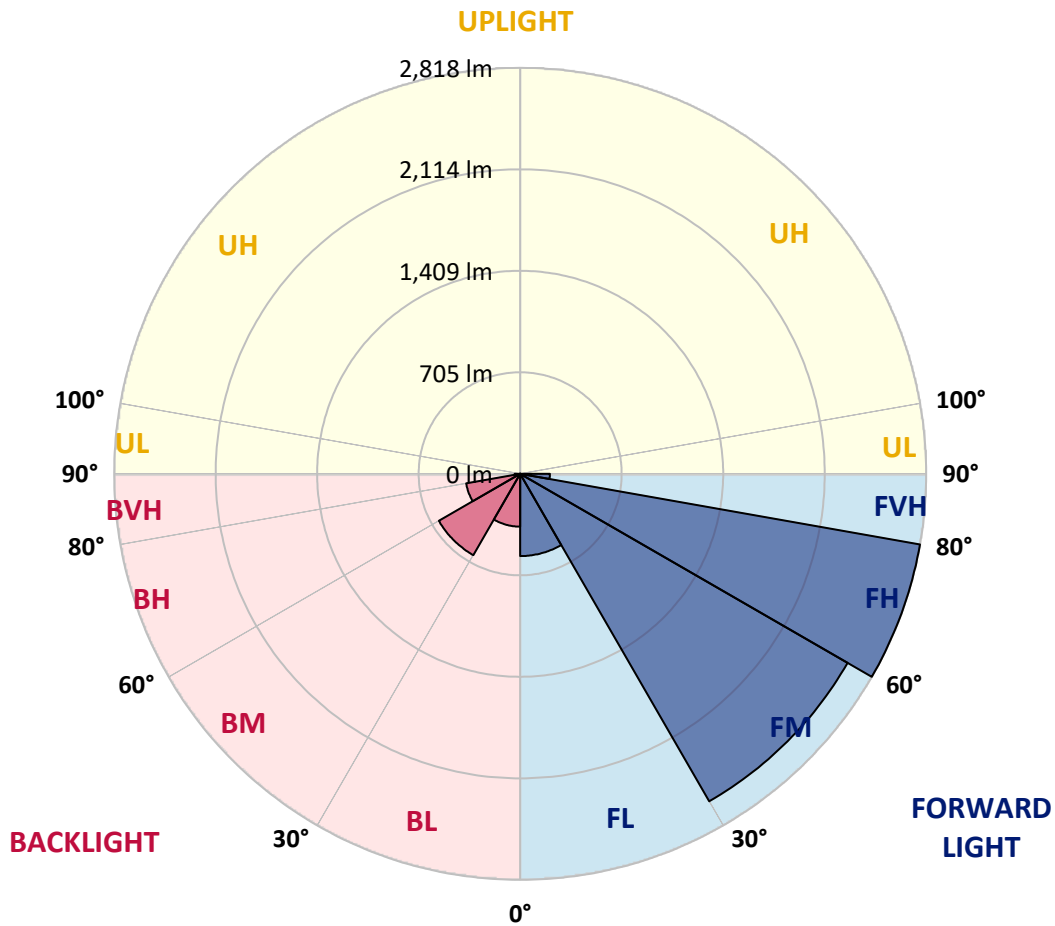
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.8	7.5			
FM	(30°-60°)	2624.8	34.3			
FH	(60°-80°)	2818.1	36.8			G2/5000
FVH	(80°-90°)	206.3	2.7			G2/225
BL	(0°-30°)	366.4	4.8	B1/500		
BM	(30°-60°)	651.8	8.5	B1/1000		
BH	(60°-80°)	380.4	5.0	B1/500		G1/500
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: B1-U0-G2

Type IV Medium



REPORT NUMBER: P946959

CATALOG NUMBER: GALN-SB2B-950-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2
2.5°	1417.2	1412.2	1417.2	1415.1	1414.3	1412.7	1413.1	1415.9	1414.3	1416.4
5°	1407.7	1404.8	1409.8	1408.5	1413.9	1414.7	1420.1	1423.4	1425.4	1425.8
7.5°	1392.1	1389.2	1396.2	1401.9	1413.5	1416.8	1427.9	1433.2	1436.1	1441.1
10°	1334.8	1333.6	1350.9	1372.7	1399.9	1416.8	1433.7	1442.7	1447.3	1460.4
12.5°	1233.5	1235.1	1257.8	1299.8	1354.2	1408.5	1440.2	1453.4	1460.4	1476.9
15°	1136.7	1136.3	1161.0	1205.9	1282.1	1372.3	1443.5	1466.2	1478.1	1502.4
17.5°	1080.7	1079.1	1096.4	1130.5	1201.4	1316.7	1435.3	1473.2	1498.7	1529.2
20°	1070.4	1067.1	1076.2	1093.1	1143.3	1255.7	1413.9	1473.2	1515.2	1554.7
22.5°	1107.9	1102.5	1098.8	1096.8	1119.0	1205.5	1389.6	1468.3	1539.5	1591.4
25°	1183.3	1175.0	1156.1	1137.5	1130.9	1182.8	1368.2	1467.0	1575.7	1640.8
27.5°	1305.2	1294.9	1256.6	1212.1	1172.1	1194.4	1358.7	1474.4	1615.7	1693.1
30°	1456.3	1445.2	1397.0	1328.6	1257.0	1237.2	1370.6	1496.3	1666.8	1762.7
32.5°	1591.8	1579.5	1538.3	1468.7	1371.9	1311.3	1408.5	1537.9	1747.1	1859.5
35°	1712.1	1697.7	1660.6	1596.3	1512.7	1415.5	1476.9	1611.6	1861.2	2016.8
37.5°	1829.9	1813.0	1772.6	1704.7	1646.2	1554.3	1571.2	1706.3	2012.7	2207.9
40°	1961.7	1937.4	1888.3	1821.2	1764.4	1717.0	1695.2	1822.4	2166.8	2421.3
42.5°	2089.3	2066.3	2007.8	1950.5	1879.3	1865.7	1838.9	1958.4	2335.2	2655.6
45°	2226.9	2199.3	2128.5	2056.0	2011.1	1964.5	1978.1	2094.3	2500.4	2894.5
47.5°	2355.8	2324.9	2241.3	2160.6	2135.9	2047.7	2105.8	2243.8	2672.1	3136.7
50°	2425.4	2394.9	2325.3	2252.4	2233.1	2150.3	2244.2	2408.1	2852.1	3378.0
52.5°	2483.5	2450.5	2359.5	2319.1	2313.4	2261.9	2414.7	2595.9	3032.1	3591.4
55°	2545.3	2508.6	2392.5	2356.2	2382.6	2387.1	2616.9	2808.8	3222.3	3799.3
57.5°	2616.5	2570.0	2424.2	2387.5	2450.1	2533.7	2849.2	3029.6	3409.3	3992.1
60°	2683.6	2636.7	2485.1	2437.3	2523.0	2703.8	3115.7	3296.9	3621.0	4163.8
62.5°	2696.8	2658.1	2533.7	2533.3	2621.9	2902.3	3431.1	3566.6	3805.9	4333.5
65°	2468.6	2444.3	2370.6	2529.6	2763.5	3188.2	3782.5	3911.8	4041.1	4481.8
67.5°	1878.9	1882.2	1876.8	2183.6	2649.0	3598.8	4291.1	4281.2	4331.5	4648.2
70°	859.1	878.5	1004.5	1507.4	2122.3	3646.1	5132.1	5004.0	4695.9	4863.6
72.5°	464.2	479.0	530.5	730.2	1275.9	3241.7	5760.6	5851.6	5180.7	5008.5
75°	340.6	348.8	384.7	464.2	535.8	2409.3	5535.3	6002.3	5241.2	4670.4
77.5°	254.9	258.6	287.9	367.8	274.3	1270.2	4422.9	4971.1	4486.7	3837.2
80°	184.9	189.0	210.9	275.9	192.3	464.6	3037.0	3489.2	3072.8	2446.0
82.5°	127.7	129.3	138.8	187.8	134.3	180.4	1723.2	2046.1	1715.4	858.3
85°	77.0	79.1	83.2	109.6	76.2	85.7	743.8	769.3	512.8	205.1
87.5°	31.7	33.8	37.1	46.1	30.1	23.9	122.7	154.0	96.0	60.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946959
 CATALOG NUMBER: GALN-SB2B-950-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1405.2	0°	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2	1405.2
1409.4	2.5°	1407.3	1404.4	1396.6	1385.9	1376.0	1363.6	1358.3	1353.8	1349.6	1341.8
1420.5	5°	1415.9	1408.1	1387.1	1359.9	1329.0	1295.3	1262.3	1239.7	1220.3	1205.9
1433.2	7.5°	1429.1	1414.3	1376.0	1320.4	1249.6	1177.1	1111.6	1065.1	1030.0	1017.3
1451.4	10°	1442.7	1425.0	1358.3	1260.3	1137.9	1026.3	939.4	891.7	863.7	854.6
1472.8	12.5°	1458.8	1432.8	1330.7	1176.7	1013.2	890.8	815.1	787.1	772.6	767.7
1499.1	15°	1482.3	1439.4	1289.1	1072.1	894.1	792.0	743.0	723.6	716.2	715.8
1526.3	17.5°	1500.0	1440.7	1224.4	960.0	802.7	732.3	691.9	684.5	689.4	696.9
1553.1	20°	1519.7	1429.5	1139.6	857.9	738.5	680.0	663.1	668.0	680.0	690.7
1588.5	22.5°	1533.7	1409.4	1037.0	778.4	682.9	649.9	649.1	659.4	666.0	671.3
1630.1	25°	1546.1	1375.2	928.3	711.7	637.1	631.8	640.8	637.5	633.0	637.5
1671.7	27.5°	1555.2	1321.2	831.1	653.2	605.0	619.4	614.1	606.7	606.2	608.7
1720.7	30°	1552.3	1249.1	751.2	597.6	582.4	596.4	583.6	582.4	581.1	582.4
1794.4	32.5°	1552.3	1167.2	689.9	559.3	567.9	562.6	561.4	558.5	553.5	553.1
1894.5	35°	1560.9	1085.2	637.1	538.7	556.0	543.2	544.1	537.1	526.8	521.8
2027.1	37.5°	1578.6	1019.3	584.8	528.8	535.0	534.6	531.3	519.3	501.2	485.6
2192.7	40°	1621.5	1000.0	549.0	524.3	525.1	530.1	521.4	498.3	457.2	431.6
2360.7	42.5°	1688.6	1032.5	541.2	513.2	518.5	523.5	506.6	453.0	423.8	408.6
2537.0	45°	1773.8	1089.4	558.1	497.1	502.9	511.5	461.3	435.7	422.6	423.0
2711.6	47.5°	1881.8	1149.1	589.4	483.1	480.2	485.2	431.2	415.6	397.4	402.0
2879.3	50°	2006.5	1209.6	619.0	464.2	455.1	439.0	411.9	397.0	374.0	363.3
3041.1	52.5°	2141.6	1268.1	631.0	441.1	427.9	409.4	398.7	380.6	352.5	334.8
3193.9	55°	2269.7	1321.2	617.8	413.5	400.7	386.3	384.7	373.6	343.5	318.8
3329.8	57.5°	2390.8	1365.7	584.8	385.5	373.1	364.5	375.6	370.3	332.4	300.7
3458.3	60°	2493.4	1396.2	537.1	357.1	348.4	343.9	360.8	359.1	316.7	281.3
3573.6	62.5°	2574.9	1408.1	484.3	329.9	327.8	319.6	340.2	340.2	296.9	262.4
3675.0	65°	2638.7	1396.6	430.8	303.1	307.2	294.9	315.1	312.6	275.9	245.5
3791.5	67.5°	2695.2	1358.7	371.5	276.8	286.2	270.6	288.7	282.9	252.9	228.6
3892.4	70°	2720.3	1270.6	303.9	250.4	261.9	246.7	262.4	251.6	226.9	210.5
3781.6	72.5°	2518.5	1056.0	239.3	222.8	232.7	220.3	233.9	221.6	198.9	191.5
3265.6	75°	2083.6	792.4	184.1	192.7	200.2	190.7	199.7	190.7	170.1	175.4
2412.2	77.5°	1513.1	535.0	140.9	161.0	164.3	159.4	167.2	156.9	138.4	137.1
1202.2	80°	752.5	313.4	110.4	127.3	126.0	122.7	131.8	126.9	111.2	117.8
324.5	82.5°	217.9	134.3	80.3	89.4	86.9	87.7	94.3	96.8	145.0	143.7
100.9	85°	68.4	52.7	48.2	49.8	47.4	48.6	55.6	110.4	102.1	59.7
31.3	87.5°	17.7	18.1	11.9	12.8	13.2	15.7	17.7	67.1	32.1	21.0
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>
1405.2
1338.1
1194.0
995.0
840.6
768.9
717.4
699.7
694.4
674.2
640.4
612.8
586.9
558.5
526.8
490.9
434.9
408.6
425.0
413.5
366.1
334.4
318.8
299.0
280.1
261.1
243.8
226.9
207.2
185.3
160.2
131.0
116.6
147.0
64.7
22.2
0.0

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