

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: P946413

Luminaire Tested: **GALN-SB2A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946413
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-SB2A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

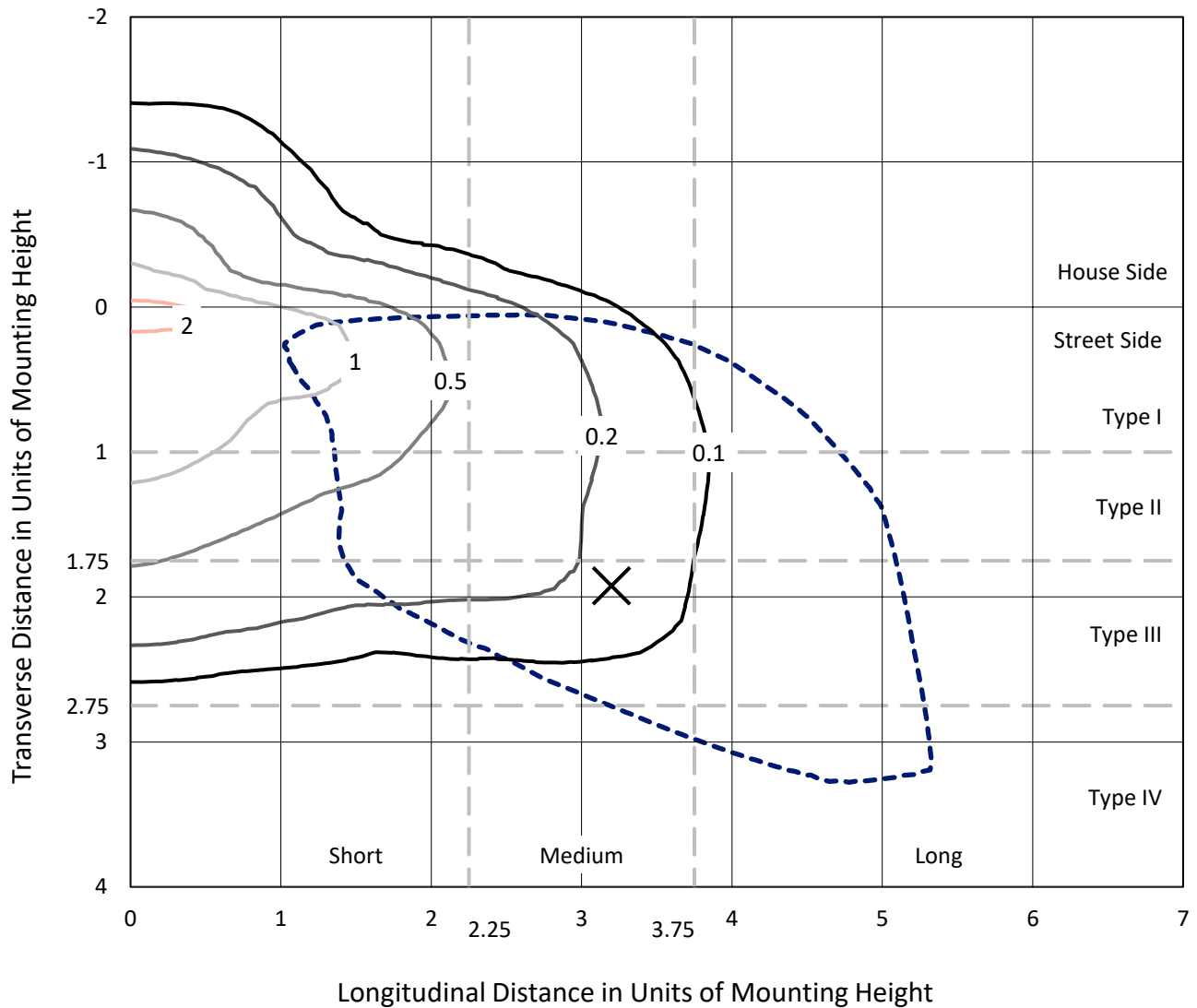
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

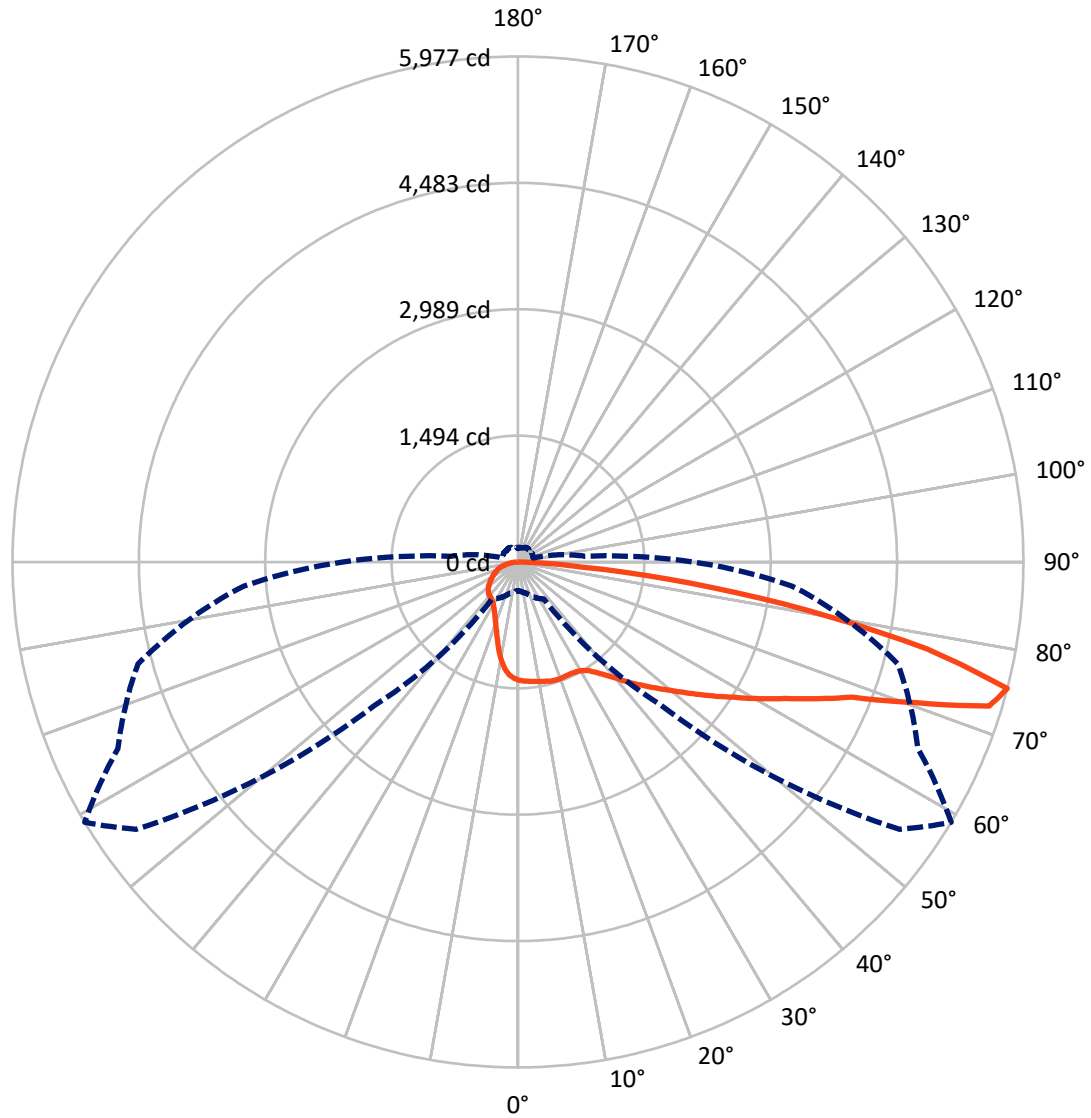
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1429.9	0.0	1429.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6194.1	0.0	6194.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	7624.0	0.0	7624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.6
10°-20°	320.7	4.2
20°-30°	487.2	6.4
30°-40°	724.1	9.5
40°-50°	1076.9	14.1
50°-60°	1461.8	19.2
60°-70°	1784.6	23.4
70°-80°	1400.5	18.4
80°-90°	242.6	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°	7624.0	100.0
0°-180°	7624.0	100.0



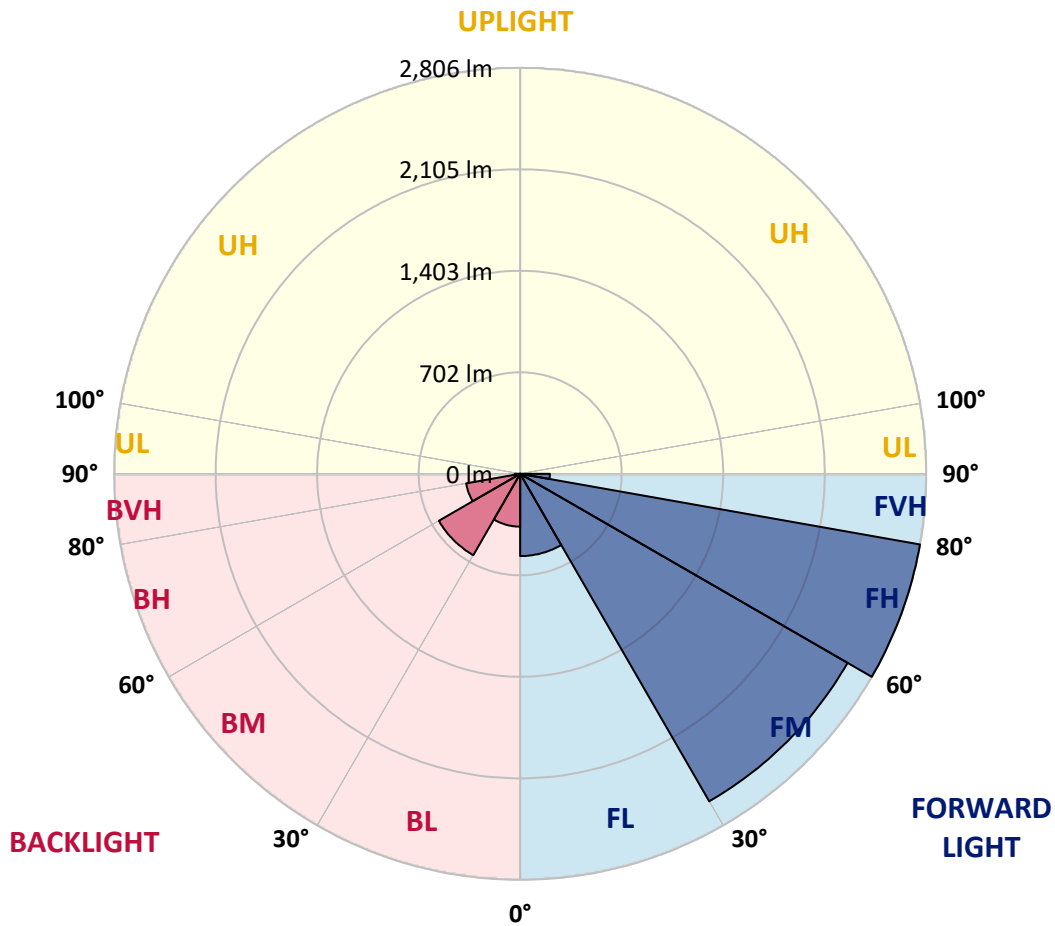
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.5	7.5			
FM (30°-60°)	2613.8	34.3			
FH (60°-80°)	2806.3	36.8			G2/5000
FVH (80°-90°)	205.5	2.7			G2/225
BL (0°-30°)	364.9	4.8	B1/500		
BM (30°-60°)	649.1	8.5	B1/1000		
BH (60°-80°)	378.9	5.0	B1/500		G1/500
BVH (80°-90°)	37.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1411.3	1406.3	1411.3	1409.2	1408.4	1406.8	1407.2	1410.0	1408.4	1410.4
5°	1401.8	1399.0	1403.9	1402.6	1408.0	1408.8	1414.1	1417.4	1419.5	1419.9
7.5°	1386.2	1383.4	1390.3	1396.1	1407.6	1410.9	1421.9	1427.3	1430.1	1435.0
10°	1329.2	1328.0	1345.2	1367.0	1394.0	1410.9	1427.7	1436.7	1441.2	1454.3
12.5°	1228.3	1230.0	1252.5	1294.4	1348.5	1402.6	1434.2	1447.4	1454.3	1470.7
15°	1132.0	1131.6	1156.2	1200.9	1276.7	1366.6	1437.5	1460.1	1472.0	1496.2
17.5°	1076.2	1074.5	1091.8	1125.8	1196.4	1311.2	1429.3	1467.0	1492.5	1522.8
20°	1065.9	1062.7	1071.7	1088.5	1138.5	1250.5	1408.0	1467.0	1508.9	1548.2
22.5°	1103.3	1097.9	1094.2	1092.2	1114.3	1200.5	1383.8	1462.1	1533.1	1584.7
25°	1178.3	1170.1	1151.2	1132.8	1126.2	1177.9	1362.5	1460.9	1569.2	1634.0
27.5°	1299.7	1289.5	1251.3	1207.0	1167.2	1189.4	1353.0	1468.3	1608.9	1686.1
30°	1450.2	1439.2	1391.2	1323.1	1251.7	1232.0	1364.9	1490.0	1659.8	1755.4
32.5°	1585.2	1572.9	1531.8	1462.5	1366.1	1305.9	1402.6	1531.4	1739.8	1851.7
35°	1704.9	1690.6	1653.6	1589.7	1506.4	1409.6	1470.7	1604.8	1853.4	2008.4
37.5°	1822.2	1805.4	1765.2	1697.5	1639.3	1547.8	1564.7	1699.2	2004.3	2198.7
40°	1953.5	1929.3	1880.5	1813.6	1757.0	1709.8	1688.1	1814.8	2157.7	2411.2
42.5°	2080.6	2057.6	1999.4	1942.4	1871.4	1857.9	1831.2	1950.2	2325.4	2644.5
45°	2217.6	2190.1	2119.6	2047.4	2002.7	1956.3	1969.9	2085.5	2489.9	2882.4
47.5°	2346.0	2315.2	2231.9	2151.5	2126.9	2039.2	2097.0	2234.4	2660.9	3123.6
50°	2415.3	2384.9	2315.6	2243.0	2223.7	2141.3	2234.8	2398.0	2840.2	3363.9
52.5°	2473.1	2440.3	2349.6	2309.4	2303.7	2252.4	2404.6	2585.1	3019.4	3576.3
55°	2534.6	2498.1	2382.5	2346.4	2372.6	2377.1	2606.0	2797.1	3208.9	3783.5
57.5°	2605.6	2559.2	2414.0	2377.5	2439.9	2523.1	2837.3	3016.9	3395.1	3975.4
60°	2672.4	2625.7	2474.7	2427.2	2512.5	2692.5	3102.6	3283.1	3605.9	4146.4
62.5°	2685.5	2647.0	2523.1	2522.7	2610.9	2890.2	3416.8	3551.7	3790.0	4315.4
65°	2458.3	2434.1	2360.7	2519.0	2752.0	3174.8	3766.6	3895.4	4024.2	4463.0
67.5°	1871.0	1874.3	1869.0	2174.5	2638.0	3583.7	4273.2	4263.3	4313.4	4628.7
70°	855.5	874.8	1000.3	1501.1	2113.4	3630.9	5110.6	4983.1	4676.3	4843.2
72.5°	462.2	477.0	528.2	727.2	1270.6	3228.1	5736.5	5827.1	5159.0	4987.6
75°	339.2	347.4	383.1	462.2	533.6	2399.3	5512.2	5977.3	5219.3	4650.9
77.5°	253.9	257.6	286.7	366.2	273.1	1264.8	4404.4	4950.3	4468.0	3821.2
80°	184.1	188.3	210.0	274.8	191.5	462.6	3024.3	3474.6	3060.0	2435.8
82.5°	127.1	128.8	138.2	187.0	133.7	179.6	1716.0	2037.5	1708.2	854.7
85°	76.7	78.7	82.8	109.1	75.9	85.3	740.7	766.1	510.6	204.2
87.5°	31.6	33.6	36.9	45.9	29.9	23.8	122.2	153.4	95.6	59.9
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°
1399.4	0°	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
1403.5	2.5°	1401.4	1398.5	1390.8	1380.1	1370.2	1357.9	1352.6	1348.1	1344.0	1336.2
1414.5	5°	1410.0	1402.2	1381.3	1354.3	1323.5	1289.9	1257.1	1234.5	1215.2	1200.9
1427.3	7.5°	1423.2	1408.4	1370.2	1314.9	1244.3	1172.2	1106.9	1060.6	1025.7	1013.0
1445.3	10°	1436.7	1419.1	1352.6	1255.0	1133.2	1022.0	935.5	887.9	860.0	851.0
1466.6	12.5°	1452.7	1426.8	1325.1	1171.7	1008.9	887.1	811.6	783.8	769.4	764.5
1492.9	15°	1476.1	1433.4	1283.7	1067.6	890.4	788.7	739.9	720.6	713.2	712.8
1519.9	17.5°	1493.7	1434.6	1219.3	956.0	799.3	729.2	689.0	681.6	686.6	693.9
1546.6	20°	1513.4	1423.6	1134.8	854.3	735.4	677.1	660.3	665.2	677.1	687.8
1581.9	22.5°	1527.3	1403.5	1032.7	775.1	680.0	647.2	646.4	656.6	663.2	668.5
1623.3	25°	1539.6	1369.4	924.4	708.7	634.5	629.1	638.2	634.9	630.4	634.9
1664.7	27.5°	1548.7	1315.7	827.6	650.5	602.5	616.8	611.5	604.1	603.7	606.2
1713.5	30°	1545.8	1243.9	748.1	595.1	579.9	593.9	581.2	579.9	578.7	579.9
1786.9	32.5°	1545.8	1162.3	687.0	557.0	565.6	560.2	559.0	556.1	551.2	550.8
1886.6	35°	1554.4	1080.7	634.5	536.5	553.7	541.0	541.8	534.8	524.6	519.6
2018.7	37.5°	1572.0	1015.1	582.4	526.6	532.8	532.4	529.1	517.2	499.1	483.5
2183.5	40°	1614.7	995.8	546.7	522.1	522.9	527.8	519.2	496.3	455.2	429.8
2350.9	42.5°	1681.5	1028.2	538.9	511.0	516.4	521.3	504.5	451.1	422.0	406.9
2526.4	45°	1766.4	1084.8	555.7	495.0	500.8	509.4	459.3	433.9	420.8	421.2
2700.3	47.5°	1873.9	1144.3	586.9	481.1	478.2	483.1	429.4	413.8	395.8	400.3
2867.2	50°	1998.2	1204.6	616.4	462.2	453.2	437.2	410.1	395.4	372.4	361.7
3028.4	52.5°	2132.7	1262.8	628.3	439.3	426.1	407.7	397.0	379.0	351.1	333.4
3180.6	55°	2260.2	1315.7	615.2	411.8	399.1	384.7	383.1	372.0	342.0	317.4
3315.9	57.5°	2380.8	1360.0	582.4	383.9	371.6	363.0	374.0	368.7	331.0	299.4
3443.9	60°	2482.9	1390.3	534.8	355.6	347.0	342.5	359.3	357.6	315.4	280.1
3558.7	62.5°	2564.1	1402.2	482.3	328.5	326.5	318.3	338.8	338.8	295.7	261.3
3659.6	65°	2627.7	1390.8	429.0	301.9	306.0	293.7	313.8	311.3	274.8	244.4
3775.7	67.5°	2683.9	1353.0	369.9	275.6	285.0	269.5	287.5	281.8	251.8	227.6
3876.2	70°	2708.9	1265.3	302.7	249.4	260.8	245.7	261.3	250.6	226.0	209.6
3765.8	72.5°	2508.0	1051.6	238.3	221.9	231.7	219.4	233.0	220.7	198.1	190.7
3251.9	75°	2074.9	789.1	183.3	191.9	199.3	189.9	198.9	189.9	169.4	174.7
2402.1	77.5°	1506.8	532.8	140.3	160.4	163.6	158.7	166.5	156.3	137.8	136.6
1197.2	80°	749.3	312.1	109.9	126.7	125.5	122.2	131.2	126.3	110.7	117.3
323.2	82.5°	217.0	133.7	80.0	89.0	86.5	87.4	93.9	96.4	144.4	143.1
100.5	85°	68.1	52.5	48.0	49.6	47.2	48.4	55.4	109.9	101.7	59.5
31.2	87.5°	17.6	18.0	11.9	12.7	13.1	15.6	17.6	66.9	32.0	20.9
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>
1399.4
1332.5
1189.0
990.9
837.1
765.7
714.4
696.8
691.5
671.4
637.8
610.3
584.4
556.1
524.6
488.9
433.1
406.9
423.3
411.8
364.6
333.0
317.4
297.8
278.9
260.0
242.8
226.0
206.3
184.6
159.5
130.4
116.1
146.4
64.4
22.1
0.0

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