

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: P946434

Luminaire Tested: **GALN-SB2A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946434
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 7878 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

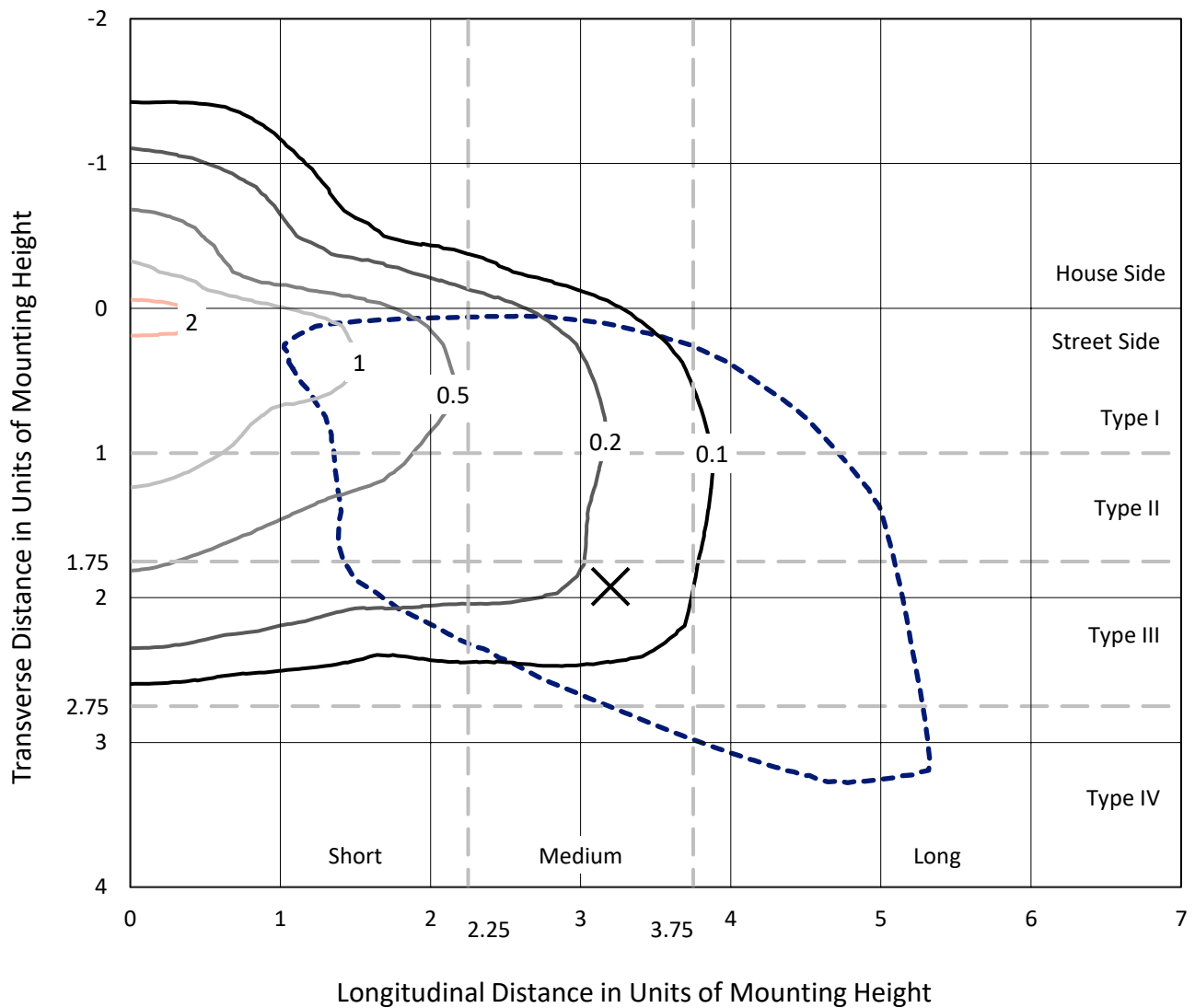
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

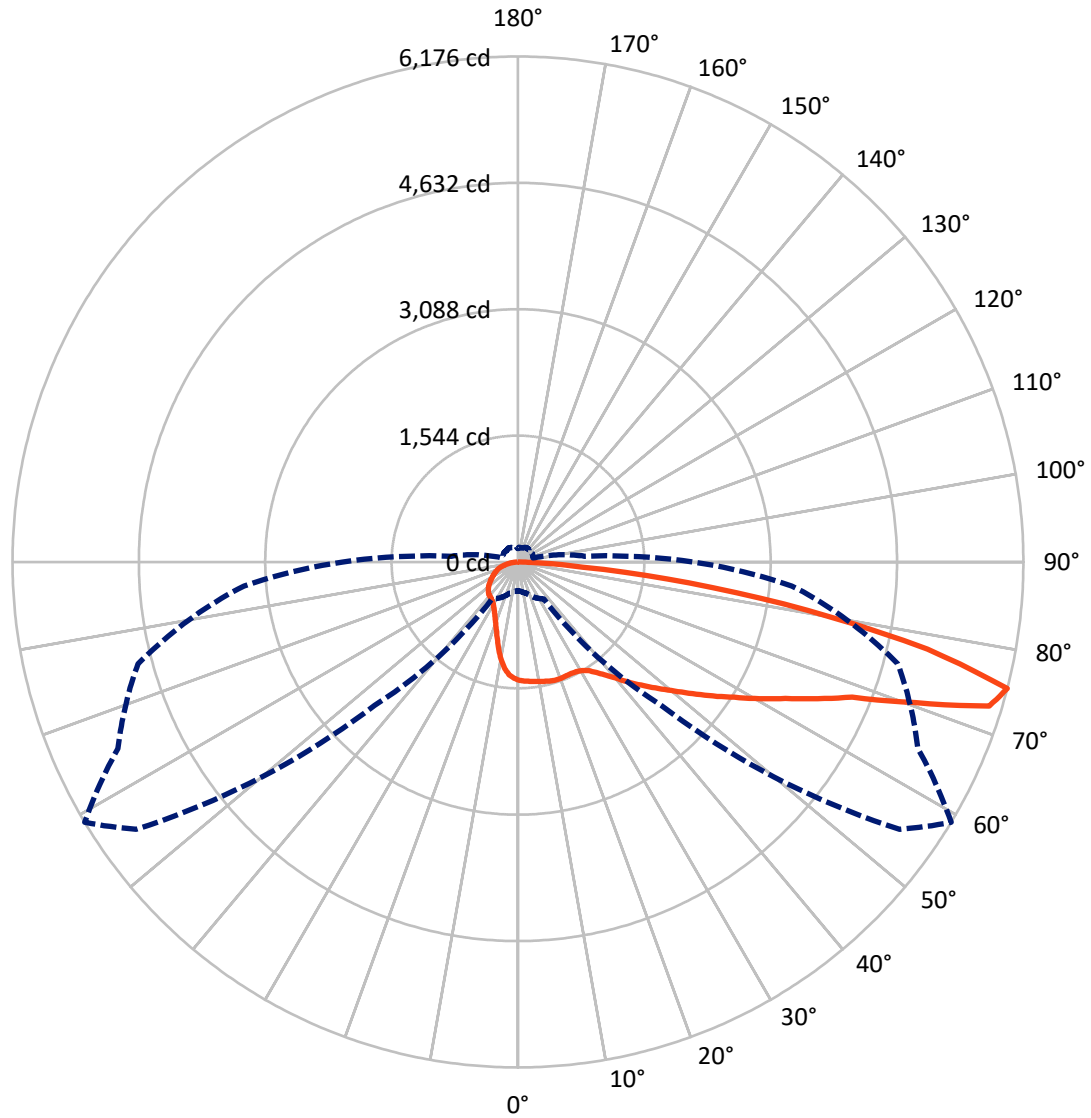
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1477.6	0.0	1477.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6400.4	0.0	6400.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	7878.0	0.0	7878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.6
10°-20°	331.4	4.2
20°-30°	503.4	6.4
30°-40°	748.3	9.5
40°-50°	1112.8	14.1
50°-60°	1510.5	19.2
60°-70°	1844.1	23.4
70°-80°	1447.2	18.4
80°-90°	250.7	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°	7878.0	100.0
0°-180°	7878.0	100.0

Coefficient of Utilization



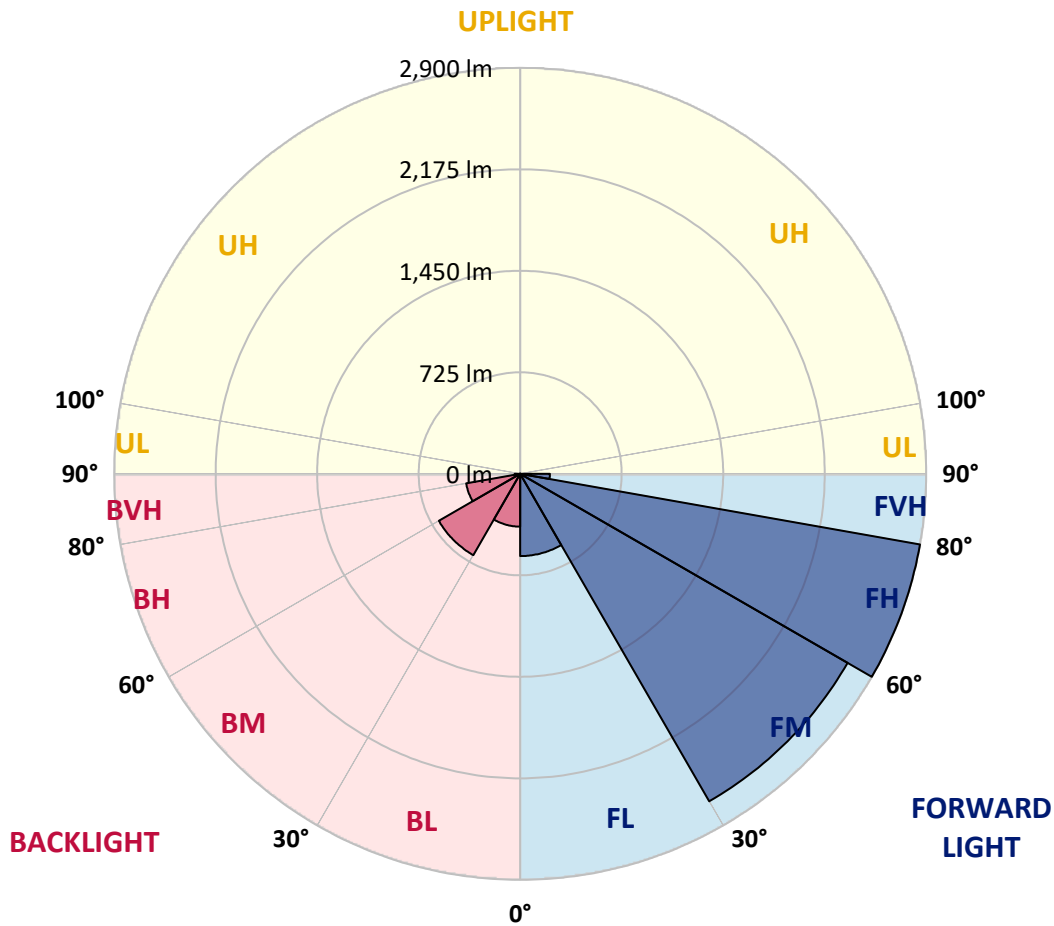
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.4	7.5			
FM (30°-60°)	2700.9	34.3			
FH (60°-80°)	2899.8	36.8			G2/5000
FVH (80°-90°)	212.3	2.7			G2/225
BL (0°-30°)	377.1	4.8	B1/500		
BM (30°-60°)	670.7	8.5	B1/1000		
BH (60°-80°)	391.5	5.0	B1/500		G1/500
BVH (80°-90°)	38.4	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°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1458.3	1453.2	1458.3	1456.2	1455.3	1453.6	1454.0	1457.0	1455.3	1457.4
5°	1448.5	1445.6	1450.7	1449.4	1454.9	1455.7	1461.2	1464.6	1466.8	1467.2
7.5°	1432.4	1429.5	1436.7	1442.6	1454.5	1457.9	1469.3	1474.8	1477.8	1482.9
10°	1373.5	1372.2	1390.0	1412.5	1440.5	1457.9	1475.2	1484.6	1489.2	1502.8
12.5°	1269.3	1271.0	1294.3	1337.5	1393.4	1449.4	1482.0	1495.6	1502.8	1519.7
15°	1169.7	1169.3	1194.7	1240.9	1319.3	1412.1	1485.4	1508.7	1521.0	1546.0
17.5°	1112.0	1110.3	1128.1	1163.3	1236.2	1354.9	1476.9	1515.9	1542.2	1573.6
20°	1101.4	1098.1	1107.4	1124.8	1176.5	1292.2	1454.9	1515.9	1559.1	1599.8
22.5°	1140.0	1134.5	1130.7	1128.6	1151.5	1240.4	1429.9	1510.8	1584.1	1637.5
25°	1217.6	1209.1	1189.6	1170.5	1163.7	1217.1	1407.8	1509.6	1621.4	1688.4
27.5°	1343.0	1332.4	1293.0	1247.2	1206.1	1229.0	1398.1	1517.2	1662.5	1742.2
30°	1498.5	1487.1	1437.5	1367.2	1293.4	1273.1	1410.4	1539.6	1715.1	1813.8
32.5°	1638.0	1625.3	1582.9	1511.3	1411.7	1349.4	1449.4	1582.5	1797.7	1913.4
35°	1761.7	1746.9	1708.7	1642.6	1556.6	1456.6	1519.7	1658.3	1915.1	2075.3
37.5°	1882.9	1865.5	1824.0	1754.1	1693.9	1599.4	1616.8	1755.8	2071.1	2272.0
40°	2018.5	1993.5	1943.1	1874.0	1815.5	1766.8	1744.3	1875.3	2229.6	2491.5
42.5°	2149.9	2126.2	2066.0	2007.1	1933.8	1919.8	1892.2	2015.1	2402.9	2732.6
45°	2291.5	2263.1	2190.2	2115.6	2069.4	2021.5	2035.5	2155.0	2572.9	2978.4
47.5°	2424.1	2392.3	2306.3	2223.2	2197.8	2107.1	2166.9	2308.8	2749.6	3227.6
50°	2495.7	2464.4	2392.7	2317.7	2297.8	2212.6	2309.3	2477.9	2934.8	3476.0
52.5°	2555.5	2521.6	2427.9	2386.4	2380.5	2327.5	2484.7	2671.2	3120.0	3695.5
55°	2619.1	2581.3	2461.8	2424.5	2451.7	2456.3	2692.8	2890.3	3315.8	3909.5
57.5°	2692.4	2644.5	2494.5	2456.7	2521.2	2607.2	2931.8	3117.4	3508.2	4107.8
60°	2761.4	2713.1	2557.2	2508.0	2596.2	2782.2	3206.0	3392.5	3726.0	4284.6
62.5°	2775.0	2735.2	2607.2	2606.8	2697.9	2986.5	3530.6	3670.1	3916.3	4459.2
65°	2540.2	2515.2	2439.4	2603.0	2843.7	3280.6	3892.1	4025.2	4158.3	4611.7
67.5°	1933.4	1936.7	1931.2	2247.0	2725.9	3703.1	4415.5	4405.4	4457.1	4783.0
70°	884.0	904.0	1033.6	1551.1	2183.8	3751.9	5280.9	5149.1	4832.1	5004.6
72.5°	477.6	492.9	545.8	751.4	1312.9	3335.7	5927.6	6021.3	5330.9	5153.8
75°	350.5	359.0	395.8	477.6	551.4	2479.2	5695.8	6176.4	5393.2	4805.8
77.5°	262.3	266.1	296.2	378.4	282.2	1307.0	4551.1	5115.2	4616.8	3948.5
80°	190.3	194.5	217.0	283.9	197.9	478.0	3125.1	3590.4	3161.9	2516.9
82.5°	131.4	133.1	142.8	193.3	138.2	185.6	1773.2	2105.4	1765.1	883.2
85°	79.2	81.4	85.6	112.7	78.4	88.1	765.4	791.6	527.6	211.1
87.5°	32.6	34.8	38.1	47.5	30.9	24.6	126.3	158.5	98.7	61.9
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°
1446.0	0°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
1450.2	2.5°	1448.1	1445.1	1437.1	1426.1	1415.9	1403.2	1397.7	1393.0	1388.8	1380.7
1461.7	5°	1457.0	1449.0	1427.3	1399.4	1367.6	1332.8	1298.9	1275.6	1255.7	1240.9
1474.8	7.5°	1470.6	1455.3	1415.9	1358.7	1285.8	1211.2	1143.8	1095.9	1059.9	1046.8
1493.5	10°	1484.6	1466.3	1397.7	1296.8	1170.9	1056.1	966.7	917.5	888.7	879.4
1515.5	12.5°	1501.1	1474.4	1369.3	1210.8	1042.5	916.7	838.7	809.9	795.0	790.0
1542.6	15°	1525.2	1481.2	1326.5	1103.1	920.1	815.0	764.5	744.6	737.0	736.6
1570.6	17.5°	1543.5	1482.4	1259.9	987.9	826.0	753.5	712.0	704.3	709.4	717.1
1598.1	20°	1563.8	1471.0	1172.6	882.8	759.9	699.7	682.3	687.4	699.7	710.7
1634.6	22.5°	1578.2	1450.2	1067.1	801.0	702.7	668.7	667.9	678.5	685.3	690.8
1677.4	25°	1590.9	1415.1	955.2	732.3	655.6	650.1	659.4	656.0	651.4	656.0
1720.2	27.5°	1600.3	1359.5	855.2	672.1	622.6	637.4	631.9	624.3	623.8	626.4
1770.6	30°	1597.3	1285.4	773.0	614.9	599.2	613.7	600.5	599.2	598.0	599.2
1846.5	32.5°	1597.3	1201.0	709.9	575.5	584.4	578.9	577.6	574.7	569.6	569.2
1949.5	35°	1606.2	1116.7	655.6	554.3	572.1	559.0	559.8	552.6	542.0	536.9
2085.9	37.5°	1624.4	1048.9	601.8	544.2	550.5	550.1	546.7	534.4	515.8	499.7
2256.3	40°	1668.5	1029.0	564.9	539.5	540.3	545.4	536.5	512.8	470.4	444.1
2429.2	42.5°	1737.6	1062.5	556.9	528.0	533.6	538.6	521.3	466.2	436.1	420.4
2610.6	45°	1825.3	1120.9	574.2	511.5	517.5	526.4	474.7	448.4	434.8	435.2
2790.3	47.5°	1936.3	1182.4	606.5	497.1	494.1	499.2	443.7	427.6	409.0	413.6
2962.8	50°	2064.7	1244.7	637.0	477.6	468.3	451.8	423.8	408.5	384.8	373.8
3129.3	52.5°	2203.7	1304.9	649.3	453.9	440.3	421.3	410.2	391.6	362.8	344.5
3286.5	55°	2335.5	1359.5	635.7	425.5	412.4	397.5	395.8	384.4	353.4	328.0
3426.4	57.5°	2460.1	1405.3	601.8	396.7	384.0	375.1	386.5	381.0	342.0	309.4
3558.6	60°	2565.7	1436.7	552.6	367.4	358.5	353.9	371.2	369.5	325.9	289.5
3677.3	62.5°	2649.6	1449.0	498.4	339.5	337.3	328.9	350.1	350.1	305.6	270.0
3781.5	65°	2715.3	1437.1	443.3	311.9	316.2	303.4	324.2	321.7	283.9	252.6
3901.5	67.5°	2773.3	1398.1	382.3	284.8	294.5	278.4	297.1	291.1	260.2	235.2
4005.3	70°	2799.2	1307.4	312.8	257.7	269.5	253.9	270.0	258.9	233.5	216.6
3891.3	72.5°	2591.5	1086.6	246.2	229.3	239.4	226.7	240.7	228.0	204.7	197.1
3360.3	75°	2144.0	815.4	189.4	198.3	206.0	196.2	205.5	196.2	175.0	180.5
2482.2	77.5°	1557.0	550.5	144.9	165.7	169.1	164.0	172.1	161.5	142.4	141.1
1237.1	80°	774.3	322.5	113.6	131.0	129.7	126.3	135.6	130.5	114.4	121.2
334.0	82.5°	224.2	138.2	82.6	92.0	89.4	90.3	97.0	99.6	149.2	147.9
103.8	85°	70.4	54.2	49.6	51.3	48.7	50.0	57.2	113.6	105.1	61.5
32.2	87.5°	18.2	18.6	12.3	13.1	13.6	16.1	18.2	69.1	33.1	21.6
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>
1446.0
1376.9
1228.6
1023.9
865.0
791.2
738.3
720.0
714.5
693.8
659.0
630.6
603.9
574.7
542.0
505.2
447.5
420.4
437.4
425.5
376.8
344.1
328.0
307.7
288.2
268.7
250.9
233.5
213.2
190.7
164.9
134.8
119.9
151.3
66.5
22.9
0.0

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