

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: P940154

Luminaire Tested: **GALN-SB3A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8831 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

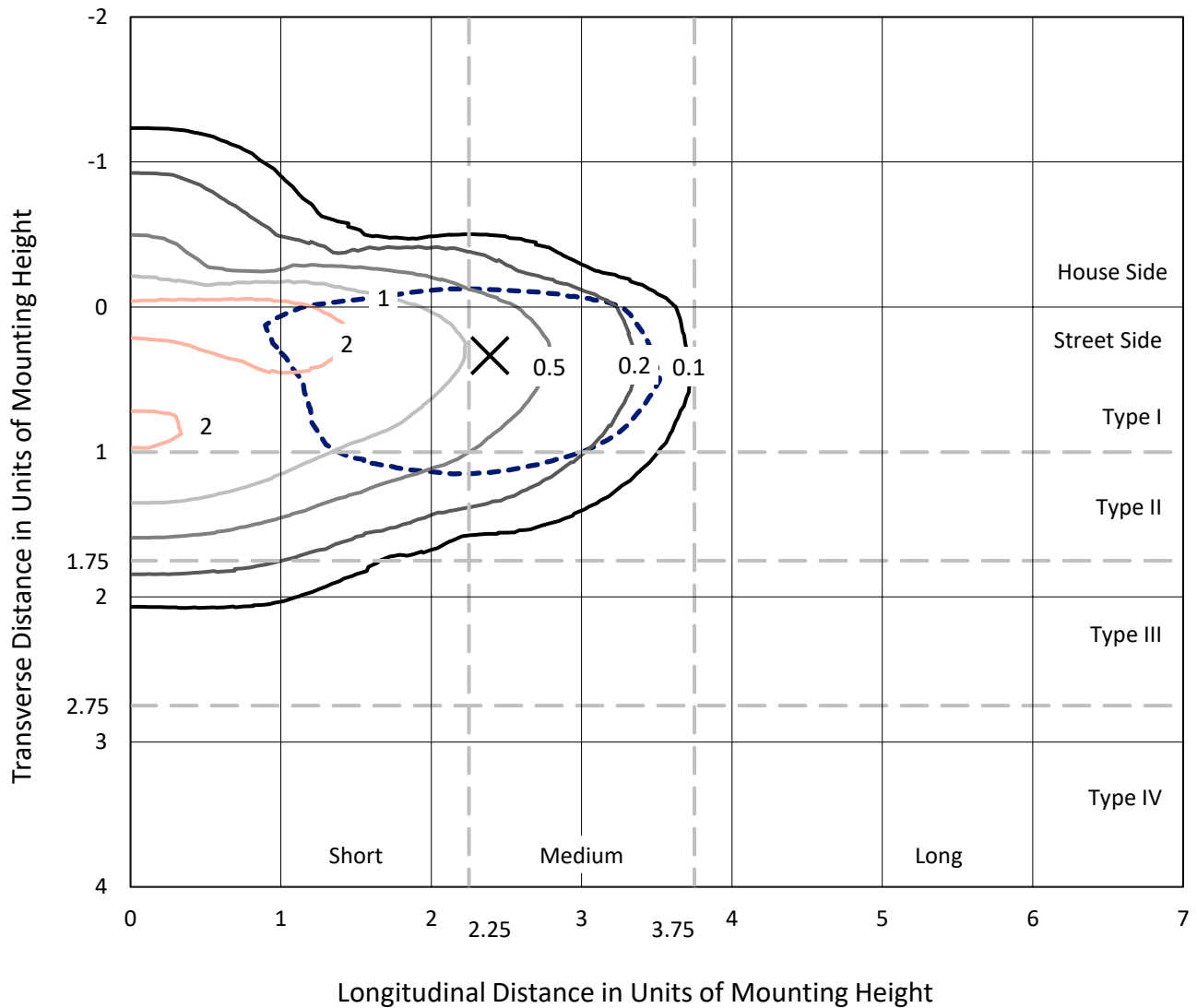
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

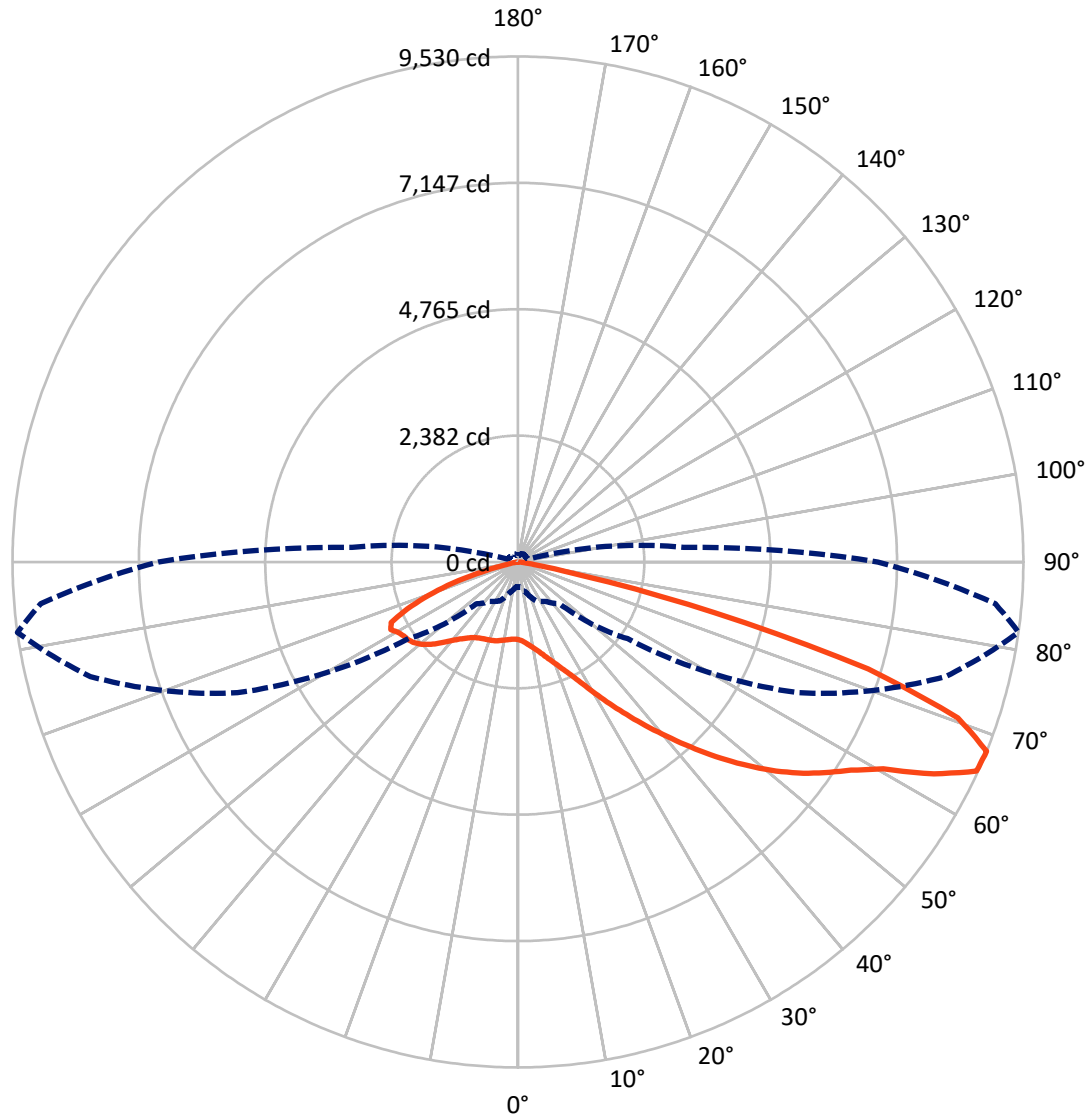
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1599.7	0.0	1599.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7231.3	0.0	7231.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	8831.0	0.0	8831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.5
10°-20°	338.7	3.8
20°-30°	542.5	6.1
30°-40°	959.3	10.9
40°-50°	1680.8	19.0
50°-60°	2241.7	25.4
60°-70°	2086.9	23.6
70°-80°	801.0	9.1
80°-90°	49.7	0.6
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°	8831.0	100.0
0°-180°	8831.0	100.0

Coefficient of Utilization



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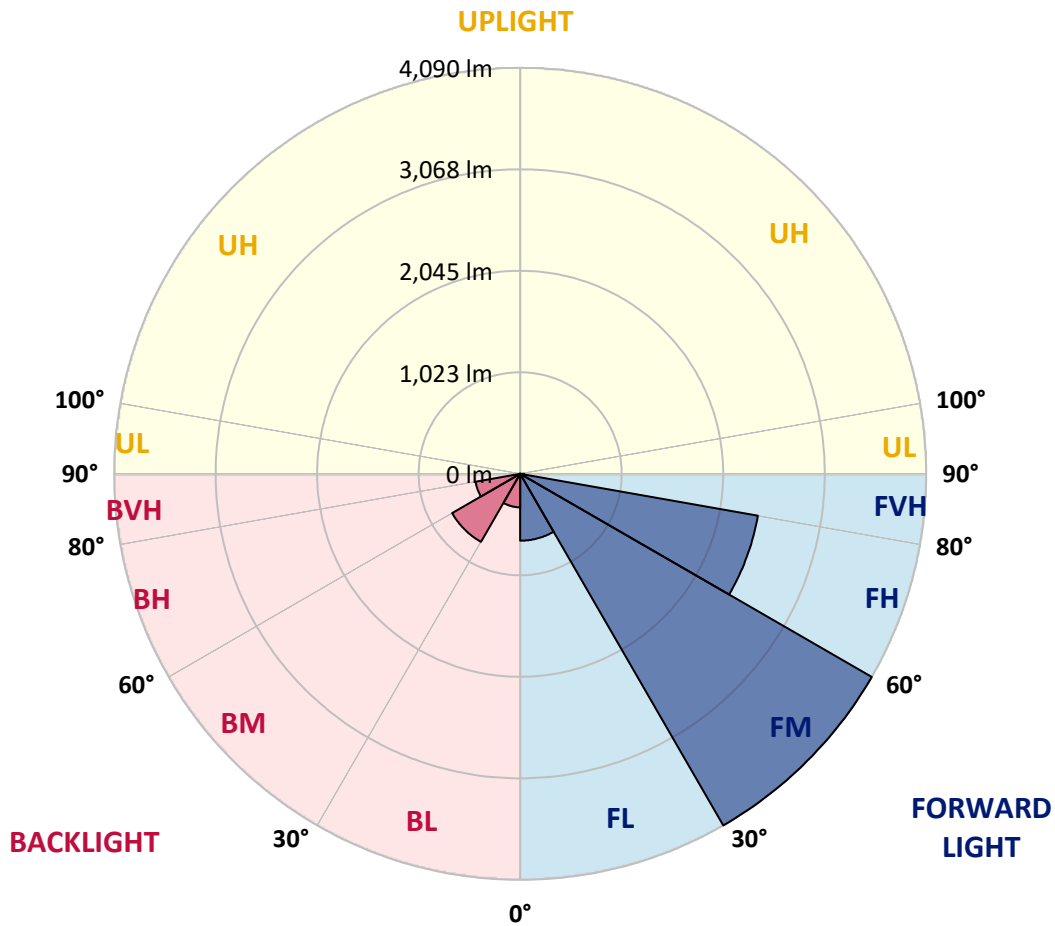
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.7	7.6			
FM (30°-60°)	4090.2	46.3			
FH (60°-80°)	2431.3	27.5			G2/5000
FVH (80°-90°)	36.2	0.4			G1/100
BL (0°-30°)	337.8	3.8	B1/500		
BM (30°-60°)	791.7	9.0	B1/1000		
BH (60°-80°)	456.6	5.2	B1/500		G1/500
BVH (80°-90°)	13.6	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1546.3	1555.2	1550.1	1547.6	1543.1	1536.8	1531.7	1515.8	1499.2	1488.4
5°	1577.4	1586.3	1585.7	1588.3	1591.4	1593.3	1592.1	1574.3	1550.7	1532.3
7.5°	1550.7	1560.9	1569.2	1581.9	1604.1	1627.7	1639.1	1635.3	1611.1	1585.7
10°	1475.1	1485.9	1505.6	1535.5	1582.5	1633.4	1676.0	1695.7	1680.4	1652.5
12.5°	1336.5	1347.3	1386.1	1450.9	1529.8	1618.1	1699.5	1752.3	1756.1	1728.1
15°	1180.7	1191.5	1232.8	1314.2	1434.4	1576.2	1712.2	1812.1	1845.8	1821.6
17.5°	1084.1	1093.6	1124.7	1190.2	1315.5	1492.2	1707.8	1875.6	1952.6	1933.5
20°	1054.8	1063.1	1077.7	1123.5	1227.7	1405.1	1678.5	1935.4	2067.7	2056.8
22.5°	1086.0	1093.6	1098.0	1118.4	1183.9	1347.9	1641.7	1996.4	2201.2	2202.4
25°	1157.8	1165.4	1160.4	1173.1	1201.7	1330.1	1627.7	2068.3	2369.0	2383.0
27.5°	1276.1	1276.7	1264.6	1264.0	1268.4	1356.8	1642.3	2145.2	2580.8	2606.8
30°	1513.2	1503.7	1457.3	1407.0	1384.2	1436.9	1683.0	2236.1	2830.6	2877.0
32.5°	1878.8	1864.8	1779.6	1659.5	1538.7	1566.0	1756.1	2339.8	3102.8	3186.7
35°	2275.6	2271.7	2182.7	2004.1	1793.0	1749.7	1875.0	2475.8	3399.7	3533.2
37.5°	2644.3	2642.4	2591.6	2381.1	2124.2	2006.0	2065.7	2653.9	3717.6	3910.9
40°	2981.3	2987.0	2936.2	2748.0	2489.2	2334.7	2325.2	2873.9	4071.1	4322.2
42.5°	3272.5	3278.9	3227.4	3088.1	2849.7	2698.4	2643.7	3143.4	4416.3	4764.1
45°	3470.2	3509.7	3502.0	3390.8	3219.7	3062.7	3026.5	3481.7	4809.9	5232.7
47.5°	3526.2	3562.4	3619.7	3634.9	3530.7	3376.1	3419.4	3889.2	5207.9	5701.9
50°	3388.2	3421.9	3540.8	3699.1	3771.6	3723.9	3801.5	4326.0	5615.5	6169.9
52.5°	3116.1	3150.4	3300.5	3551.0	3846.6	3996.7	4184.9	4756.5	6010.3	6613.1
55°	2722.5	2758.8	2951.4	3235.0	3703.6	4109.2	4504.7	5186.3	6372.1	7011.7
57.5°	2187.2	2213.9	2414.2	2810.9	3343.7	3997.3	4740.6	5655.5	6712.9	7403.4
60°	1425.5	1449.0	1681.7	2124.2	2747.3	3623.5	4787.6	6178.8	7165.6	7912.7
62.5°	948.0	963.9	1101.9	1426.8	1934.8	2905.6	4512.3	6596.5	7829.4	8799.0
65°	650.4	666.3	804.3	1030.6	1250.0	1922.1	3720.8	6541.2	8430.8	9502.8
67.5°	464.1	477.5	594.5	808.1	904.8	1116.5	2522.3	5834.2	8344.4	9529.5
70°	332.5	340.2	436.8	629.5	719.1	670.8	1402.6	4462.1	7306.1	8799.6
72.5°	232.7	235.2	303.3	479.4	579.2	489.6	667.6	2975.0	5525.8	6906.8
75°	157.7	160.9	204.1	351.6	464.8	373.9	353.5	1595.2	3243.9	3823.1
77.5°	96.6	97.9	131.6	240.3	347.8	284.8	227.6	675.9	1255.1	1232.2
80°	54.7	54.7	83.9	149.4	237.2	183.7	159.6	287.4	397.4	349.1
82.5°	30.5	31.2	61.0	92.8	157.0	108.7	87.7	132.9	171.7	152.0
85°	12.7	14.0	37.5	43.9	75.0	54.0	35.6	56.0	63.6	56.6
87.5°	1.3	1.9	11.4	8.3	8.9	10.8	5.1	10.8	8.9	8.9
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°
1463.0	0°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
1484.6	2.5°	1472.5	1463.0	1438.8	1410.9	1374.0	1356.2	1332.0	1315.5	1301.5	1302.8
1521.5	5°	1501.1	1477.0	1422.9	1355.5	1271.6	1211.9	1148.3	1104.4	1068.8	1061.2
1572.4	7.5°	1540.6	1502.4	1407.7	1286.2	1144.5	1037.0	941.0	879.3	835.5	821.5
1634.0	10°	1591.4	1536.1	1388.0	1199.1	995.0	858.3	755.3	707.0	677.1	667.0
1706.5	12.5°	1650.6	1574.9	1361.9	1093.0	841.2	709.6	644.1	619.9	610.4	607.2
1795.5	15°	1725.0	1623.2	1322.5	967.1	710.8	618.6	590.7	587.5	588.8	587.5
1902.3	17.5°	1813.3	1676.0	1258.3	837.4	623.1	572.2	562.1	564.6	567.8	567.1
2021.9	20°	1910.0	1728.1	1176.2	722.3	563.3	539.2	533.4	536.0	538.5	537.3
2159.8	22.5°	2020.0	1784.1	1085.3	632.6	523.3	508.6	502.3	502.9	502.9	500.4
2334.7	25°	2151.6	1845.8	990.0	569.0	492.8	481.3	473.7	471.1	467.3	459.7
2547.1	27.5°	2308.6	1911.2	898.4	524.5	468.6	457.8	448.9	442.5	433.0	420.3
2802.0	30°	2485.4	1990.7	820.8	496.6	449.5	438.7	428.5	419.0	405.0	389.1
3095.1	32.5°	2693.3	2075.9	764.2	478.1	432.4	420.9	408.8	397.4	382.1	366.2
3424.5	35°	2941.3	2178.9	731.2	465.4	419.0	403.7	390.4	377.7	366.2	352.2
3782.4	37.5°	3210.2	2288.3	721.0	459.1	410.1	386.6	371.3	362.4	361.1	352.9
4169.6	40°	3504.6	2418.0	728.6	455.2	400.6	370.0	353.5	351.6	354.8	340.2
4583.6	42.5°	3816.1	2571.8	741.4	450.8	387.2	353.5	337.6	337.6	335.1	314.7
5021.0	45°	4153.1	2749.2	754.1	440.0	371.3	337.0	324.9	320.4	309.6	289.9
5461.0	47.5°	4492.6	2929.8	763.6	420.3	352.2	323.0	312.2	302.0	286.1	268.3
5892.7	50°	4815.0	3091.9	753.4	391.0	330.6	309.6	298.2	284.2	267.0	255.0
6301.5	52.5°	5103.0	3232.5	710.2	356.7	307.7	295.7	285.5	270.9	256.9	244.2
6670.3	55°	5353.5	3346.3	633.9	324.3	287.4	283.6	273.4	255.0	235.9	225.1
7035.9	57.5°	5593.9	3432.7	538.5	297.6	268.9	270.2	255.0	238.4	220.6	209.2
7528.6	60°	5913.7	3548.5	441.9	272.8	249.2	253.1	236.5	224.4	202.2	187.6
8373.6	62.5°	6424.9	3728.4	351.0	242.2	226.3	227.6	220.6	206.0	179.3	162.1
8999.9	65°	6830.5	3662.3	276.6	209.2	200.3	202.2	202.2	186.3	157.7	138.0
9033.6	67.5°	6784.7	3135.8	220.6	176.8	175.5	176.8	181.2	167.9	139.9	124.0
8345.6	70°	6250.0	2494.3	176.8	146.9	152.6	149.4	162.1	153.2	125.9	110.0
6470.0	72.5°	5099.8	1796.8	134.8	121.4	117.0	122.1	146.2	138.0	104.9	87.1
3427.0	75°	2980.0	958.8	100.5	96.0	84.6	101.7	129.7	117.6	80.1	64.2
1050.4	77.5°	970.2	334.4	73.8	70.6	62.9	82.0	110.6	99.2	65.5	50.9
307.7	80°	260.0	101.1	50.2	46.4	40.7	61.0	87.7	78.8	47.0	33.1
132.2	82.5°	104.3	42.6	29.2	26.1	22.3	42.0	69.3	63.6	35.0	21.0
41.3	85°	33.7	14.0	10.8	8.3	10.2	26.1	41.3	43.2	24.8	10.8
6.4	87.5°	4.5	1.9	1.9	2.5	1.9	4.5	12.7	12.1	7.0	1.3
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

180°
1463.0
1290.1
1044.0
807.5
659.3
605.3
586.9
565.9
536.6
499.1
458.4
419.0
387.8
366.9
351.0
352.2
340.8
314.7
289.3
267.7
253.1
242.9
223.8
207.9
185.7
160.9
136.1
121.4
108.1
85.2
62.3
49.0
32.4
21.0
8.3
0.0
0.0

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