

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: P939659

Luminaire Tested: **GALN-SB2B-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10324 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

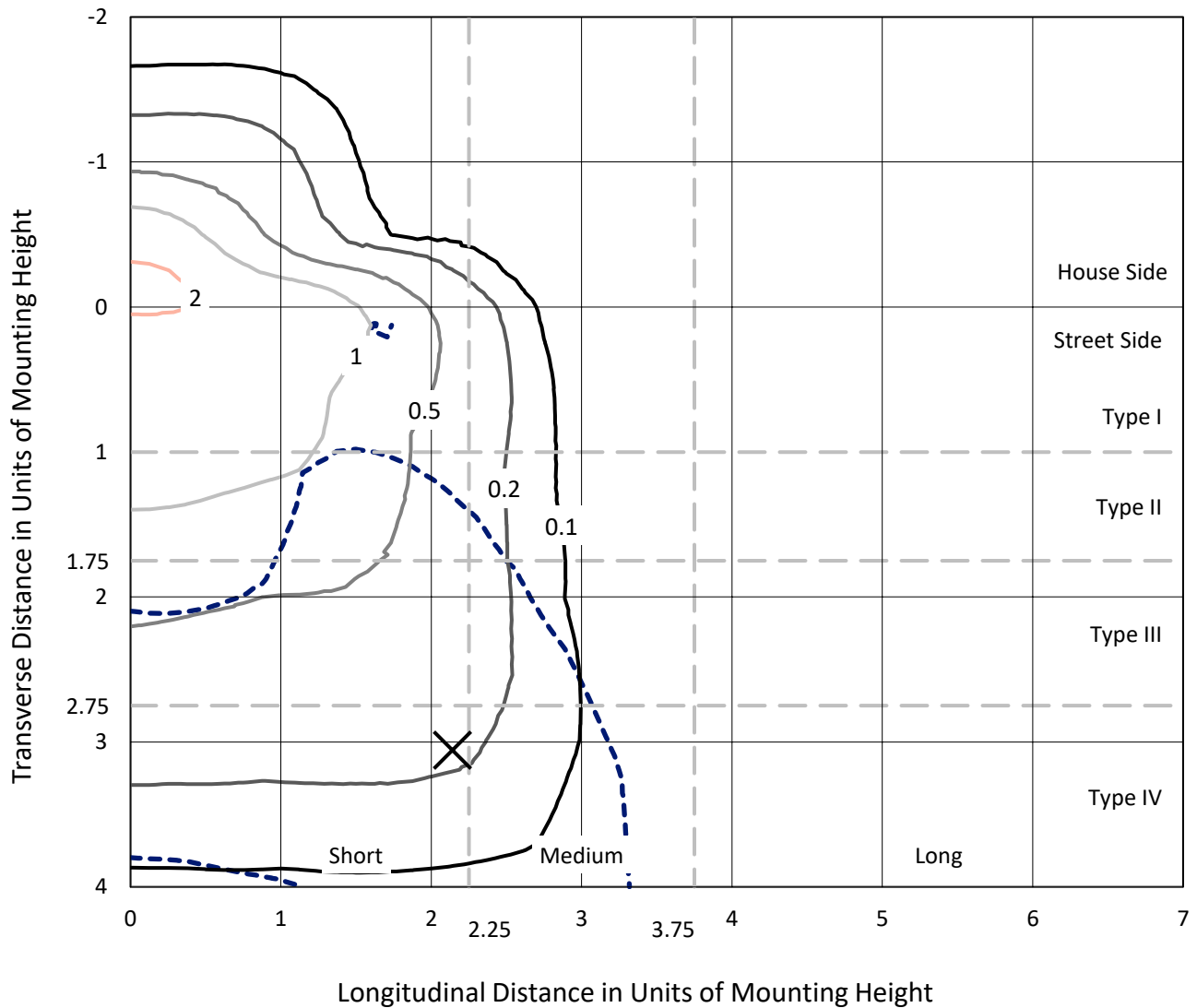
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

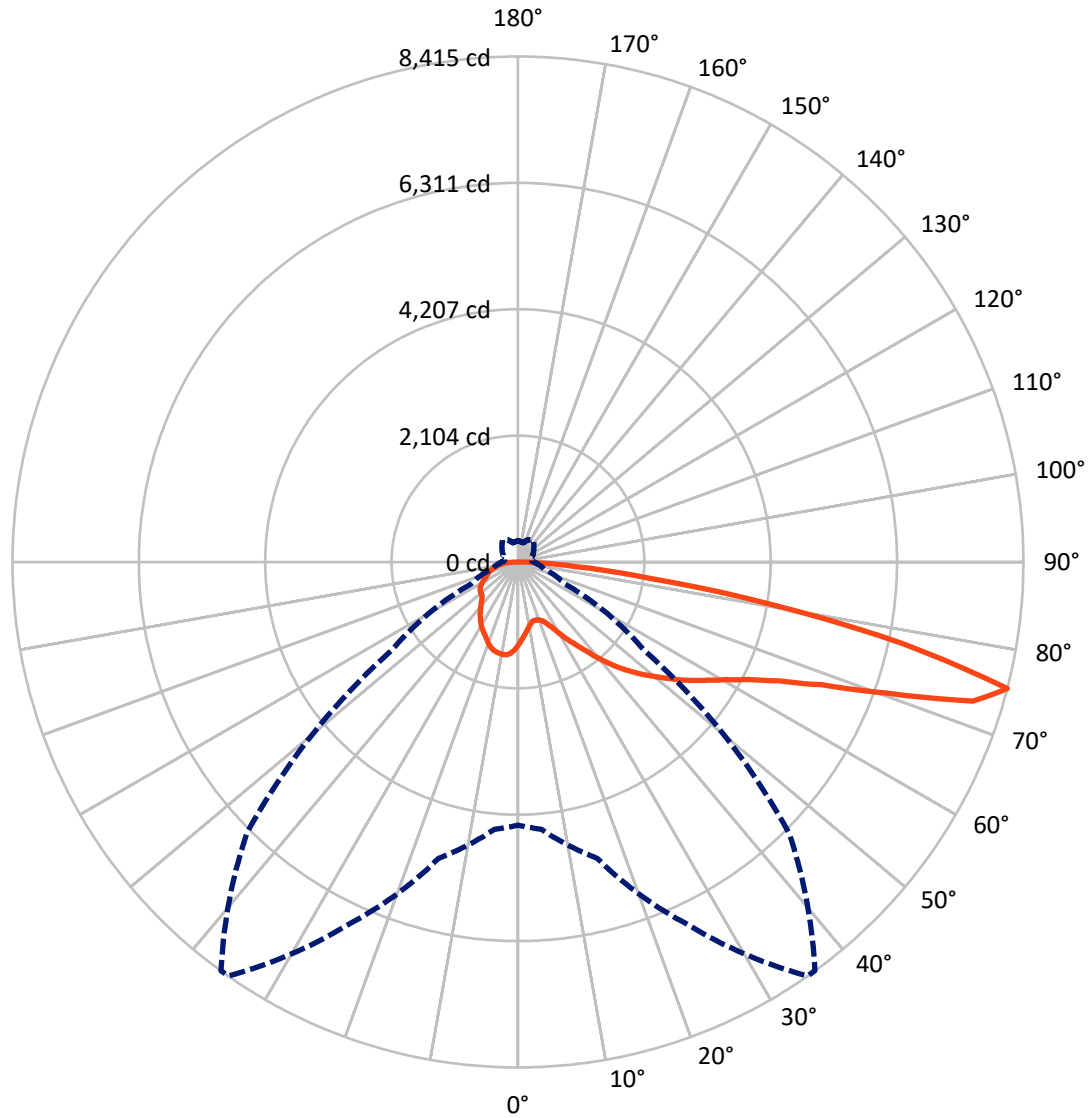
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2456.9	0.0	2456.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7867.1	0.0	7867.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	10324.0	0.0	10324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.3
10°-20°	375.7	3.6
20°-30°	630.9	6.1
30°-40°	980.5	9.5
40°-50°	1455.4	14.1
50°-60°	2009.2	19.5
60°-70°	2437.7	23.6
70°-80°	2014.5	19.5
80°-90°	289.7	2.8
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°	10324.0	100.0
0°-180°	10324.0	100.0

Coefficient of Utilization



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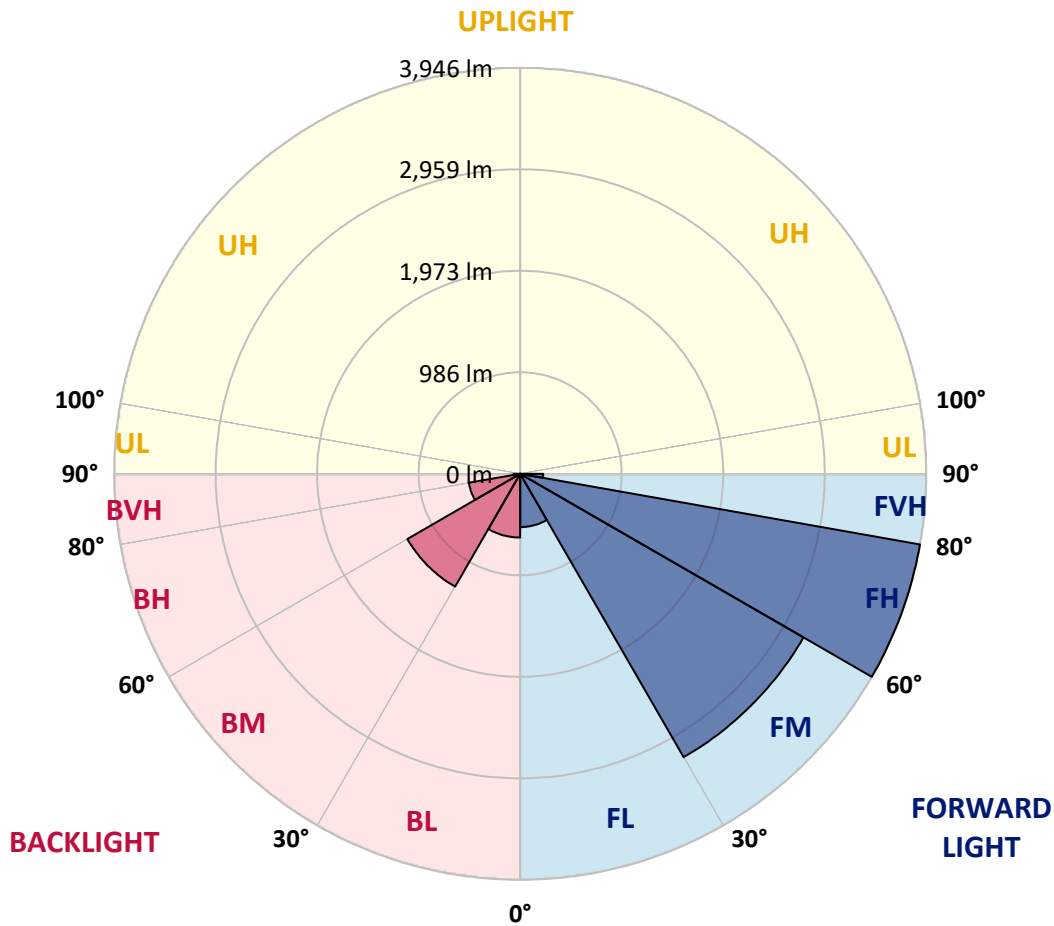
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.7	5.0			
FM (30°-60°)	3179.2	30.8			
FH (60°-80°)	3945.7	38.2			G2/5000
FVH (80°-90°)	224.5	2.2			G2/225
BL (0°-30°)	619.2	6.0	B2/1000		
BM (30°-60°)	1265.9	12.3	B2/2500		
BH (60°-80°)	506.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	65.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7
2.5°	1268.6	1276.4	1279.7	1278.1	1286.4	1285.3	1297.0	1311.6	1331.7	1351.2
5°	1170.9	1179.3	1186.5	1193.2	1209.4	1214.4	1232.9	1260.8	1297.6	1335.0
7.5°	1079.9	1087.2	1098.4	1110.6	1138.0	1143.0	1173.7	1217.2	1268.6	1323.3
10°	1005.7	1013.0	1024.7	1038.6	1072.7	1078.8	1117.9	1175.9	1242.9	1312.1
12.5°	973.9	976.1	982.8	996.8	1026.4	1030.3	1073.2	1139.7	1217.8	1303.7
15°	972.2	976.7	977.3	984.5	1009.1	1010.7	1050.4	1116.2	1202.2	1302.1
17.5°	989.0	992.3	987.3	991.8	1012.4	1015.2	1046.5	1105.1	1197.1	1309.3
20°	1033.6	1036.4	1021.3	1015.2	1030.3	1032.5	1063.2	1112.3	1202.2	1324.4
22.5°	1128.5	1130.2	1093.3	1068.2	1069.3	1070.5	1097.2	1141.9	1221.7	1351.7
25°	1276.4	1275.3	1216.7	1168.1	1140.2	1134.1	1151.9	1189.9	1254.6	1388.0
27.5°	1449.4	1441.0	1382.4	1309.9	1249.1	1240.1	1236.2	1252.4	1301.5	1436.0
30°	1644.8	1636.9	1573.9	1479.0	1394.7	1380.2	1343.4	1335.0	1371.3	1501.3
32.5°	1859.1	1854.0	1778.7	1663.7	1551.0	1534.2	1472.3	1450.0	1478.4	1600.1
35°	2038.8	2034.3	1971.8	1853.5	1715.6	1695.0	1631.9	1606.8	1621.3	1726.8
37.5°	2201.2	2199.0	2145.4	2052.2	1909.9	1884.7	1813.9	1805.5	1802.7	1893.7
40°	2351.9	2346.3	2290.5	2241.4	2135.9	2113.0	2050.5	2043.2	2022.0	2099.1
42.5°	2518.8	2504.2	2423.3	2400.4	2372.0	2353.0	2315.6	2316.7	2269.8	2330.7
45°	2654.9	2646.6	2563.4	2550.0	2580.7	2572.9	2605.3	2613.6	2522.7	2573.4
47.5°	2801.2	2793.3	2723.0	2713.5	2796.7	2798.9	2913.3	2916.1	2769.3	2825.7
50°	2981.4	2970.3	2900.5	2912.2	3005.4	3013.8	3223.1	3204.1	2996.5	3081.9
52.5°	3100.3	3107.0	3091.9	3110.9	3238.2	3246.0	3527.8	3479.3	3221.4	3334.7
55°	3187.9	3201.3	3248.2	3291.7	3483.7	3491.5	3815.2	3741.0	3407.8	3569.1
57.5°	3300.7	3281.7	3369.3	3454.1	3717.0	3737.7	4094.9	3993.3	3573.0	3771.2
60°	3462.5	3449.1	3517.2	3642.8	3978.2	4011.1	4390.7	4220.4	3694.1	3931.3
62.5°	3790.7	3757.2	3767.8	3878.9	4307.5	4351.0	4724.4	4418.6	3754.4	3993.8
65°	4281.3	4223.8	4170.2	4247.2	4771.3	4814.3	5101.1	4574.3	3732.1	3872.7
67.5°	4899.1	4842.2	4776.3	4848.9	5454.4	5488.5	5566.0	4661.9	3556.3	3406.1
70°	5408.7	5387.4	5466.1	5764.7	6545.5	6546.6	6162.1	4589.3	3074.6	2414.9
72.5°	5341.1	5328.3	5743.0	6666.1	7920.7	7891.1	6726.3	4040.2	2071.1	1089.4
75°	4381.7	4464.9	5107.3	6649.9	8414.6	8410.7	6380.9	2568.4	856.7	451.5
77.5°	2349.6	2481.4	3315.7	4909.7	6569.0	6667.7	4486.1	898.6	367.8	289.1
80°	766.3	881.3	1321.6	2499.8	4268.4	4250.0	1922.7	352.7	251.7	204.8
82.5°	325.4	338.8	590.5	1180.4	2190.6	2156.5	612.2	202.6	176.9	140.1
85°	127.2	142.3	260.6	545.8	948.8	928.1	221.0	100.5	113.3	91.5
87.5°	41.9	50.8	93.2	187.0	295.2	284.6	54.1	34.6	49.1	41.9
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°
1375.7	0°	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7	1375.7
1379.6	2.5°	1387.5	1396.4	1407.0	1422.6	1436.0	1447.2	1458.9	1466.2	1468.9	1477.3
1381.9	5°	1397.5	1417.0	1443.3	1468.9	1494.1	1509.1	1522.5	1529.2	1535.4	1539.8
1388.0	7.5°	1414.3	1439.4	1480.7	1514.2	1535.4	1547.6	1556.6	1554.3	1556.6	1557.7
1394.7	10°	1428.8	1463.9	1513.0	1544.9	1561.0	1561.6	1559.4	1551.5	1547.6	1548.2
1404.8	12.5°	1446.1	1485.1	1538.2	1564.9	1569.4	1557.1	1547.6	1534.2	1529.2	1527.0
1419.8	15°	1469.5	1514.2	1565.5	1575.5	1564.4	1548.8	1532.6	1510.8	1499.6	1490.7
1445.5	17.5°	1498.0	1547.1	1586.7	1579.5	1555.5	1529.8	1503.6	1470.6	1447.7	1438.3
1480.7	20°	1537.6	1581.7	1602.9	1571.1	1534.8	1495.7	1451.1	1410.9	1389.7	1380.2
1525.3	22.5°	1585.6	1628.0	1618.5	1556.6	1505.2	1442.7	1386.9	1357.3	1346.7	1340.0
1582.8	25°	1643.1	1679.4	1629.7	1535.4	1456.7	1372.4	1329.4	1319.9	1314.9	1309.9
1653.1	27.5°	1717.9	1737.4	1638.1	1504.1	1380.8	1297.6	1282.0	1283.7	1282.0	1273.6
1750.8	30°	1816.7	1812.7	1645.9	1453.3	1293.7	1230.1	1231.2	1238.4	1239.6	1234.0
1887.0	32.5°	1946.7	1907.1	1649.8	1387.5	1210.5	1170.9	1172.0	1179.8	1185.4	1175.9
2065.0	35°	2104.1	2017.0	1643.6	1304.9	1146.4	1114.5	1106.2	1108.4	1110.1	1101.2
2281.0	37.5°	2287.7	2140.4	1616.3	1213.3	1093.3	1059.3	1041.4	1026.4	1017.4	1009.1
2525.5	40°	2489.2	2274.9	1566.1	1124.0	1034.2	1000.7	973.9	945.4	915.3	904.1
2784.4	42.5°	2700.1	2413.3	1505.2	1038.6	966.1	938.7	910.3	869.0	823.8	800.9
3053.4	45°	2918.9	2555.0	1445.5	954.4	896.3	884.6	851.7	802.0	752.9	723.9
3323.0	47.5°	3133.2	2689.0	1357.9	869.5	831.0	843.9	818.2	772.4	717.7	672.0
3590.3	50°	3338.1	2814.6	1214.4	783.6	778.0	831.6	807.0	741.2	678.7	620.1
3852.6	52.5°	3541.2	2916.1	1030.8	705.5	749.5	828.2	792.5	720.0	643.5	582.1
4099.3	55°	3713.7	2968.6	853.9	638.5	708.2	799.8	775.2	694.8	593.8	528.5
4268.4	57.5°	3811.9	2926.2	706.6	572.6	651.3	752.9	745.6	641.3	534.7	484.4
4301.4	60°	3769.5	2754.3	586.0	515.1	597.2	702.1	694.3	588.2	489.5	442.0
4125.0	62.5°	3535.6	2426.7	490.6	464.9	548.1	650.2	642.9	547.5	454.9	409.1
3656.7	65°	3064.6	1974.0	416.4	423.0	498.4	587.7	598.3	513.5	427.5	382.9
2829.1	67.5°	2337.4	1429.9	358.3	386.8	449.8	526.3	557.0	488.9	404.6	362.2
1636.9	70°	1332.2	812.1	309.2	351.6	406.9	469.4	525.2	469.4	380.1	344.9
613.4	72.5°	505.1	372.8	267.3	316.4	365.6	421.4	490.0	438.7	351.6	325.4
317.0	75°	269.6	227.2	224.9	275.1	318.1	374.5	445.9	408.5	330.4	343.8
219.3	77.5°	183.6	160.7	188.1	235.5	266.2	322.6	399.0	362.8	286.3	285.2
151.8	80°	127.2	113.9	152.9	189.8	205.9	271.2	348.3	311.4	233.3	217.7
93.8	82.5°	76.5	74.2	114.4	141.8	145.7	209.3	288.5	261.2	190.9	166.3
55.8	85°	41.9	44.1	73.1	83.2	84.8	146.2	226.0	202.0	146.8	123.3
20.1	87.5°	11.7	15.1	26.8	32.9	40.7	75.9	134.5	120.0	73.7	51.3
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

<u>180°</u>
1375.7
1476.8
1540.9
1559.4
1549.3
1525.9
1493.5
1438.8
1379.1
1341.1
1309.9
1275.3
1236.8
1180.4
1107.3
1014.6
909.2
803.7
721.6
666.9
615.0
575.4
522.9
477.7
435.3
401.8
375.6
355.5
340.4
320.9
355.0
262.9
208.2
167.4
124.5
51.3
0.0

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