

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: P946360

Luminaire Tested: **GALN-SB2A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9743 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

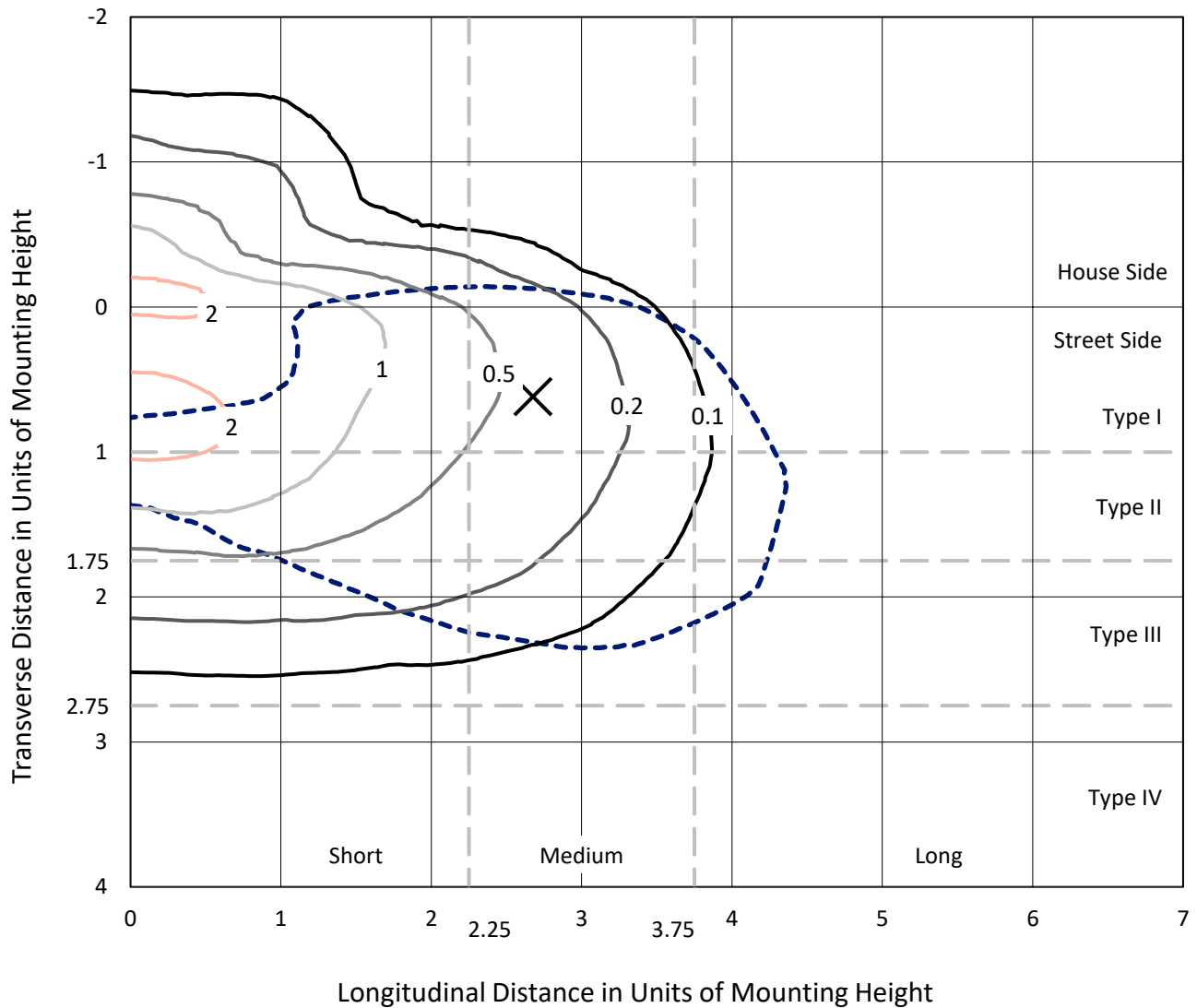
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

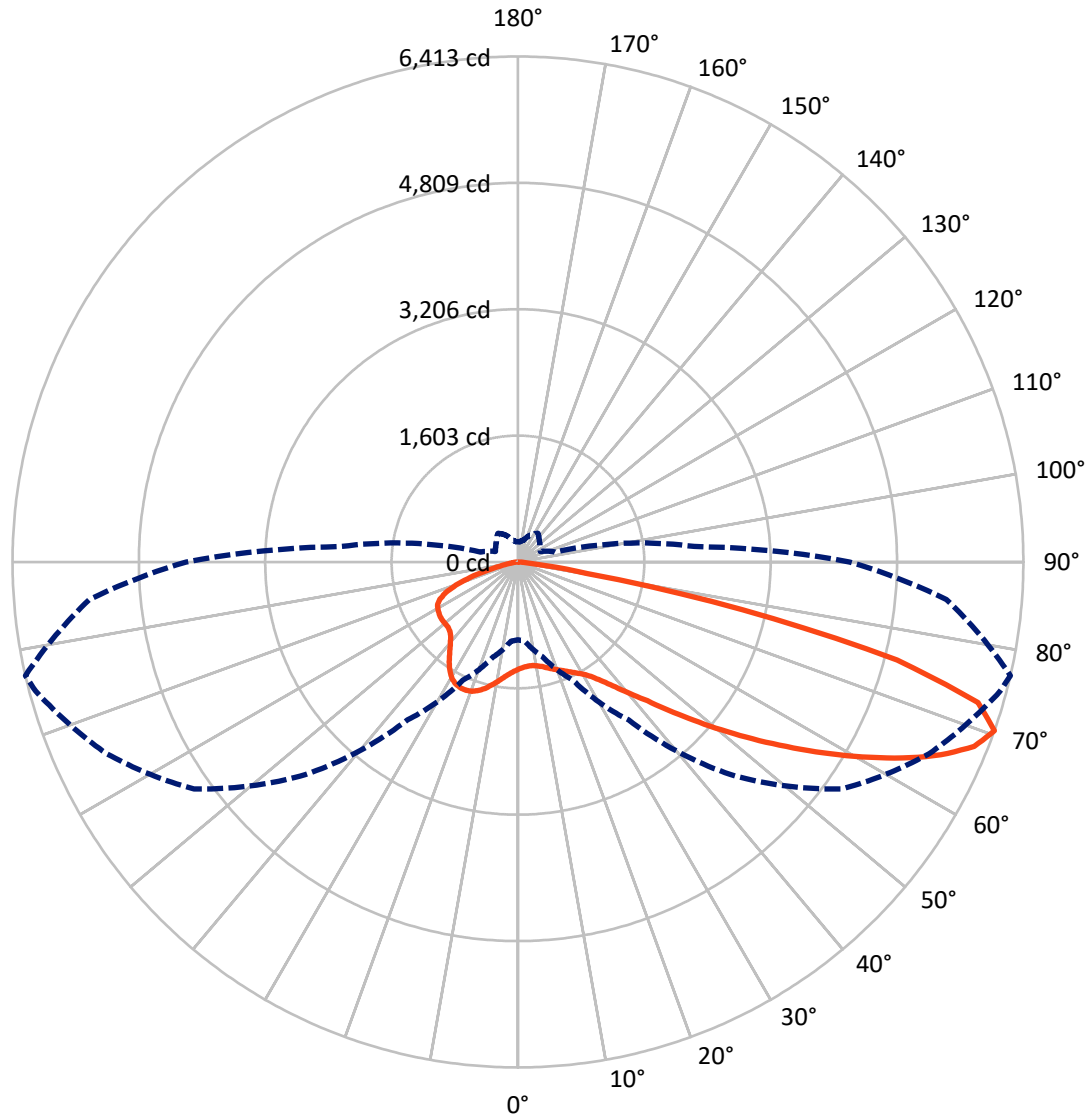
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.6	0.0	2133.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7609.4	0.0	7609.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	9743.0	0.0	9743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.3
10°-20°	374.1	3.8
20°-30°	639.8	6.6
30°-40°	1028.9	10.6
40°-50°	1606.4	16.5
50°-60°	2145.8	22.0
60°-70°	2287.1	23.5
70°-80°	1407.9	14.5
80°-90°	123.4	1.3
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°	9743.0	100.0
0°-180°	9743.0	100.0

Coefficient of Utilization



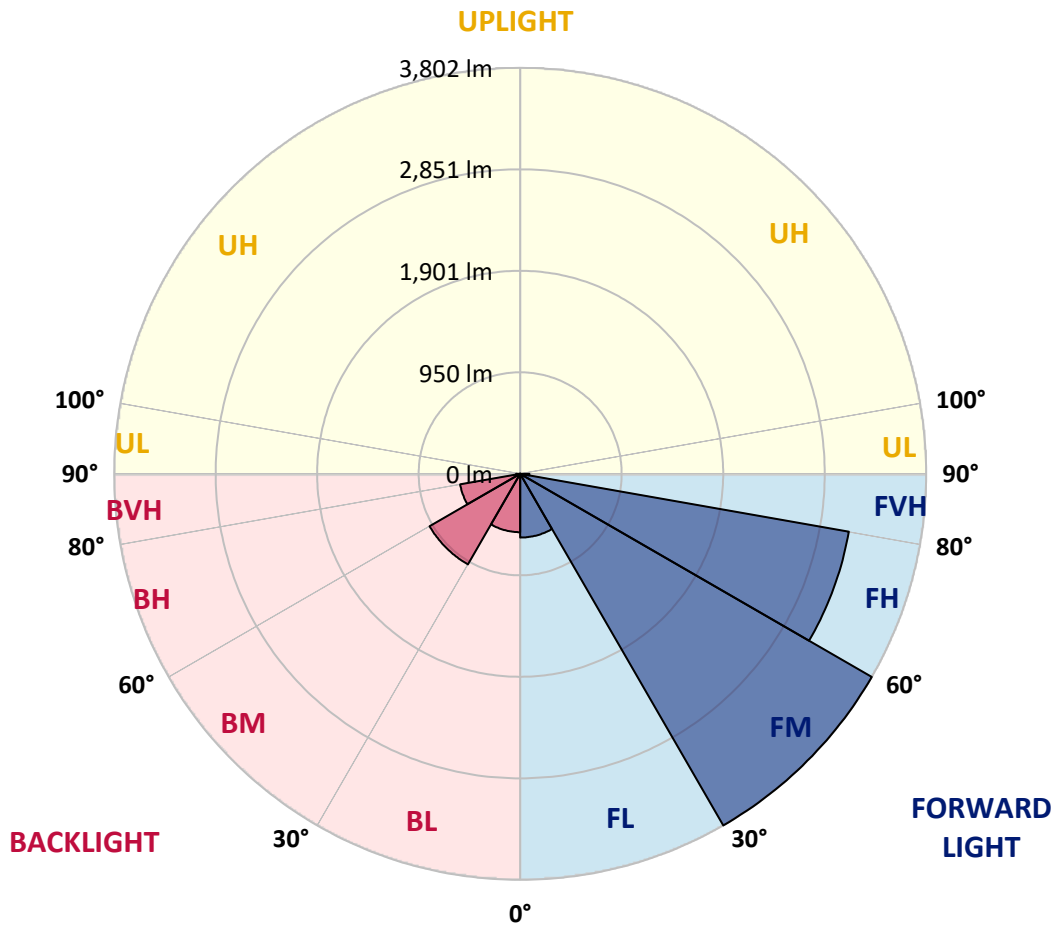
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.9	6.1			
FM (30°-60°)	3801.5	39.0			
FH (60°-80°)	3124.7	32.1			G2/5000
FVH (80°-90°)	86.3	0.9			G1/100
BL (0°-30°)	546.7	5.6	B2/1000		
BM (30°-60°)	979.6	10.1	B1/1000		
BH (60°-80°)	570.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	37.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1253.0	1252.5	1258.9	1260.9	1272.9	1281.4	1297.4	1314.3	1336.3	1338.8
5°	1180.6	1180.6	1188.1	1196.1	1211.5	1228.5	1253.0	1282.4	1320.3	1326.3
7.5°	1119.2	1123.2	1129.7	1145.2	1163.1	1187.6	1225.0	1266.9	1316.8	1326.3
10°	1069.8	1074.3	1082.3	1094.8	1121.7	1155.7	1204.6	1258.4	1325.3	1340.3
12.5°	1054.4	1058.8	1063.3	1072.8	1097.8	1137.7	1196.1	1262.4	1345.8	1360.7
15°	1090.3	1095.8	1092.3	1089.8	1102.8	1139.2	1200.1	1276.9	1371.2	1392.7
17.5°	1173.1	1175.1	1167.1	1143.7	1141.7	1161.1	1219.0	1296.9	1403.1	1426.6
20°	1306.8	1303.4	1286.9	1240.5	1214.0	1210.0	1251.5	1326.8	1436.1	1461.0
22.5°	1488.5	1484.5	1451.5	1378.2	1319.3	1280.4	1298.4	1365.7	1473.0	1500.9
25°	1715.0	1709.5	1661.1	1561.3	1470.0	1373.7	1362.2	1417.1	1518.4	1544.4
27.5°	1979.5	1975.0	1922.6	1790.9	1659.1	1501.4	1441.6	1477.5	1565.8	1595.3
30°	2263.9	2276.9	2184.1	2042.3	1875.7	1668.1	1548.4	1551.8	1627.2	1653.6
32.5°	2598.2	2620.7	2508.9	2329.3	2101.7	1849.2	1683.1	1655.6	1716.5	1738.5
35°	2929.5	2955.0	2862.2	2663.6	2401.6	2062.8	1823.8	1774.9	1835.3	1859.2
37.5°	3216.0	3249.9	3202.0	3029.3	2722.5	2320.3	2007.4	1915.1	1981.5	2011.4
40°	3442.0	3493.9	3490.4	3382.6	3100.7	2632.6	2240.4	2088.3	2163.1	2195.5
42.5°	3625.6	3670.5	3709.5	3704.0	3495.4	2987.4	2514.4	2313.3	2370.2	2407.6
45°	3752.4	3800.3	3884.1	3974.4	3875.1	3367.2	2828.3	2580.3	2632.2	2688.5
47.5°	3865.6	3920.0	4028.8	4172.0	4197.5	3748.4	3172.1	2891.1	2938.5	2996.9
50°	3875.6	3922.5	4091.2	4294.3	4426.5	4114.6	3541.3	3239.9	3284.3	3346.7
52.5°	3634.6	3708.5	4002.9	4290.8	4531.8	4421.0	3908.1	3602.7	3652.6	3727.4
55°	2821.3	2929.5	3743.9	4157.1	4494.4	4619.1	4256.8	3988.4	4052.3	4130.6
57.5°	2430.1	2477.5	2972.0	3913.5	4323.7	4670.5	4551.2	4378.1	4480.9	4566.7
60°	2184.1	2223.5	2515.9	3534.8	4099.2	4589.2	4778.8	4741.4	4919.0	5021.3
62.5°	1920.6	1958.0	2224.0	2951.5	3811.8	4453.9	4922.5	5076.7	5368.1	5479.9
65°	1659.1	1691.1	1946.0	2480.0	3446.5	4318.7	4996.8	5366.6	5783.7	5899.5
67.5°	1367.7	1394.2	1635.2	2092.2	3002.4	4133.6	5033.8	5594.6	6145.5	6244.8
70°	987.0	1007.5	1256.4	1654.6	2445.0	3815.2	5018.8	5756.3	6333.1	6412.5
72.5°	466.6	485.0	777.4	1074.3	1727.0	3195.5	4715.9	5628.1	6142.5	6103.1
75°	249.0	265.0	446.6	589.3	912.1	2190.5	3859.2	4848.1	5158.0	4966.4
77.5°	168.7	181.1	276.4	353.8	416.7	1039.9	2480.5	3356.7	3229.4	2913.1
80°	133.7	146.7	226.5	239.5	201.6	375.7	1024.9	1553.8	1116.2	892.7
82.5°	102.8	117.3	190.6	173.6	109.8	154.2	298.4	491.5	285.9	217.6
85°	62.9	78.3	149.7	110.8	61.9	70.4	101.3	136.7	87.3	72.9
87.5°	31.9	44.9	75.8	40.4	27.9	16.5	26.9	26.9	23.0	20.0
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°
1359.2	0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
1352.3	2.5°	1364.2	1374.2	1391.2	1407.1	1419.6	1431.6	1443.6	1450.1	1452.0	1460.0
1359.7	5°	1380.2	1398.7	1431.6	1462.5	1482.0	1494.0	1502.4	1507.4	1508.4	1510.9
1380.2	7.5°	1409.6	1439.1	1485.0	1515.9	1530.4	1529.4	1525.9	1513.4	1508.4	1503.9
1410.1	10°	1451.1	1490.0	1546.4	1567.8	1558.8	1534.9	1503.9	1467.5	1450.6	1434.1
1451.1	12.5°	1502.4	1551.8	1607.2	1606.2	1561.8	1500.5	1428.6	1372.7	1337.3	1311.8
1501.4	15°	1564.8	1621.7	1664.1	1630.2	1532.9	1422.6	1317.3	1244.5	1212.5	1184.6
1552.3	17.5°	1629.2	1690.1	1709.5	1622.7	1460.0	1307.3	1188.1	1130.7	1099.3	1084.3
1607.2	20°	1692.1	1752.4	1736.5	1579.8	1349.3	1176.6	1070.3	1038.9	1032.4	1035.9
1660.6	22.5°	1758.4	1812.3	1742.0	1497.0	1208.0	1042.9	984.5	985.5	1000.0	1010.4
1716.5	25°	1826.3	1862.7	1727.5	1377.2	1056.4	944.6	930.1	946.1	974.5	995.0
1779.4	27.5°	1891.7	1907.6	1696.1	1229.0	926.1	874.2	876.7	909.7	952.6	981.0
1855.7	30°	1965.5	1947.5	1635.7	1062.3	835.8	813.8	834.8	873.2	916.1	941.6
1952.0	32.5°	2048.8	1982.0	1539.9	908.2	771.9	765.4	799.9	824.8	843.8	851.3
2079.8	35°	2152.6	2030.4	1417.1	799.9	714.5	730.0	762.9	750.5	743.0	739.0
2251.4	37.5°	2287.4	2095.7	1273.4	729.5	668.1	704.6	718.0	679.1	649.7	635.2
2459.5	40°	2449.5	2191.5	1135.2	675.1	638.7	682.6	659.2	612.3	574.8	554.4
2693.5	42.5°	2629.7	2291.8	1018.9	634.2	622.2	664.6	615.7	559.9	499.5	493.0
2972.5	45°	2818.8	2395.1	939.6	602.8	614.3	649.2	590.8	500.5	457.6	484.0
3252.4	47.5°	3007.9	2489.9	891.7	579.3	610.3	631.7	568.8	467.5	437.1	475.5
3552.3	50°	3218.5	2574.8	870.2	562.4	605.8	624.7	535.9	459.1	415.7	441.1
3862.6	52.5°	3427.5	2640.6	854.3	545.4	599.3	619.2	519.9	449.1	389.7	391.2
4175.0	55°	3636.1	2683.5	836.8	522.9	584.8	607.3	518.4	438.1	370.2	363.3
4505.3	57.5°	3858.7	2708.0	815.3	498.0	559.9	576.8	516.9	429.6	364.3	352.8
4843.2	60°	4085.2	2743.9	787.4	467.5	526.4	540.4	513.5	426.6	360.8	341.3
5161.5	62.5°	4288.3	2756.4	754.0	438.6	483.5	504.5	506.0	424.1	351.3	317.9
5426.0	65°	4421.5	2702.5	695.6	405.7	437.1	467.5	491.5	415.7	334.3	300.9
5556.7	67.5°	4416.0	2548.8	604.3	363.3	392.2	426.6	470.5	401.2	313.9	279.9
5457.9	70°	4210.4	2245.4	488.5	313.9	342.8	382.7	443.6	379.7	289.4	257.0
4853.1	72.5°	3611.2	1757.4	354.8	256.0	285.4	337.3	408.7	353.8	264.5	236.5
3586.7	75°	2579.8	1112.2	240.5	196.6	222.0	285.9	365.3	323.3	241.5	237.5
1796.3	77.5°	1317.8	531.4	159.2	143.7	154.7	225.5	306.9	288.9	245.0	196.1
511.0	80°	428.6	196.1	100.3	97.8	102.8	150.2	237.5	237.0	185.6	133.2
123.7	82.5°	136.7	84.3	65.4	62.9	60.4	94.3	165.7	187.6	125.2	84.3
44.4	85°	54.4	50.4	38.4	35.4	25.4	44.4	86.8	124.7	93.3	60.9
11.5	87.5°	20.0	20.0	10.5	7.5	5.5	15.0	23.5	37.4	53.4	31.4
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>
1359.2
1464.5
1514.9
1504.9
1429.1
1305.8
1181.6
1088.8
1034.4
1012.9
1000.5
988.0
947.6
855.3
743.0
638.7
555.9
499.5
498.0
493.5
460.1
401.7
368.3
354.3
342.8
317.9
300.9
281.4
260.0
235.0
224.0
174.6
117.8
83.8
62.4
30.9
0.0

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