

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: P945982

Luminaire Tested: **GALN-SB1D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945982
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-SB1D-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10450 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

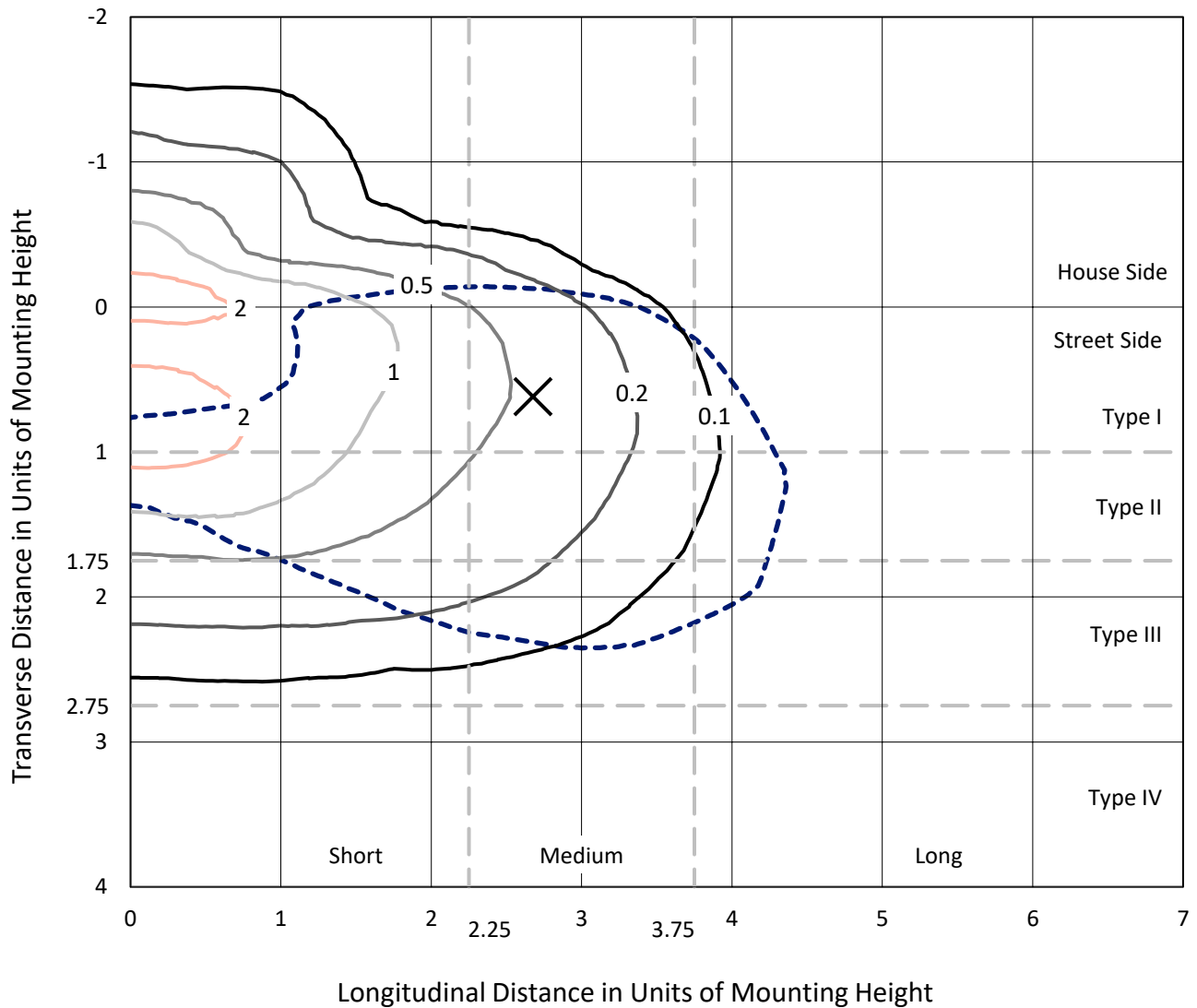
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

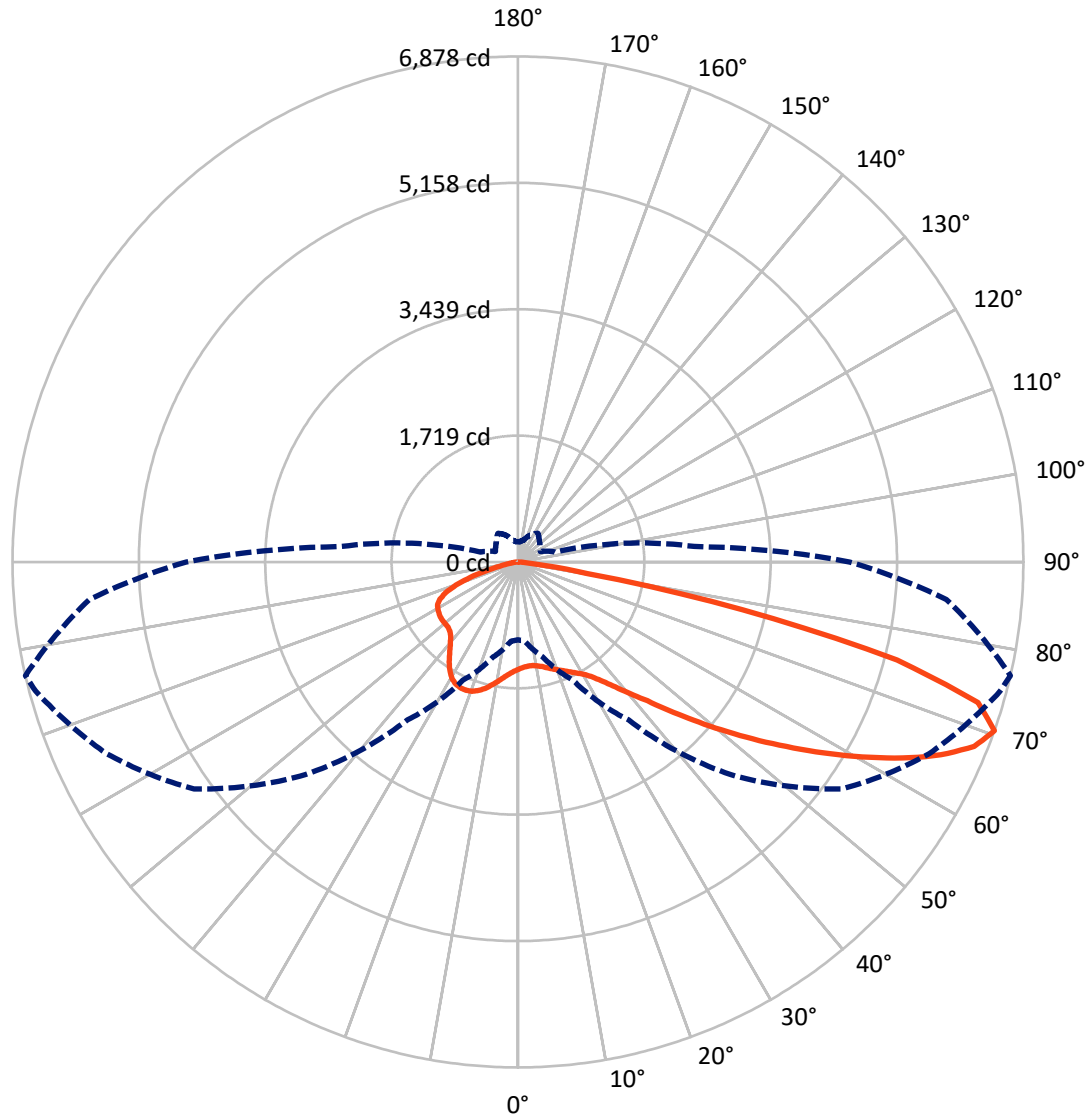
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	2288.4	0.0	2288.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8161.6	0.0	8161.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	10450.0	0.0	10450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.3
10°-20°	401.3	3.8
20°-30°	686.3	6.6
30°-40°	1103.6	10.6
40°-50°	1723.0	16.5
50°-60°	2301.5	22.0
60°-70°	2453.0	23.5
70°-80°	1510.1	14.5
80°-90°	132.3	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°	10450.0	100.0
0°-180°	10450.0	100.0

Coefficient of Utilization



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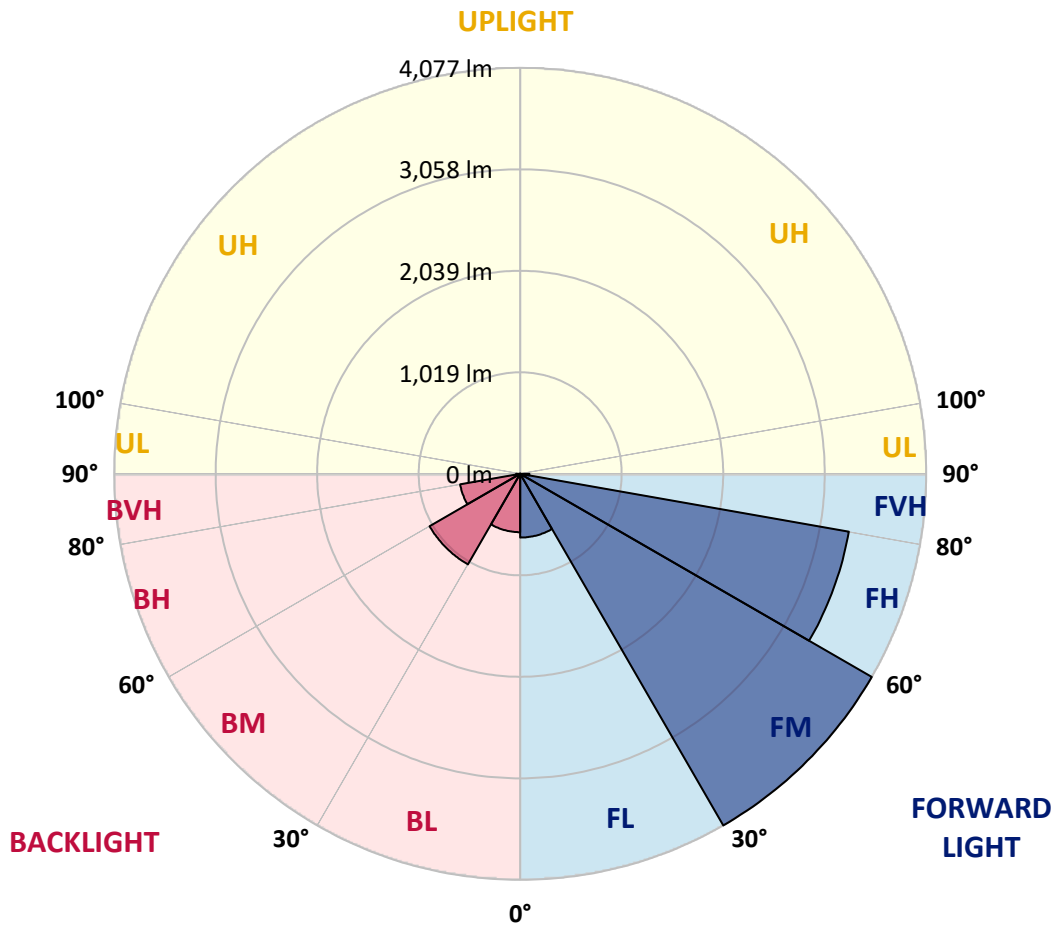
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.2	6.1			
FM (30°-60°)	4077.4	39.0			
FH (60°-80°)	3351.5	32.1			G2/5000
FVH (80°-90°)	92.5	0.9			G1/100
BL (0°-30°)	586.4	5.6	B2/1000		
BM (30°-60°)	1050.6	10.1	B2/2500		
BH (60°-80°)	611.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	39.8	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°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1343.9	1343.3	1350.3	1352.4	1365.3	1374.4	1391.5	1409.7	1433.3	1435.9
5°	1266.3	1266.3	1274.3	1282.9	1299.5	1317.6	1343.9	1375.5	1416.1	1422.5
7.5°	1200.4	1204.7	1211.7	1228.3	1247.5	1273.8	1313.9	1358.9	1412.4	1422.5
10°	1147.5	1152.3	1160.8	1174.2	1203.1	1239.5	1292.0	1349.8	1421.5	1437.5
12.5°	1130.9	1135.7	1140.5	1150.7	1177.4	1220.2	1282.9	1354.0	1443.4	1459.5
15°	1169.4	1175.3	1171.5	1168.9	1182.8	1221.8	1287.1	1369.6	1470.7	1493.7
17.5°	1258.2	1260.4	1251.8	1226.7	1224.5	1245.4	1307.5	1391.0	1505.0	1530.1
20°	1401.7	1397.9	1380.3	1330.5	1302.1	1297.8	1342.3	1423.1	1540.3	1567.1
22.5°	1596.5	1592.2	1556.9	1478.2	1415.1	1373.3	1392.6	1464.8	1579.9	1609.9
25°	1839.5	1833.6	1781.7	1674.6	1576.7	1473.4	1461.1	1520.0	1628.6	1656.4
27.5°	2123.1	2118.3	2062.1	1920.8	1779.5	1610.4	1546.2	1584.7	1679.4	1711.0
30°	2428.2	2442.1	2342.5	2190.6	2011.8	1789.2	1660.7	1664.5	1745.3	1773.6
32.5°	2786.8	2810.8	2691.0	2498.3	2254.2	1983.4	1805.2	1775.8	1841.1	1864.6
35°	3142.1	3169.4	3069.9	2856.9	2575.9	2212.5	1956.1	1903.7	1968.4	1994.1
37.5°	3449.3	3485.7	3434.3	3249.2	2920.0	2488.7	2153.1	2054.1	2125.3	2157.4
40°	3691.8	3747.4	3743.7	3628.1	3325.7	2823.7	2403.0	2239.8	2320.1	2354.9
42.5°	3888.7	3936.9	3978.6	3972.8	3749.0	3204.2	2696.8	2481.2	2542.2	2582.3
45°	4024.7	4076.0	4166.0	4262.8	4156.3	3611.5	3033.5	2767.5	2823.2	2883.6
47.5°	4146.2	4204.5	4321.2	4474.8	4502.1	4020.4	3402.2	3100.9	3151.8	3214.4
50°	4156.9	4207.2	4388.1	4605.9	4747.7	4413.2	3798.3	3475.0	3522.7	3589.6
52.5°	3898.4	3977.6	4293.3	4602.1	4860.6	4741.8	4191.6	3864.1	3917.6	3997.9
55°	3026.0	3142.1	4015.6	4458.7	4820.5	4954.3	4565.7	4277.8	4346.3	4430.3
57.5°	2606.4	2657.2	3187.6	4197.5	4637.5	5009.4	4881.5	4695.8	4806.0	4898.1
60°	2342.5	2384.8	2698.5	3791.3	4396.6	4922.2	5125.6	5085.4	5275.9	5385.7
62.5°	2060.0	2100.1	2385.4	3165.7	4088.4	4777.1	5279.7	5445.1	5757.6	5877.5
65°	1779.5	1813.8	2087.3	2659.9	3696.6	4632.1	5359.4	5756.0	6203.4	6327.6
67.5°	1467.0	1495.3	1753.8	2244.1	3220.3	4433.6	5399.0	6000.6	6591.5	6698.0
70°	1058.6	1080.6	1347.6	1774.7	2622.5	4092.1	5383.0	6174.0	6792.7	6877.8
72.5°	500.4	520.2	833.8	1152.3	1852.3	3427.4	5058.1	6036.5	6588.2	6546.0
75°	267.1	284.2	479.0	632.1	978.3	2349.5	4139.2	5200.0	5532.3	5326.8
77.5°	180.9	194.3	296.5	379.5	446.9	1115.3	2660.5	3600.3	3463.8	3124.5
80°	143.4	157.3	243.0	256.9	216.2	403.0	1099.3	1666.6	1197.2	957.5
82.5°	110.3	125.8	204.4	186.2	117.7	165.4	320.0	527.2	306.7	233.3
85°	67.4	84.0	160.6	118.8	66.4	75.5	108.6	146.6	93.7	78.1
87.5°	34.3	48.2	81.3	43.4	30.0	17.7	28.9	28.9	24.6	21.4
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°
1457.9	0°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
1450.4	2.5°	1463.2	1473.9	1492.1	1509.2	1522.6	1535.5	1548.3	1555.3	1557.4	1566.0
1458.4	5°	1480.3	1500.2	1535.5	1568.7	1589.5	1602.4	1611.5	1616.8	1617.9	1620.6
1480.3	7.5°	1511.9	1543.5	1592.7	1625.9	1641.4	1640.4	1636.6	1623.2	1617.9	1613.1
1512.5	10°	1556.3	1598.1	1658.6	1681.6	1671.9	1646.3	1613.1	1574.0	1555.8	1538.1
1556.3	12.5°	1611.5	1664.5	1723.9	1722.8	1675.2	1609.3	1532.3	1472.3	1434.3	1407.0
1610.4	15°	1678.4	1739.4	1784.9	1748.5	1644.1	1525.8	1412.9	1334.8	1300.5	1270.6
1665.0	17.5°	1747.4	1812.7	1833.6	1740.5	1566.0	1402.2	1274.3	1212.8	1179.0	1163.0
1723.9	20°	1814.8	1879.6	1862.5	1694.4	1447.2	1262.0	1148.0	1114.3	1107.3	1111.1
1781.1	22.5°	1886.0	1943.8	1868.4	1605.6	1295.7	1118.6	1055.9	1057.0	1072.5	1083.8
1841.1	25°	1958.8	1997.9	1852.8	1477.1	1133.0	1013.1	997.6	1014.7	1045.2	1067.2
1908.5	27.5°	2028.9	2046.0	1819.1	1318.2	993.3	937.7	940.3	975.7	1021.7	1052.2
1990.4	30°	2108.1	2088.9	1754.4	1139.4	896.5	872.9	895.4	936.6	982.6	1009.9
2093.7	32.5°	2197.5	2125.8	1651.6	974.1	827.9	821.0	857.9	884.7	905.0	913.0
2230.7	35°	2308.8	2177.7	1520.0	857.9	766.4	783.0	818.3	804.9	796.9	792.6
2414.8	37.5°	2453.3	2247.8	1365.8	782.5	716.6	755.7	770.1	728.4	696.8	681.3
2638.0	40°	2627.3	2350.6	1217.6	724.1	685.0	732.1	707.0	656.7	616.5	594.6
2889.0	42.5°	2820.5	2458.1	1092.9	680.2	667.4	712.9	660.4	600.5	535.7	528.8
3188.2	45°	3023.3	2568.9	1007.8	646.5	658.8	696.3	633.7	536.8	490.8	519.1
3488.4	47.5°	3226.2	2670.6	956.4	621.4	654.5	677.6	610.1	501.5	468.8	510.0
3810.1	50°	3452.0	2761.6	933.4	603.2	649.7	670.1	574.8	492.4	445.8	473.1
4142.9	52.5°	3676.3	2832.3	916.3	585.0	642.8	664.2	557.7	481.7	418.0	419.6
4478.0	55°	3900.0	2878.3	897.5	560.9	627.2	651.3	556.1	469.9	397.1	389.6
4832.3	57.5°	4138.7	2904.5	874.5	534.1	600.5	618.7	554.5	460.8	390.7	378.4
5194.6	60°	4381.6	2943.0	844.5	501.5	564.6	579.6	550.7	457.6	386.9	366.1
5536.1	62.5°	4599.5	2956.4	808.7	470.4	518.6	541.1	542.7	454.9	376.8	340.9
5819.7	65°	4742.4	2898.6	746.1	435.1	468.8	501.5	527.2	445.8	358.6	322.7
5959.9	67.5°	4736.5	2733.8	648.1	389.6	420.7	457.6	504.7	430.3	336.6	300.2
5854.0	70°	4516.0	2408.4	524.0	336.6	367.7	410.5	475.8	407.3	310.4	275.6
5205.3	72.5°	3873.2	1885.0	380.5	274.6	306.1	361.8	438.3	379.5	283.7	253.7
3847.0	75°	2767.0	1192.9	258.0	210.9	238.2	306.7	391.8	346.8	259.0	254.8
1926.7	77.5°	1413.4	570.0	170.7	154.1	165.9	241.9	329.1	309.9	262.8	210.3
548.0	80°	459.7	210.3	107.6	104.9	110.3	161.1	254.8	254.2	199.1	142.9
132.7	82.5°	146.6	90.4	70.1	67.4	64.8	101.2	177.7	201.2	134.3	90.4
47.6	85°	58.3	54.1	41.2	38.0	27.3	47.6	93.1	133.8	100.1	65.3
12.3	87.5°	21.4	21.4	11.2	8.0	5.9	16.1	25.2	40.1	57.3	33.7
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>
1457.9
1570.8
1624.9
1614.1
1532.8
1400.6
1267.3
1167.8
1109.5
1086.4
1073.1
1059.7
1016.3
917.3
796.9
685.0
596.2
535.7
534.1
529.3
493.4
430.8
395.0
380.0
367.7
340.9
322.7
301.8
278.8
252.1
240.3
187.3
126.3
89.9
66.9
33.2
0.0

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