

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: P946329

Luminaire Tested: **GALN-SB2A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946329
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 8767 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

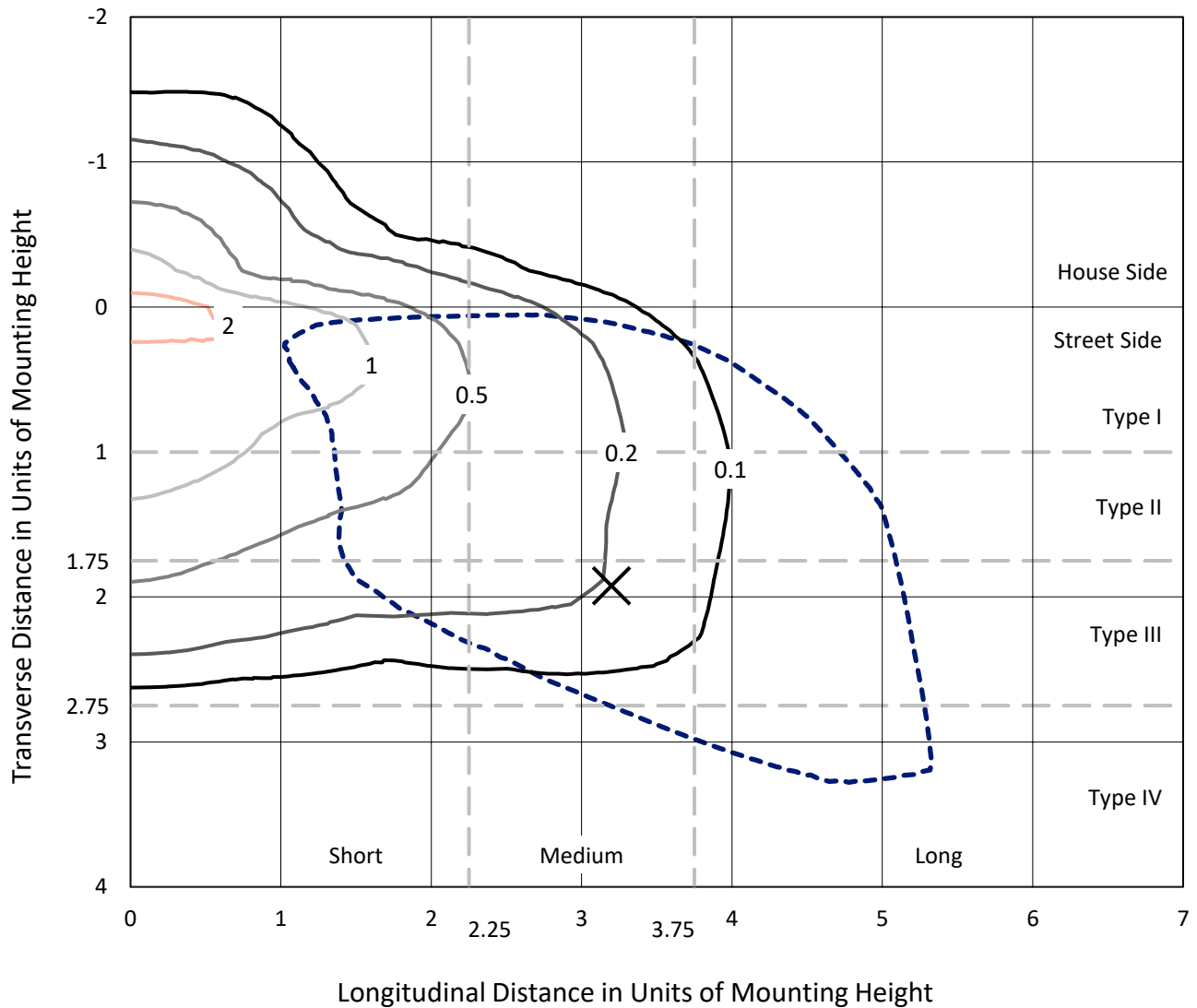
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

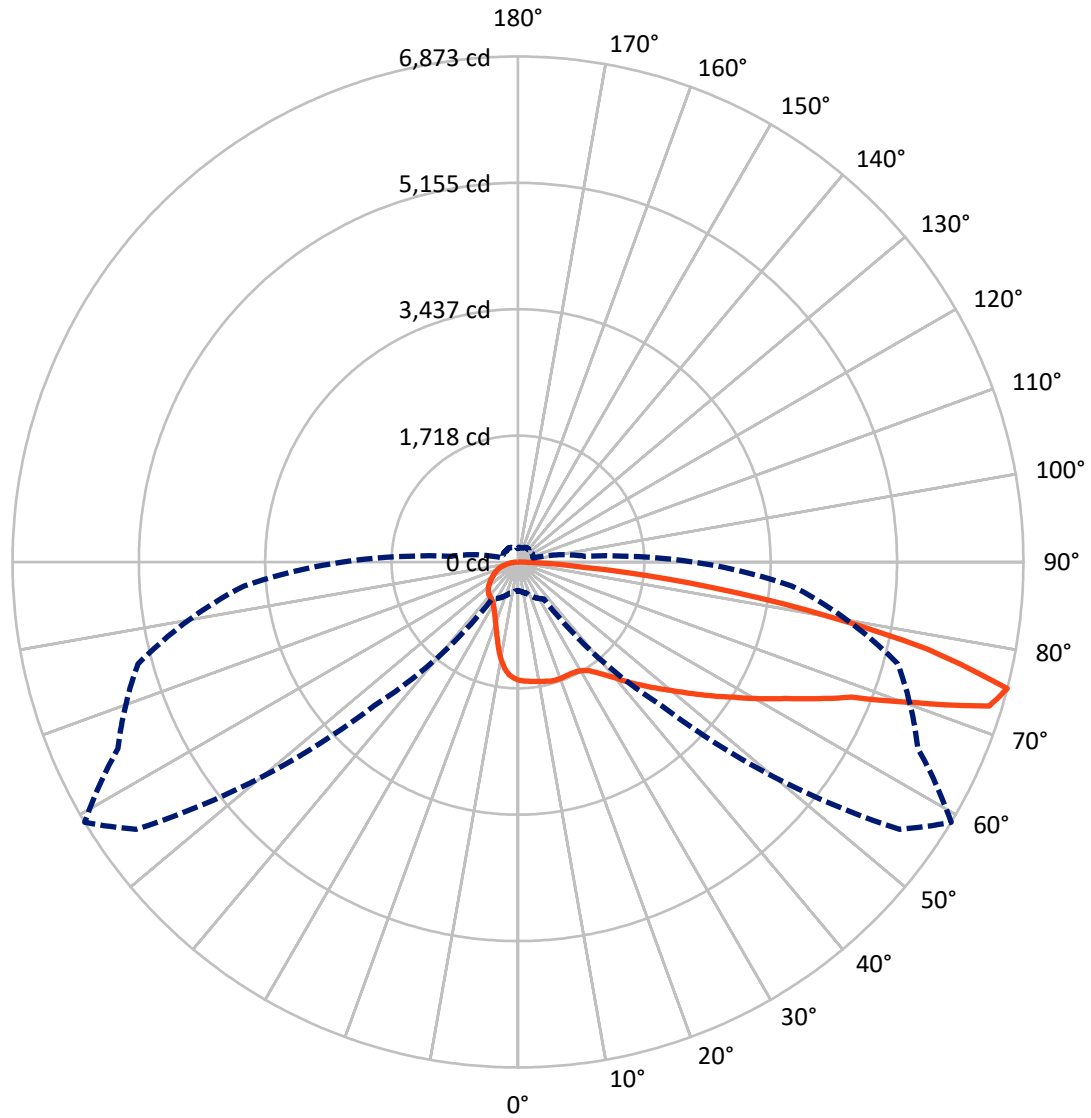
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type 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	1644.3	0.0	1644.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7122.7	0.0	7122.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	8767.0	0.0	8767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.6
10°-20°	368.8	4.2
20°-30°	560.2	6.4
30°-40°	832.7	9.5
40°-50°	1238.4	14.1
50°-60°	1681.0	19.2
60°-70°	2052.2	23.4
70°-80°	1610.5	18.4
80°-90°	279.0	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°	8767.0	100.0
0°-180°	8767.0	100.0

Coefficient of Utilization



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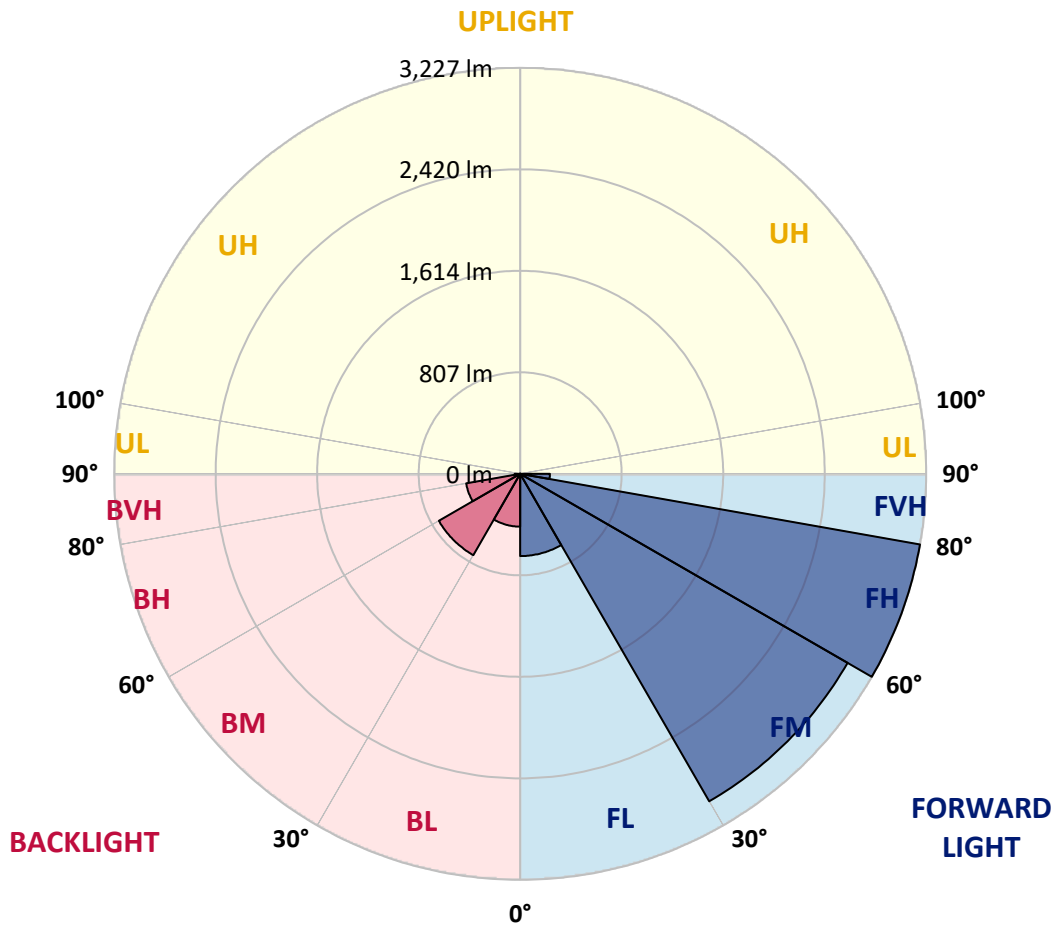
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.7	7.5			
FM (30°-60°)	3005.7	34.3			
FH (60°-80°)	3227.1	36.8			G2/5000
FVH (80°-90°)	236.3	2.7			G3/500
BL (0°-30°)	419.6	4.8	B1/500		
BM (30°-60°)	746.4	8.5	B1/1000		
BH (60°-80°)	435.6	5.0	B1/500		G1/500
BVH (80°-90°)	42.7	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2
2.5°	1622.8	1617.2	1622.8	1620.5	1619.5	1617.7	1618.1	1621.4	1619.5	1621.9
5°	1612.0	1608.7	1614.4	1612.9	1619.1	1620.0	1626.1	1629.9	1632.3	1632.7
7.5°	1594.1	1590.8	1598.8	1605.4	1618.6	1622.4	1635.1	1641.2	1644.5	1650.2
10°	1528.5	1527.1	1546.9	1571.9	1603.0	1622.4	1641.7	1652.1	1657.3	1672.4
12.5°	1412.5	1414.4	1440.3	1488.4	1550.7	1612.9	1649.3	1664.3	1672.4	1691.2
15°	1301.7	1301.2	1329.5	1380.9	1468.1	1571.4	1653.0	1679.0	1692.6	1720.5
17.5°	1237.5	1235.6	1255.4	1294.6	1375.7	1507.8	1643.6	1687.0	1716.2	1751.1
20°	1225.7	1222.0	1232.3	1251.7	1309.2	1438.0	1619.1	1687.0	1735.1	1780.4
22.5°	1268.7	1262.5	1258.3	1255.9	1281.4	1380.4	1591.2	1681.3	1762.9	1822.3
25°	1355.0	1345.5	1323.8	1302.6	1295.1	1354.5	1566.7	1679.9	1804.4	1878.9
27.5°	1494.6	1482.8	1438.9	1388.0	1342.2	1367.7	1555.9	1688.4	1850.2	1938.8
30°	1667.6	1654.9	1599.7	1521.4	1439.4	1416.7	1569.5	1713.4	1908.6	2018.5
32.5°	1822.8	1808.7	1761.5	1681.8	1571.0	1501.6	1612.9	1761.0	2000.6	2129.4
35°	1960.5	1944.0	1901.6	1828.0	1732.3	1621.0	1691.2	1845.4	2131.2	2309.5
37.5°	2095.4	2076.1	2029.8	1952.0	1885.1	1779.9	1799.2	1953.9	2304.8	2528.3
40°	2246.3	2218.5	2162.4	2085.5	2020.4	1966.2	1941.2	2086.9	2481.2	2772.6
42.5°	2392.5	2366.1	2299.1	2233.6	2152.0	2136.4	2105.8	2242.5	2674.1	3041.0
45°	2550.0	2518.4	2437.3	2354.3	2302.9	2249.6	2265.2	2398.2	2863.2	3314.5
47.5°	2697.7	2662.3	2566.5	2474.1	2445.8	2344.9	2411.4	2569.4	3059.9	3591.8
50°	2777.4	2742.5	2662.8	2579.3	2557.1	2462.3	2569.9	2757.6	3266.0	3868.2
52.5°	2843.9	2806.1	2701.9	2655.7	2649.1	2590.1	2765.1	2972.6	3472.1	4112.5
55°	2914.6	2872.6	2739.6	2698.1	2728.3	2733.5	2996.7	3216.4	3689.9	4350.7
57.5°	2996.2	2942.9	2775.9	2734.0	2805.7	2901.4	3262.7	3469.2	3904.1	4571.4
60°	3073.1	3019.3	2845.7	2791.0	2889.1	3096.2	3567.8	3775.3	4146.5	4768.1
62.5°	3088.2	3043.8	2901.4	2900.9	3002.3	3323.5	3929.1	4084.2	4358.2	4962.4
65°	2826.9	2799.1	2714.6	2896.7	3164.6	3650.8	4331.3	4479.4	4627.5	5132.2
67.5°	2151.5	2155.3	2149.2	2500.5	3033.5	4121.0	4913.8	4902.5	4960.0	5322.7
70°	983.8	1006.0	1150.3	1726.1	2430.3	4175.2	5876.8	5730.2	5377.4	5569.3
72.5°	531.5	548.5	607.4	836.2	1461.1	3712.1	6596.5	6700.8	5932.5	5735.4
75°	390.0	399.5	440.5	531.5	613.6	2759.0	6338.6	6873.4	6001.8	5348.2
77.5°	291.9	296.2	329.7	421.2	314.1	1454.5	5064.7	5692.4	5137.8	4394.1
80°	211.8	216.5	241.5	316.0	220.2	532.0	3477.7	3995.6	3518.7	2800.9
82.5°	146.2	148.1	158.9	215.1	153.7	206.6	1973.3	2343.0	1964.3	982.9
85°	88.2	90.6	95.3	125.5	87.2	98.1	851.7	881.0	587.2	234.9
87.5°	36.3	38.7	42.4	52.8	34.4	27.4	140.5	176.4	109.9	68.9
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°
1609.2	0°	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2	1609.2
1613.9	2.5°	1611.5	1608.2	1599.3	1587.0	1575.7	1561.5	1555.4	1550.2	1545.5	1536.5
1626.6	5°	1621.4	1612.5	1588.4	1557.3	1521.9	1483.2	1445.5	1419.6	1397.4	1380.9
1641.2	7.5°	1636.5	1619.5	1575.7	1512.0	1430.9	1347.9	1272.9	1219.6	1179.5	1164.9
1662.0	10°	1652.1	1631.8	1555.4	1443.2	1303.1	1175.3	1075.8	1021.1	989.0	978.6
1686.5	12.5°	1670.5	1640.8	1523.8	1347.4	1160.2	1020.1	933.3	901.3	884.8	879.1
1716.7	15°	1697.4	1648.3	1476.2	1227.6	1023.9	906.9	850.8	828.6	820.1	819.7
1747.8	17.5°	1717.6	1649.7	1402.1	1099.3	919.2	838.5	792.3	783.8	789.5	798.0
1778.5	20°	1740.3	1637.0	1305.0	982.4	845.6	778.6	759.3	765.0	778.6	790.9
1819.0	22.5°	1756.3	1613.9	1187.5	891.4	781.9	744.2	743.3	755.1	762.6	768.7
1866.7	25°	1770.5	1574.7	1063.0	815.0	729.6	723.5	733.8	730.1	724.9	730.1
1914.3	27.5°	1780.8	1513.0	951.7	748.0	692.8	709.3	703.2	694.7	694.2	697.1
1970.4	30°	1777.5	1430.4	860.2	684.3	666.9	682.9	668.3	666.9	665.5	666.9
2054.8	32.5°	1777.5	1336.6	790.0	640.5	650.4	644.2	642.8	639.5	633.9	633.4
2169.4	35°	1787.4	1242.7	729.6	616.9	636.7	622.1	623.0	615.0	603.2	597.5
2321.3	37.5°	1807.7	1167.3	669.7	605.6	612.6	612.2	608.4	594.7	574.0	556.0
2510.9	40°	1856.8	1145.1	628.7	600.4	601.3	607.0	597.1	570.7	523.5	494.3
2703.3	42.5°	1933.6	1182.3	619.7	587.6	593.8	599.4	580.1	518.8	485.3	467.8
2905.2	45°	2031.3	1247.4	639.0	569.2	575.8	585.8	528.2	499.0	483.9	484.4
3105.1	47.5°	2154.8	1315.8	674.9	553.2	549.9	555.6	493.8	475.9	455.1	460.3
3297.1	50°	2297.7	1385.1	708.8	531.5	521.1	502.7	471.6	454.6	428.2	416.0
3482.4	52.5°	2452.4	1452.1	722.5	505.1	490.0	468.8	456.5	435.8	403.7	383.4
3657.4	55°	2599.1	1513.0	707.4	473.5	458.9	442.4	440.5	427.8	393.3	365.0
3813.0	57.5°	2737.7	1563.9	669.7	441.4	427.3	417.4	430.1	424.0	380.6	344.3
3960.2	60°	2855.2	1598.8	615.0	408.9	399.0	393.8	413.1	411.3	362.7	322.1
4092.2	62.5°	2948.6	1612.5	554.6	377.8	375.4	366.0	389.6	389.6	340.0	300.4
4208.3	65°	3021.7	1599.3	493.3	347.1	351.8	337.7	360.8	358.0	316.0	281.1
4341.7	67.5°	3086.3	1555.9	425.4	316.9	327.8	309.9	330.6	324.0	289.6	261.7
4457.3	70°	3115.0	1454.9	348.1	286.7	299.9	282.5	300.4	288.2	259.9	241.0
4330.4	72.5°	2883.9	1209.2	274.0	255.1	266.5	252.3	267.9	253.7	227.8	219.3
3739.5	75°	2385.9	907.4	210.8	220.7	229.2	218.4	228.7	218.4	194.8	200.9
2762.3	77.5°	1732.7	612.6	161.3	184.4	188.2	182.5	191.5	179.7	158.5	157.0
1376.7	80°	861.6	358.9	126.4	145.7	144.3	140.5	150.9	145.3	127.3	134.9
371.6	82.5°	249.5	153.7	92.0	102.3	99.5	100.5	108.0	110.8	166.0	164.6
115.5	85°	78.3	60.4	55.2	57.1	54.2	55.7	63.7	126.4	117.0	68.4
35.8	87.5°	20.3	20.8	13.7	14.6	15.1	17.9	20.3	76.9	36.8	24.1
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°
1609.2
1532.3
1367.2
1139.4
962.6
880.5
821.6
801.3
795.1
772.0
733.4
701.8
672.1
639.5
603.2
562.2
498.0
467.8
486.7
473.5
419.3
383.0
365.0
342.4
320.7
299.0
279.2
259.9
237.2
212.2
183.5
150.0
133.5
168.4
74.0
25.5
0.0

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