

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: P946371

Luminaire Tested: **GALN-SB2A-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946371
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-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 9276 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

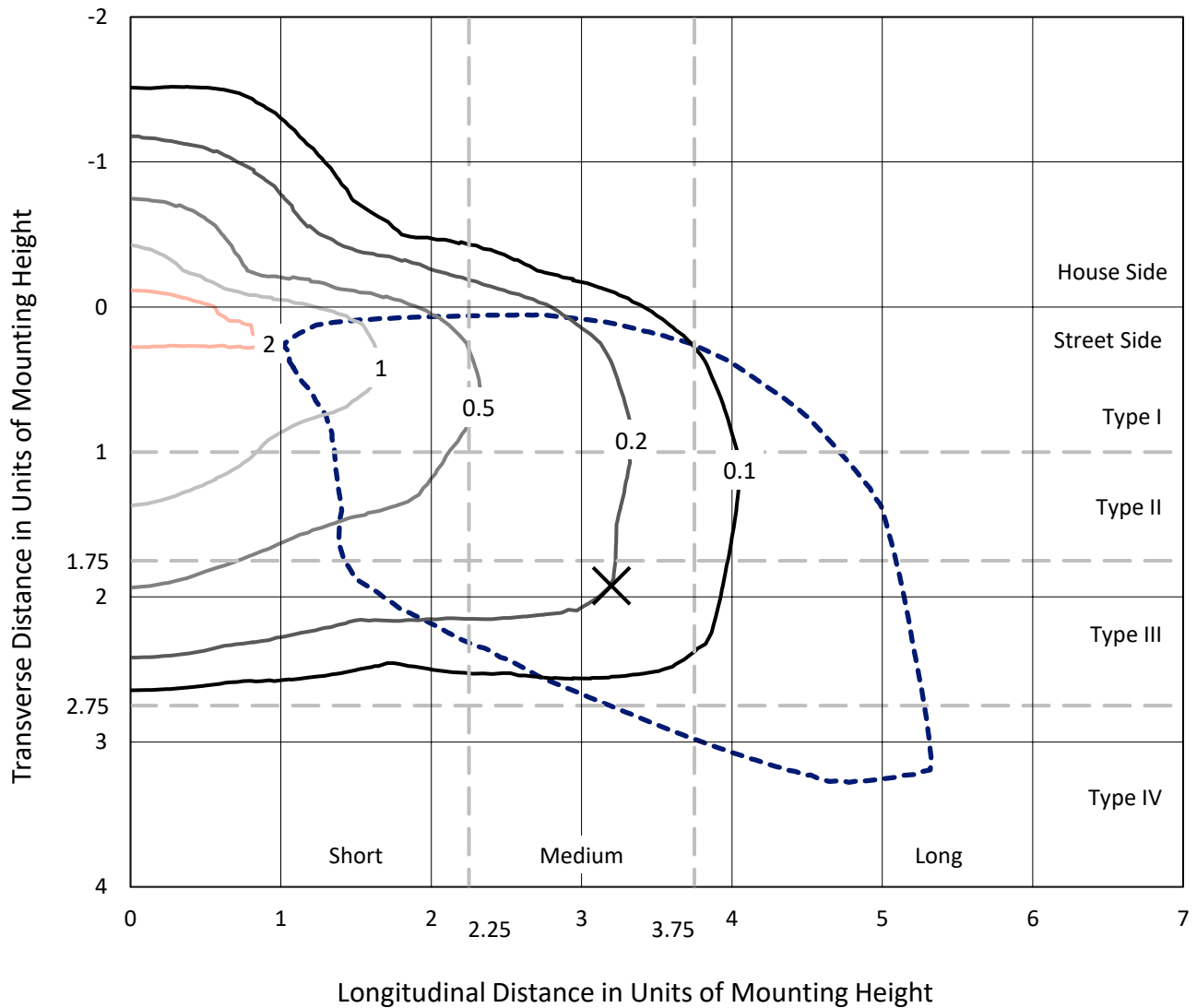
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

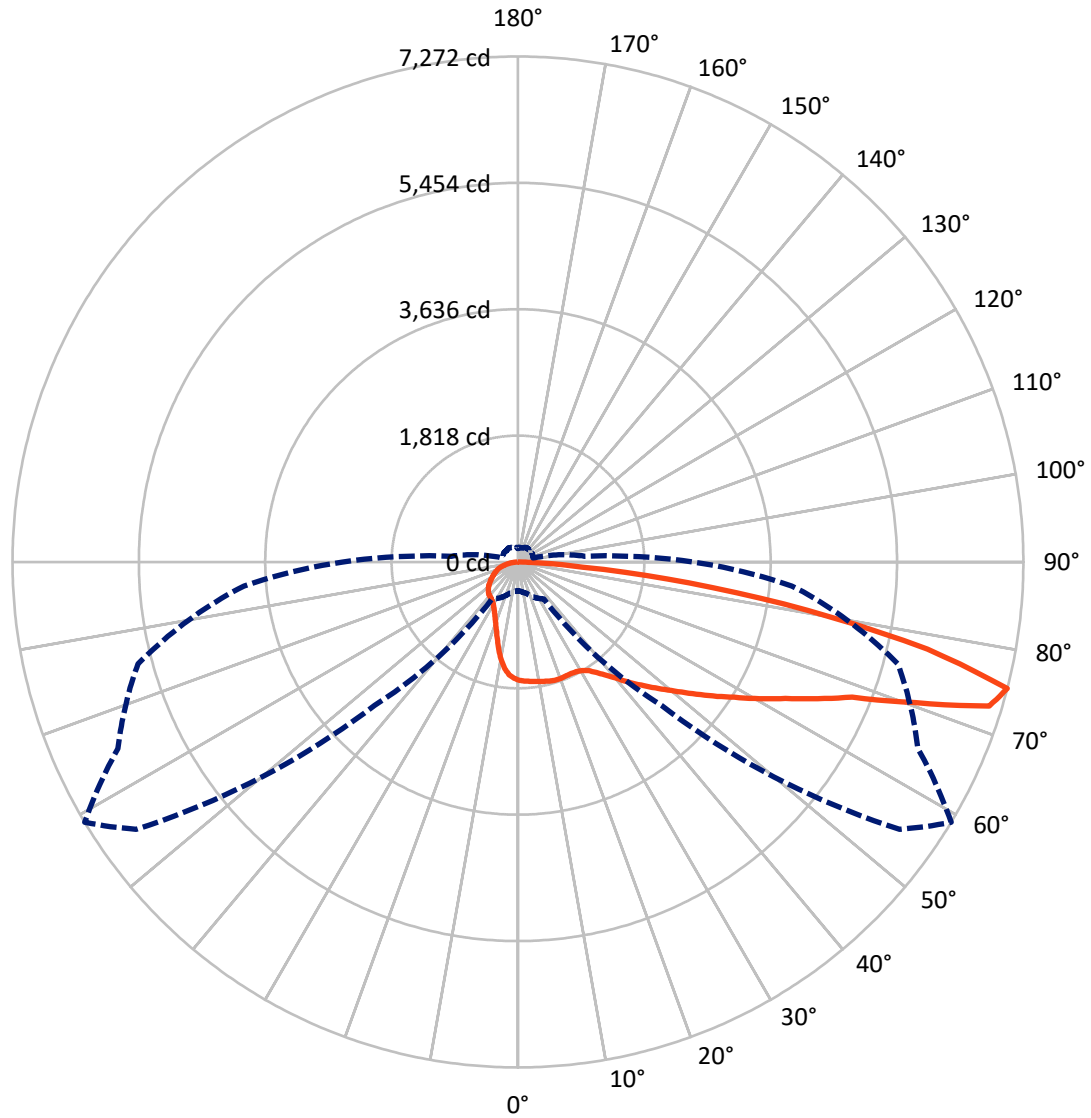
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1739.8	0.0	1739.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7536.2	0.0	7536.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	9276.0	0.0	9276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.6
10°-20°	390.2	4.2
20°-30°	592.7	6.4
30°-40°	881.1	9.5
40°-50°	1310.3	14.1
50°-60°	1778.6	19.2
60°-70°	2171.3	23.4
70°-80°	1704.0	18.4
80°-90°	295.2	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°	9276.0	100.0
0°-180°	9276.0	100.0

Coefficient of Utilization



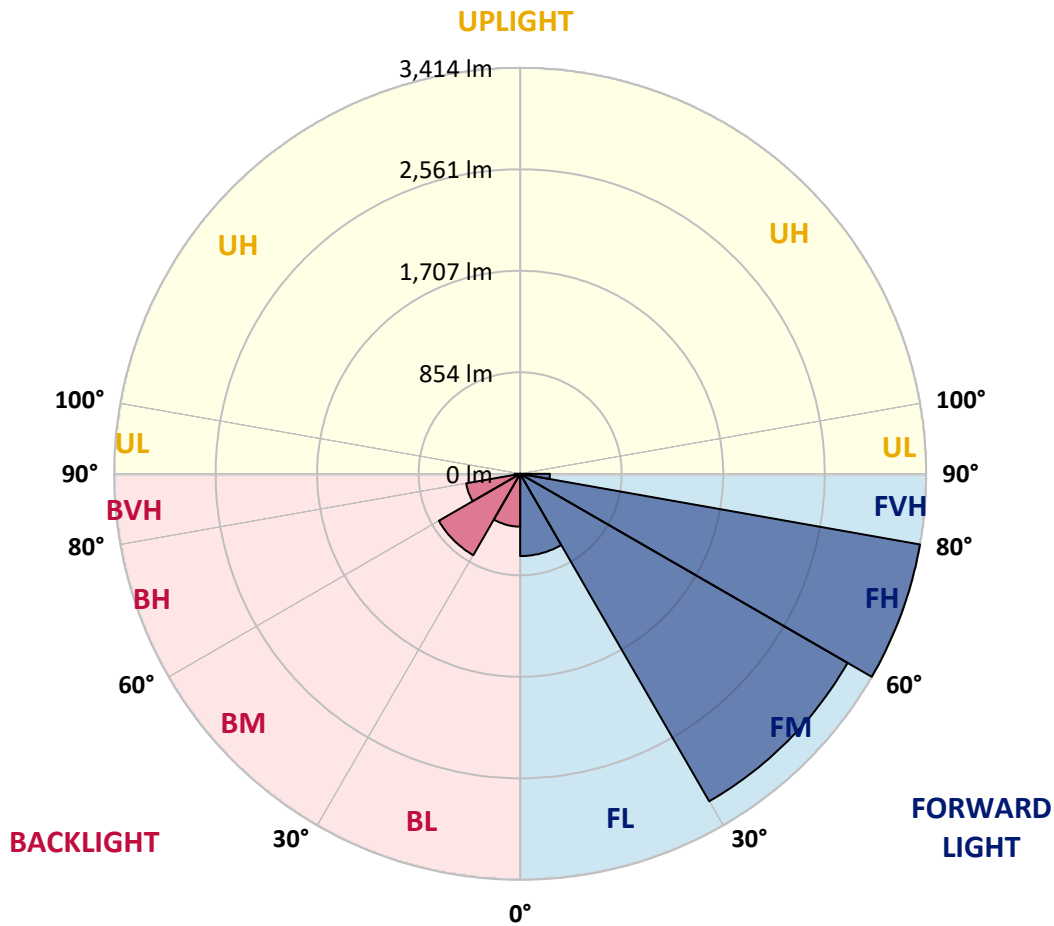
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.6	7.5			
FM (30°-60°)	3180.2	34.3			
FH (60°-80°)	3414.4	36.8			G2/5000
FVH (80°-90°)	250.0	2.7			G3/500
BL (0°-30°)	444.0	4.8	B1/500		
BM (30°-60°)	789.7	8.5	B1/1000		
BH (60°-80°)	460.9	5.0	B1/500		G1/500
BVH (80°-90°)	45.2	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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1717.1	1711.1	1717.1	1714.6	1713.6	1711.6	1712.1	1715.6	1713.6	1716.1
5°	1705.6	1702.1	1708.1	1706.6	1713.1	1714.1	1720.6	1724.5	1727.0	1727.5
7.5°	1686.6	1683.1	1691.6	1698.6	1712.6	1716.6	1730.0	1736.5	1740.0	1746.0
10°	1617.3	1615.8	1636.7	1663.2	1696.1	1716.6	1737.0	1748.0	1753.5	1769.5
12.5°	1494.5	1496.5	1523.9	1574.8	1640.7	1706.6	1745.0	1761.0	1769.5	1789.4
15°	1377.2	1376.7	1406.7	1461.1	1553.4	1662.7	1749.0	1776.4	1790.9	1820.4
17.5°	1309.4	1307.4	1328.3	1369.8	1455.6	1595.3	1739.0	1784.9	1815.9	1852.8
20°	1296.9	1292.9	1303.9	1324.3	1385.2	1521.5	1713.1	1784.9	1835.8	1883.7
22.5°	1342.3	1335.8	1331.3	1328.8	1355.8	1460.6	1683.6	1778.9	1865.3	1928.1
25°	1433.6	1423.6	1400.7	1378.2	1370.3	1433.1	1657.7	1777.4	1909.2	1988.0
27.5°	1581.3	1568.9	1522.5	1468.6	1420.2	1447.1	1646.2	1786.4	1957.6	2051.4
30°	1764.5	1751.0	1692.6	1609.8	1522.9	1499.0	1660.7	1812.9	2019.5	2135.7
32.5°	1928.6	1913.7	1863.8	1779.4	1662.2	1588.8	1706.6	1863.3	2116.8	2253.0
35°	2074.3	2056.9	2012.0	1934.1	1832.8	1715.1	1789.4	1952.6	2255.0	2443.6
37.5°	2217.1	2196.6	2147.7	2065.4	1994.5	1883.2	1903.7	2067.4	2438.6	2675.1
40°	2376.7	2347.3	2287.9	2206.6	2137.7	2080.3	2053.9	2208.1	2625.2	2933.6
42.5°	2531.4	2503.5	2432.6	2363.3	2276.9	2260.5	2228.0	2372.7	2829.3	3217.6
45°	2698.1	2664.7	2578.8	2491.0	2436.6	2380.2	2396.7	2537.4	3029.4	3507.0
47.5°	2854.3	2816.9	2715.6	2617.8	2587.8	2481.0	2551.4	2718.6	3237.5	3800.4
50°	2938.6	2901.7	2817.4	2729.0	2705.6	2605.3	2719.1	2917.7	3455.6	4092.8
52.5°	3009.0	2969.1	2858.8	2809.9	2802.9	2740.5	2925.6	3145.2	3673.6	4351.3
55°	3083.8	3039.4	2898.7	2854.8	2886.7	2892.2	3170.6	3403.2	3904.2	4603.3
57.5°	3170.1	3113.8	2937.1	2892.7	2968.6	3069.9	3452.1	3670.6	4130.7	4836.8
60°	3251.5	3194.6	3011.0	2953.1	3056.9	3275.9	3774.9	3994.5	4387.2	5044.9
62.5°	3267.5	3220.5	3069.9	3069.4	3176.6	3516.5	4157.2	4321.3	4611.3	5250.5
65°	2991.0	2961.6	2872.2	3064.9	3348.3	3862.8	4582.8	4739.5	4896.2	5430.1
67.5°	2276.4	2280.4	2273.9	2645.7	3209.6	4360.3	5199.1	5187.1	5248.0	5631.7
70°	1040.9	1064.4	1217.1	1826.3	2571.3	4417.6	6218.0	6062.9	5689.6	5892.7
72.5°	562.4	580.3	642.7	884.7	1545.9	3927.6	6979.5	7089.8	6276.9	6068.3
75°	412.7	422.7	466.1	562.4	649.2	2919.2	6706.6	7272.4	6350.3	5658.7
77.5°	308.9	313.4	348.8	445.6	332.3	1538.9	5358.8	6022.9	5436.1	4649.2
80°	224.1	229.0	255.5	334.3	233.0	562.9	3679.6	4227.5	3723.0	2963.6
82.5°	154.7	156.7	168.2	227.5	162.7	218.6	2087.8	2479.0	2078.3	1039.9
85°	93.3	95.8	100.8	132.7	92.3	103.8	901.2	932.1	621.3	248.5
87.5°	38.4	40.9	44.9	55.9	36.4	28.9	148.7	186.6	116.3	72.9
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°
1702.6	0°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
1707.6	2.5°	1705.1	1701.6	1692.1	1679.1	1667.2	1652.2	1645.7	1640.2	1635.2	1625.7
1721.1	5°	1715.6	1706.1	1680.6	1647.7	1610.3	1569.4	1529.4	1502.0	1478.5	1461.1
1736.5	7.5°	1731.5	1713.6	1667.2	1599.8	1514.0	1426.1	1346.8	1290.4	1248.0	1232.5
1758.5	10°	1748.0	1726.5	1645.7	1526.9	1378.7	1243.5	1138.2	1080.3	1046.4	1035.4
1784.4	12.5°	1767.5	1736.0	1612.3	1425.6	1227.5	1079.3	987.5	953.6	936.1	930.1
1816.4	15°	1795.9	1744.0	1561.9	1298.9	1083.3	959.6	900.2	876.7	867.8	867.3
1849.3	17.5°	1817.4	1745.5	1483.5	1163.2	972.6	887.2	838.3	829.3	835.3	844.3
1881.7	20°	1841.3	1732.0	1380.7	1039.4	894.7	823.8	803.4	809.4	823.8	836.8
1924.6	22.5°	1858.3	1707.6	1256.5	943.1	827.3	787.4	786.4	798.9	806.9	813.4
1975.0	25°	1873.2	1666.2	1124.7	862.3	772.0	765.5	776.4	772.5	767.0	772.5
2025.4	27.5°	1884.2	1600.8	1007.0	791.4	733.0	750.5	744.0	735.0	734.5	737.5
2084.8	30°	1880.7	1513.5	910.2	724.0	705.6	722.6	707.1	705.6	704.1	705.6
2174.1	32.5°	1880.7	1414.2	835.8	677.6	688.1	681.6	680.1	676.6	670.7	670.2
2295.4	35°	1891.2	1314.9	772.0	652.7	673.7	658.2	659.2	650.7	638.2	632.2
2456.1	37.5°	1912.7	1235.0	708.6	640.7	648.2	647.7	643.7	629.2	607.3	588.3
2656.7	40°	1964.6	1211.6	665.2	635.2	636.2	642.2	631.7	603.8	553.9	523.0
2860.3	42.5°	2045.9	1251.0	655.7	621.8	628.2	634.2	613.8	548.9	513.5	495.0
3073.8	45°	2149.2	1319.9	676.1	602.3	609.3	619.8	558.9	527.9	512.0	512.5
3285.4	47.5°	2279.9	1392.2	714.1	585.3	581.8	587.8	522.5	503.5	481.5	487.0
3488.5	50°	2431.1	1465.6	750.0	562.4	551.4	531.9	499.0	481.0	453.1	440.1
3684.6	52.5°	2594.8	1536.4	764.5	534.4	518.5	496.0	483.0	461.1	427.1	405.7
3869.7	55°	2750.0	1600.8	748.5	501.0	485.5	468.1	466.1	452.6	416.2	386.2
4034.4	57.5°	2896.7	1654.7	708.6	467.1	452.1	441.6	455.1	448.6	402.7	364.3
4190.1	60°	3020.9	1691.6	650.7	432.6	422.2	416.7	437.1	435.1	383.7	340.8
4329.8	62.5°	3119.8	1706.1	586.8	399.7	397.2	387.2	412.2	412.2	359.8	317.9
4452.6	65°	3197.1	1692.1	522.0	367.3	372.3	357.3	381.7	378.7	334.3	297.4
4593.8	67.5°	3265.5	1646.2	450.1	335.3	346.8	327.8	349.8	342.8	306.4	276.9
4716.1	70°	3295.9	1539.4	368.3	303.4	317.4	298.9	317.9	304.9	274.9	255.0
4581.8	72.5°	3051.4	1279.4	289.9	270.0	281.9	267.0	283.4	268.5	241.0	232.0
3956.6	75°	2524.4	960.1	223.1	233.5	242.5	231.0	242.0	231.0	206.1	212.6
2922.6	77.5°	1833.3	648.2	170.7	195.1	199.1	193.1	202.6	190.1	167.7	166.2
1456.6	80°	911.7	379.7	133.7	154.2	152.7	148.7	159.7	153.7	134.7	142.7
393.2	82.5°	264.0	162.7	97.3	108.3	105.3	106.3	114.3	117.3	175.6	174.2
122.3	85°	82.8	63.9	58.4	60.4	57.4	58.9	67.4	133.7	123.8	72.4
37.9	87.5°	21.5	22.0	14.5	15.5	16.0	19.0	21.5	81.3	38.9	25.4
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>
1702.6
1621.3
1446.6
1205.6
1018.5
931.6
869.3
847.8
841.3
816.9
775.9
742.5
711.1
676.6
638.2
594.8
526.9
495.0
515.0
501.0
443.6
405.2
386.2
362.3
339.3
316.4
295.4
274.9
251.0
224.6
194.1
158.7
141.2
178.1
78.3
26.9
0.0

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