

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: P945972

Luminaire Tested: **GALN-SB1D-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945972  
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-SB1D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

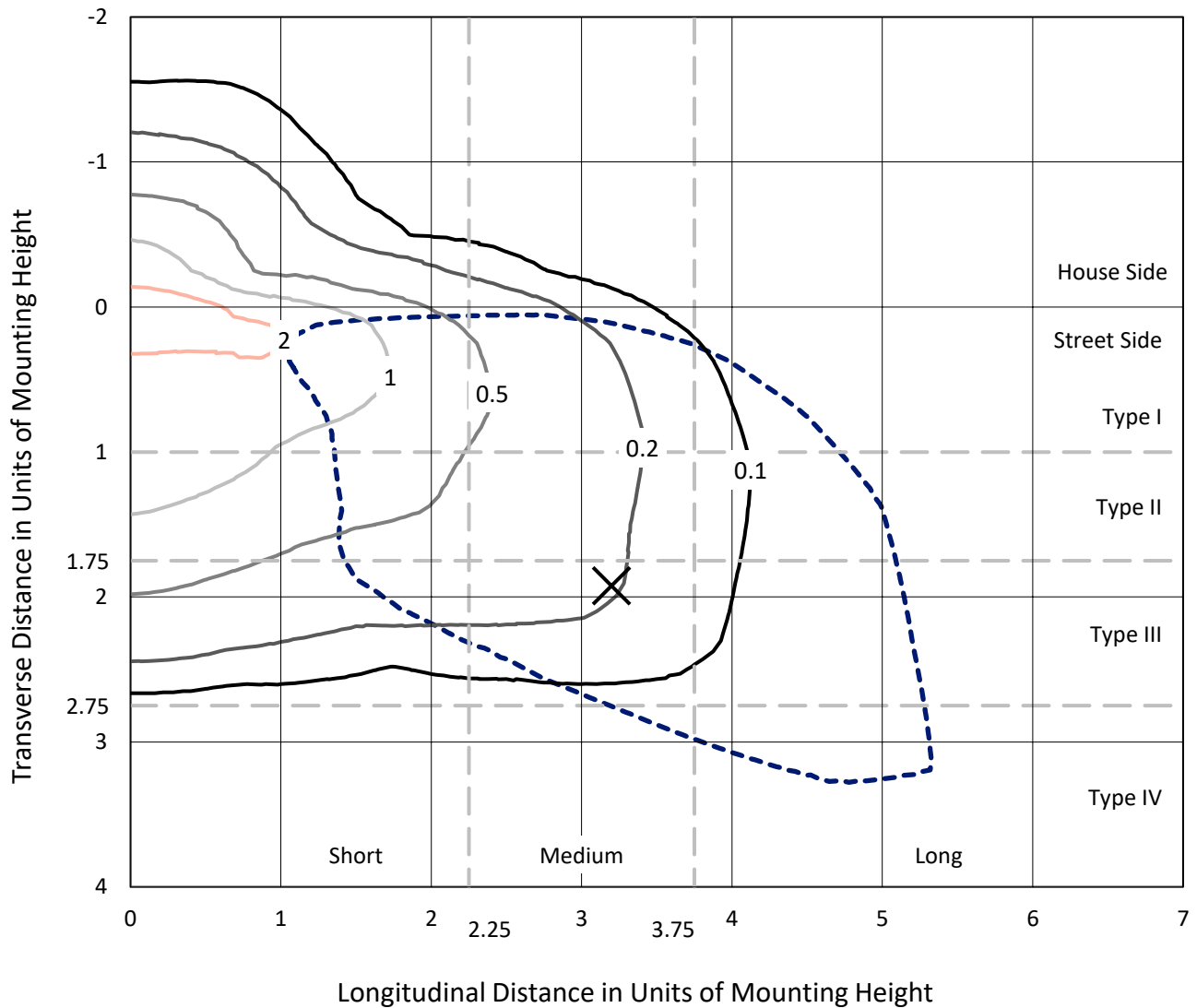
Lumens per Lamp: N/A  
Luminaire Lumens: 9949 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

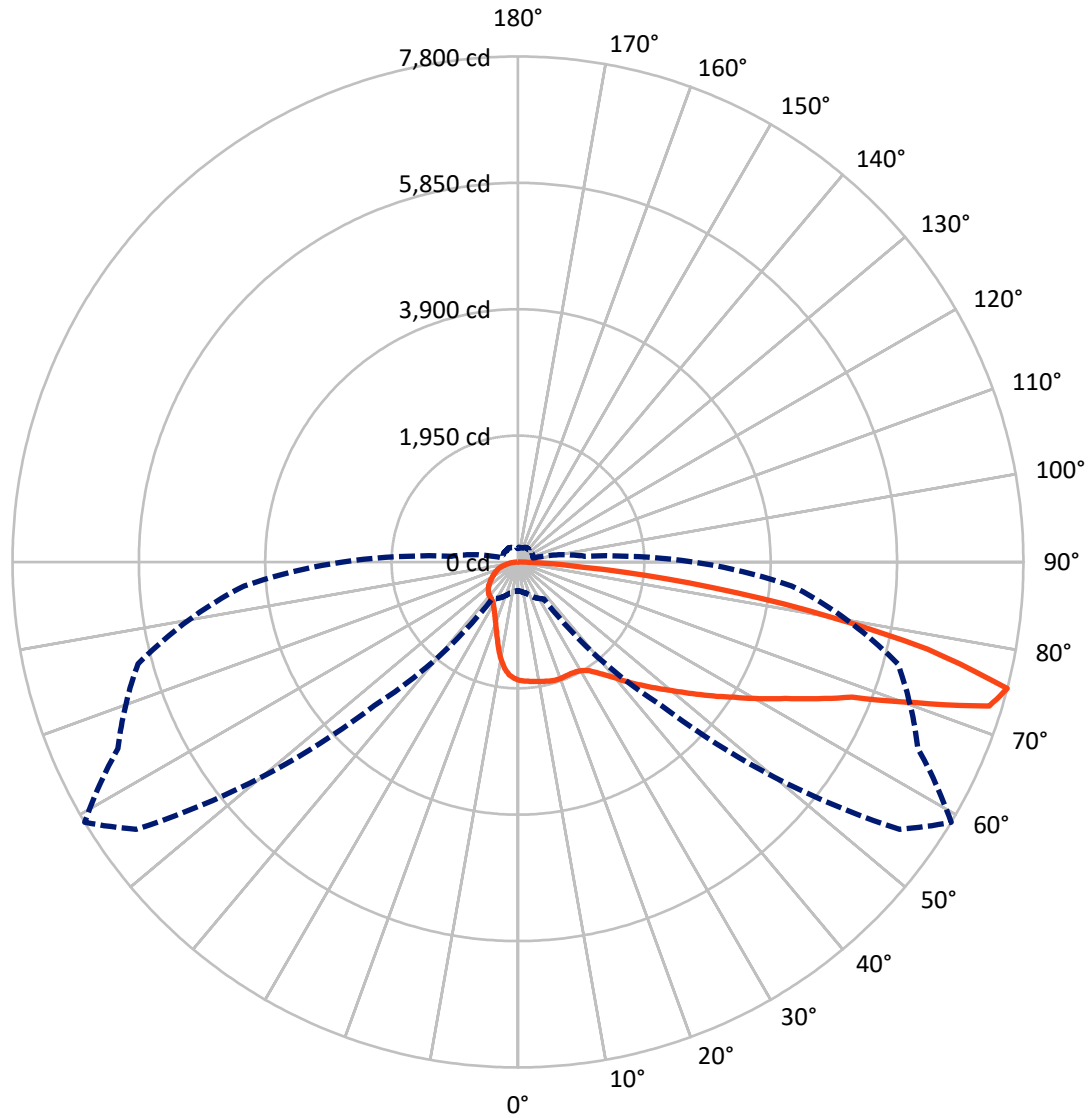
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	1866.0	0.0	1866.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8083.0	0.0	8083.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9949.0	0.0	9949.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	1.6
10°-20°	418.5	4.2
20°-30°	635.7	6.4
30°-40°	945.0	9.5
40°-50°	1405.3	14.1
50°-60°	1907.6	19.2
60°-70°	2328.8	23.4
70°-80°	1827.6	18.4
80°-90°	316.6	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°	9949.0	100.0
0°-180°	9949.0	100.0

**Coefficient of Utilization**



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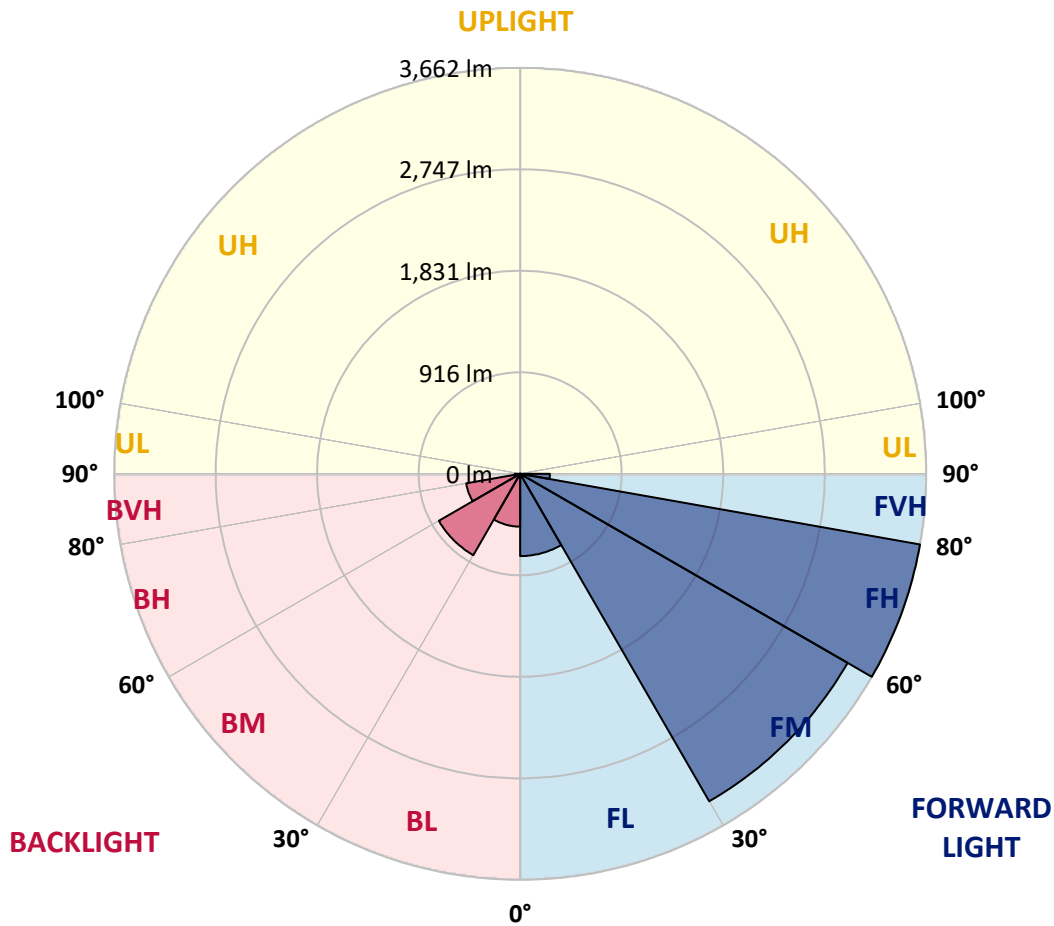
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.8	7.5			
FM (30°-60°)	3410.9	34.3			
FH (60°-80°)	3662.1	36.8			G2/5000
FVH (80°-90°)	268.1	2.7			G3/500
BL (0°-30°)	476.2	4.8	B1/500		
BM (30°-60°)	847.0	8.5	B1/1000		
BH (60°-80°)	494.4	5.0	B1/500		G1/500
BVH (80°-90°)	48.5	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°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1841.6	1835.2	1841.6	1839.0	1837.9	1835.8	1836.3	1840.0	1837.9	1840.6
5°	1829.3	1825.6	1832.0	1830.4	1837.4	1838.4	1845.4	1849.7	1852.3	1852.9
7.5°	1809.0	1805.2	1814.3	1821.8	1836.8	1841.1	1855.6	1862.5	1866.3	1872.7
10°	1734.6	1733.0	1755.5	1783.8	1819.2	1841.1	1863.0	1874.8	1880.7	1897.8
12.5°	1602.9	1605.1	1634.5	1689.1	1759.8	1830.4	1871.6	1888.7	1897.8	1919.2
15°	1477.2	1476.6	1508.7	1567.1	1666.1	1783.3	1875.9	1905.3	1920.8	1952.4
17.5°	1404.4	1402.2	1424.7	1469.1	1561.2	1711.0	1865.2	1914.4	1947.6	1987.2
20°	1391.0	1386.7	1398.5	1420.4	1485.7	1631.8	1837.4	1914.4	1969.0	2020.4
22.5°	1439.7	1432.7	1427.9	1425.2	1454.1	1566.5	1805.8	1908.0	2000.6	2068.0
25°	1537.6	1526.9	1502.3	1478.2	1469.7	1537.1	1777.9	1906.4	2047.7	2132.3
27.5°	1696.1	1682.7	1632.9	1575.1	1523.2	1552.1	1765.6	1916.0	2099.6	2200.2
30°	1892.5	1878.0	1815.4	1726.6	1633.4	1607.8	1781.2	1944.4	2166.0	2290.7
32.5°	2068.6	2052.5	1999.0	1908.5	1782.8	1704.1	1830.4	1998.5	2270.3	2416.4
35°	2224.8	2206.1	2157.9	2074.5	1965.8	1839.5	1919.2	2094.3	2418.6	2620.9
37.5°	2377.9	2356.0	2303.5	2215.2	2139.2	2019.9	2041.8	2217.4	2615.5	2869.2
40°	2549.2	2517.6	2453.9	2366.7	2292.8	2231.3	2202.9	2368.3	2815.7	3146.5
42.5°	2715.1	2685.1	2609.1	2534.7	2442.1	2424.5	2389.7	2544.9	3034.6	3451.0
45°	2893.8	2858.0	2765.9	2671.7	2613.4	2552.9	2570.6	2721.5	3249.2	3761.4
47.5°	3061.4	3021.2	2912.6	2807.7	2775.6	2661.0	2736.5	2915.8	3472.4	4076.1
50°	3151.8	3112.2	3021.8	2927.0	2901.9	2794.3	2916.3	3129.3	3706.3	4389.7
52.5°	3227.3	3184.5	3066.2	3013.7	3006.2	2939.3	3137.9	3373.4	3940.2	4667.0
55°	3307.6	3259.9	3109.0	3061.9	3096.2	3102.0	3400.7	3650.1	4187.4	4937.3
57.5°	3400.2	3339.7	3150.2	3102.6	3183.9	3292.6	3702.5	3937.0	4430.4	5187.7
60°	3487.4	3426.4	3229.4	3167.3	3278.7	3513.6	4048.8	4284.3	4705.5	5410.9
62.5°	3504.5	3454.2	3292.6	3292.0	3407.1	3771.6	4458.8	4634.9	4945.8	5631.4
65°	3208.0	3176.4	3080.6	3287.2	3591.2	4143.0	4915.3	5083.4	5251.4	5824.1
67.5°	2441.6	2445.9	2438.9	2837.7	3442.4	4676.6	5576.3	5563.4	5628.7	6040.3
70°	1116.4	1141.6	1305.4	1958.8	2757.9	4738.2	6669.2	6502.7	6102.4	6320.2
72.5°	603.2	622.4	689.3	948.9	1658.1	4212.6	7485.9	7604.2	6732.3	6508.6
75°	442.6	453.3	499.9	603.2	696.3	3130.9	7193.1	7800.1	6811.0	6069.2
77.5°	331.3	336.1	374.1	477.9	356.4	1650.6	5747.6	6459.9	5830.5	4986.5
80°	240.3	245.7	274.0	358.6	249.9	603.7	3946.6	4534.3	3993.2	3178.6
82.5°	165.9	168.1	180.4	244.1	174.5	234.4	2239.3	2658.9	2229.1	1115.4
85°	100.1	102.8	108.1	142.4	99.0	111.3	966.6	999.8	666.3	266.5
87.5°	41.2	43.9	48.2	59.9	39.1	31.0	159.5	200.2	124.7	78.1
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°
1826.1	0°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
1831.5	2.5°	1828.8	1825.0	1814.9	1801.0	1788.1	1772.1	1765.1	1759.2	1753.9	1743.7
1845.9	5°	1840.0	1829.9	1802.6	1767.2	1727.1	1683.2	1640.4	1611.0	1585.8	1567.1
1862.5	7.5°	1857.2	1837.9	1788.1	1715.9	1623.8	1529.6	1444.5	1384.0	1338.5	1322.0
1886.1	10°	1874.8	1851.8	1765.1	1637.7	1478.8	1333.7	1220.8	1158.7	1122.3	1110.5
1913.9	12.5°	1895.7	1862.0	1729.2	1529.1	1316.6	1157.6	1059.2	1022.8	1004.0	997.6
1948.1	15°	1926.2	1870.5	1675.2	1393.1	1161.9	1029.2	965.5	940.4	930.7	930.2
1983.5	17.5°	1949.2	1872.1	1591.2	1247.6	1043.1	951.6	899.1	889.5	895.9	905.6
2018.3	20°	1974.9	1857.7	1480.9	1114.8	959.6	883.6	861.7	868.1	883.6	897.5
2064.3	22.5°	1993.1	1831.5	1347.6	1011.5	887.4	844.6	843.5	856.9	865.4	872.4
2118.3	25°	2009.2	1787.0	1206.4	924.8	828.0	821.0	832.8	828.5	822.6	828.5
2172.4	27.5°	2020.9	1716.9	1080.0	848.8	786.2	804.9	798.0	788.4	787.8	791.0
2236.1	30°	2017.2	1623.3	976.2	776.6	756.8	775.0	758.4	756.8	755.2	756.8
2331.9	32.5°	2017.2	1516.8	896.5	726.8	738.0	731.1	729.5	725.7	719.3	718.8
2461.9	35°	2028.4	1410.3	828.0	700.0	722.5	705.9	707.0	697.9	684.5	678.1
2634.3	37.5°	2051.4	1324.6	760.0	687.2	695.2	694.7	690.4	674.9	651.3	631.0
2849.4	40°	2107.1	1299.5	713.4	681.3	682.4	688.8	677.6	647.6	594.1	560.9
3067.8	42.5°	2194.3	1341.8	703.3	666.9	673.8	680.2	658.3	588.7	550.7	530.9
3296.9	45°	2305.1	1415.6	725.2	646.0	653.5	664.7	599.4	566.2	549.1	549.7
3523.8	47.5°	2445.3	1493.2	765.9	627.8	624.0	630.5	560.4	540.0	516.5	522.4
3741.6	50°	2607.5	1571.9	804.4	603.2	591.4	570.5	535.2	515.9	486.0	472.1
3951.9	52.5°	2783.1	1647.9	819.9	573.2	556.1	532.0	518.1	494.5	458.1	435.1
4150.5	55°	2949.5	1716.9	802.8	537.3	520.8	502.0	499.9	485.4	446.4	414.2
4327.1	57.5°	3106.9	1774.7	760.0	501.0	484.9	473.7	488.1	481.1	431.9	390.7
4494.1	60°	3240.1	1814.3	697.9	464.0	452.8	446.9	468.8	466.7	411.6	365.5
4644.0	62.5°	3346.1	1829.9	629.4	428.7	426.0	415.3	442.1	442.1	385.9	340.9
4775.6	65°	3429.1	1814.9	559.8	393.9	399.3	383.2	409.4	406.2	358.6	319.0
4927.1	67.5°	3502.4	1765.6	482.8	359.7	372.0	351.6	375.2	367.7	328.6	297.0
5058.2	70°	3535.0	1651.1	395.0	325.4	340.4	320.6	340.9	327.0	294.9	273.5
4914.2	72.5°	3272.8	1372.3	311.0	289.5	302.4	286.3	304.0	287.9	258.5	248.9
4243.6	75°	2707.6	1029.7	239.2	250.5	260.1	247.8	259.6	247.8	221.0	228.0
3134.7	77.5°	1966.3	695.2	183.0	209.3	213.5	207.1	217.3	203.9	179.8	178.2
1562.3	80°	977.8	407.3	143.4	165.4	163.8	159.5	171.3	164.8	144.5	153.1
421.7	82.5°	283.1	174.5	104.4	116.1	112.9	114.0	122.6	125.8	188.4	186.8
131.1	85°	88.8	68.5	62.6	64.8	61.5	63.2	72.3	143.4	132.7	77.6
40.7	87.5°	23.0	23.5	15.5	16.6	17.1	20.3	23.0	87.2	41.7	27.3
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>
1826.1
1738.9
1551.6
1293.1
1092.4
999.2
932.3
909.3
902.4
876.1
832.2
796.4
762.7
725.7
684.5
638.0
565.2
530.9
552.3
537.3
475.8
434.6
414.2
388.6
363.9
339.3
316.8
294.9
269.2
240.8
208.2
170.2
151.5
191.1
84.0
28.9
0.0

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