

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: P948313

Luminaire Tested: **GALN-SB3B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948313
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-SB3B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10558 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

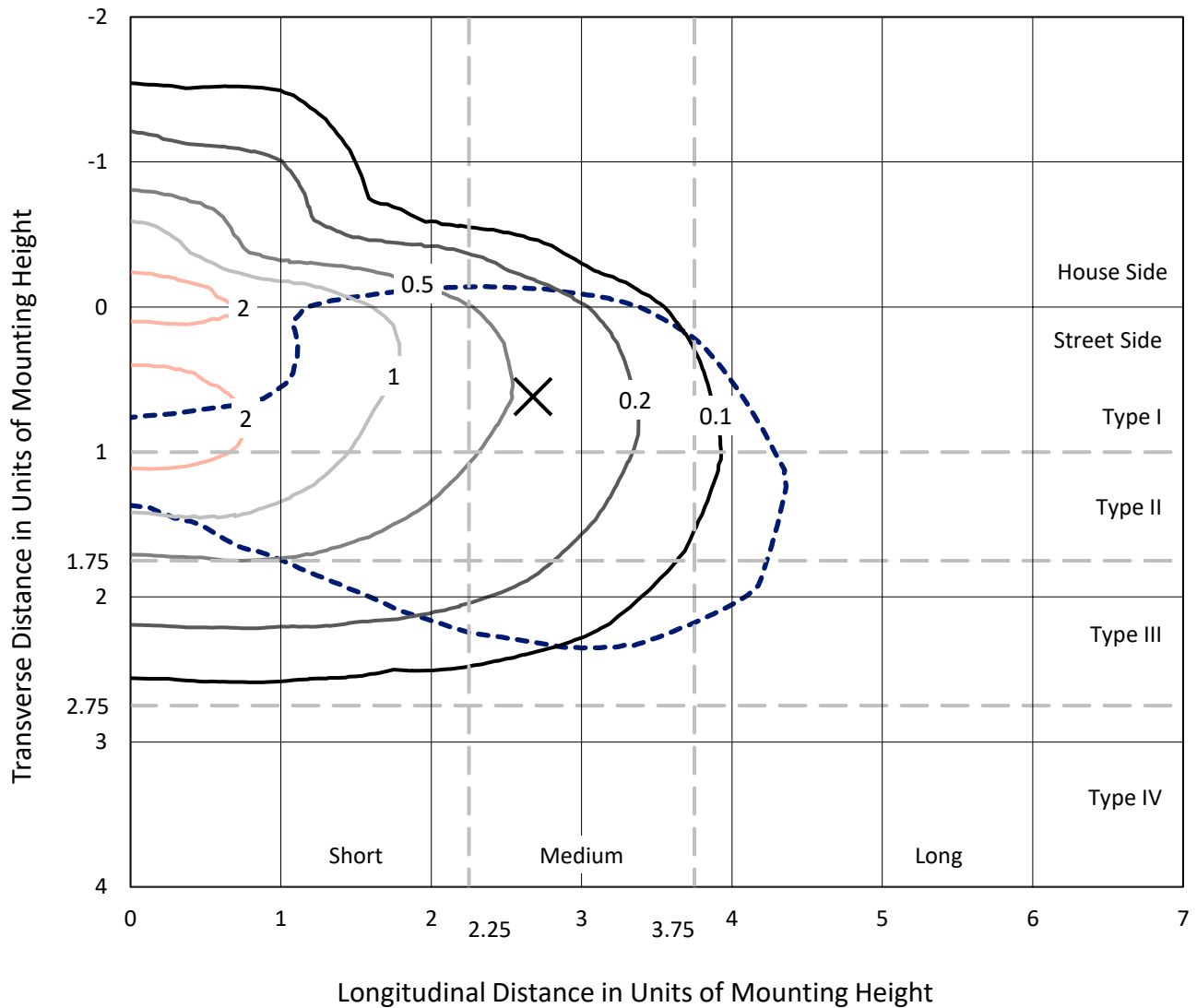
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

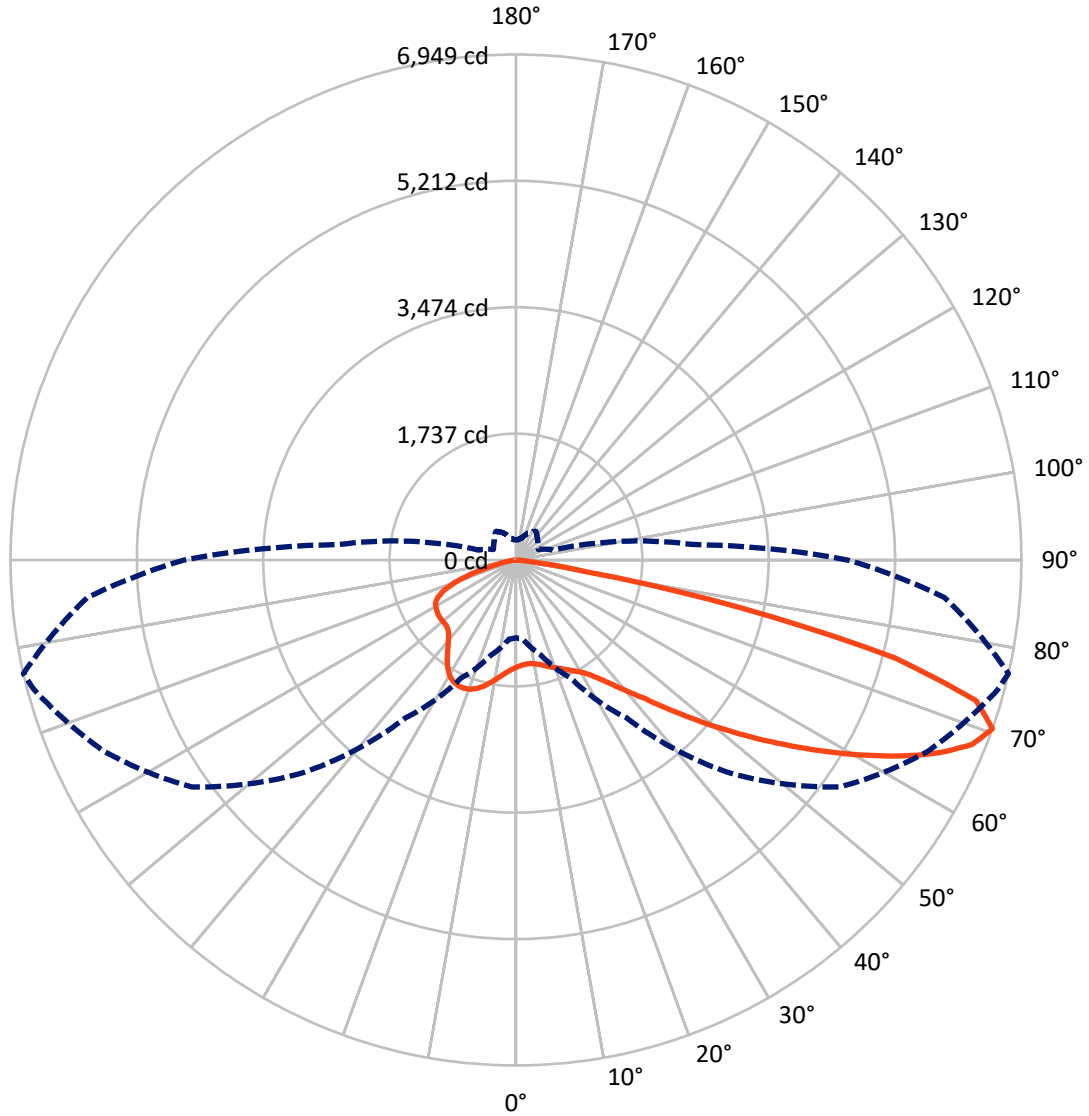
✕ Max cd
 - - - 1/2 Max cd



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	2312.0	0.0	2312.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8246.0	0.0	8246.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	10558.0	0.0	10558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.3
10°-20°	405.4	3.8
20°-30°	693.4	6.6
30°-40°	1115.0	10.6
40°-50°	1740.8	16.5
50°-60°	2325.3	22.0
60°-70°	2478.4	23.5
70°-80°	1525.7	14.5
80°-90°	133.7	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°	10558.0	100.0
0°-180°	10558.0	100.0



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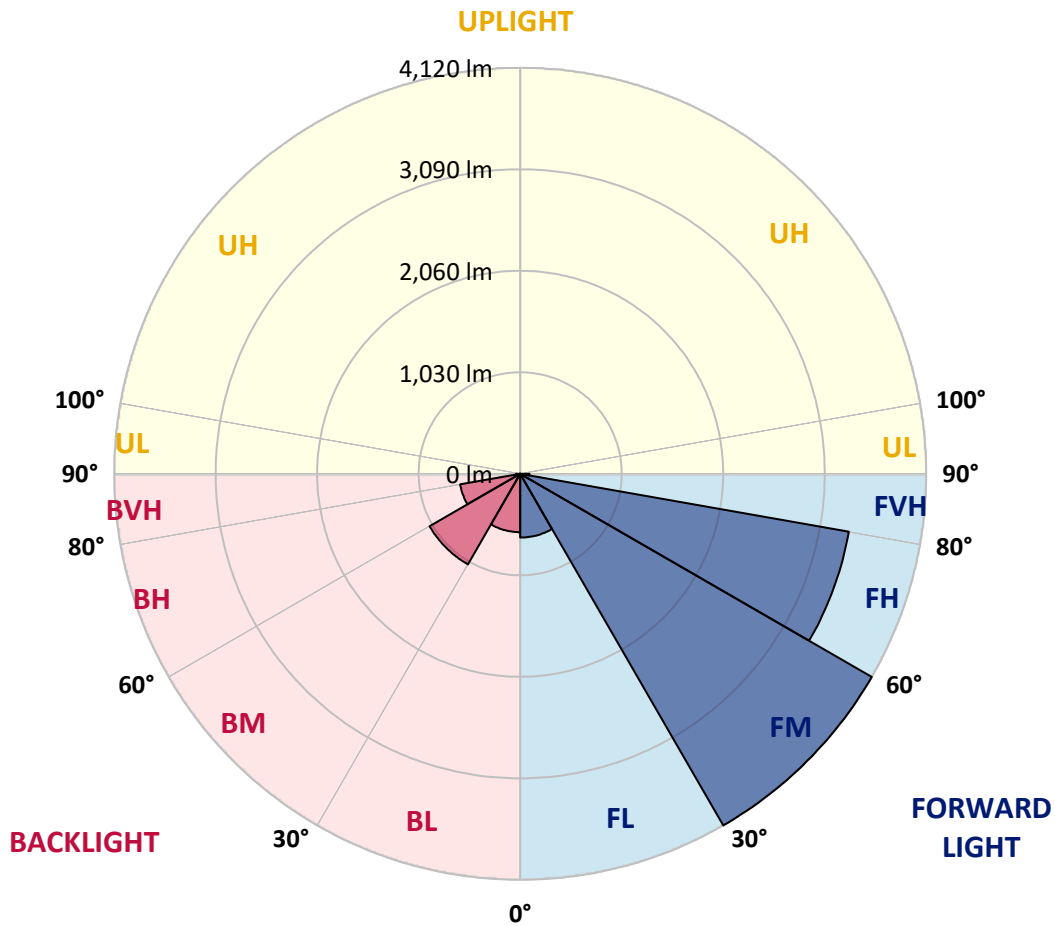
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.8	6.1			
FM (30°-60°)	4119.5	39.0			
FH (60°-80°)	3386.1	32.1			G2/5000
FVH (80°-90°)	93.5	0.9			G1/100
BL (0°-30°)	592.4	5.6	B2/1000		
BM (30°-60°)	1061.5	10.1	B2/2500		
BH (60°-80°)	617.9	5.9	B2/1000		G2/1000
BVH (80°-90°)	40.2	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°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
2.5°	1357.8	1357.2	1364.3	1366.4	1379.4	1388.6	1405.9	1424.3	1448.1	1450.8
5°	1279.4	1279.4	1287.5	1296.1	1312.9	1331.3	1357.8	1389.7	1430.8	1437.2
7.5°	1212.8	1217.2	1224.2	1241.0	1260.4	1286.9	1327.5	1372.9	1427.0	1437.2
10°	1159.3	1164.2	1172.8	1186.4	1215.6	1252.3	1305.3	1363.7	1436.2	1452.4
12.5°	1142.6	1147.4	1152.3	1162.6	1189.6	1232.9	1296.1	1368.0	1458.3	1474.6
15°	1181.5	1187.4	1183.6	1180.9	1195.0	1234.5	1300.4	1383.7	1485.9	1509.2
17.5°	1271.2	1273.4	1264.8	1239.3	1237.2	1258.3	1321.0	1405.3	1520.5	1545.9
20°	1416.2	1412.4	1394.5	1344.2	1315.6	1311.3	1356.1	1437.8	1556.2	1583.2
22.5°	1613.0	1608.7	1573.0	1493.5	1429.7	1387.5	1407.0	1480.0	1596.2	1626.5
25°	1858.5	1852.5	1800.1	1691.9	1593.0	1488.6	1476.2	1535.7	1645.4	1673.5
27.5°	2145.1	2140.2	2083.4	1940.7	1797.9	1627.0	1562.2	1601.1	1696.8	1728.7
30°	2453.3	2467.3	2366.8	2213.2	2032.6	1807.6	1677.9	1681.7	1763.3	1792.0
32.5°	2815.6	2839.9	2718.8	2524.1	2277.5	2003.9	1823.9	1794.1	1860.1	1883.9
35°	3174.6	3202.2	3101.6	2886.4	2602.5	2235.4	1976.4	1923.4	1988.8	2014.7
37.5°	3485.0	3521.7	3469.8	3282.7	2950.2	2514.4	2175.3	2075.3	2147.2	2179.7
40°	3729.9	3786.2	3782.4	3665.6	3360.1	2852.9	2427.9	2262.9	2344.0	2379.2
42.5°	3928.9	3977.6	4019.8	4013.8	3787.8	3237.3	2724.7	2506.8	2568.4	2609.0
45°	4066.3	4118.2	4209.0	4306.9	4199.3	3648.8	3064.8	2796.1	2852.3	2913.4
47.5°	4189.0	4247.9	4365.8	4521.0	4548.6	4061.9	3437.4	3133.0	3184.3	3247.6
50°	4199.8	4250.6	4433.4	4653.5	4796.8	4458.8	3837.5	3510.9	3559.1	3626.6
52.5°	3938.6	4018.7	4337.7	4649.7	4910.9	4790.8	4235.0	3904.0	3958.1	4039.2
55°	3057.3	3174.6	4057.1	4504.8	4870.3	5005.5	4612.9	4322.0	4391.2	4476.1
57.5°	2633.3	2684.7	3220.6	4240.9	4685.4	5061.2	4932.0	4744.3	4855.7	4948.7
60°	2366.8	2409.5	2726.3	3830.5	4442.1	4973.1	5178.5	5138.0	5330.5	5441.3
62.5°	2081.3	2121.8	2410.0	3198.4	4130.6	4826.5	5334.3	5501.3	5817.1	5938.3
65°	1797.9	1832.5	2108.8	2687.4	3734.8	4680.0	5414.8	5815.5	6267.6	6393.0
67.5°	1482.1	1510.8	1772.0	2267.3	3253.5	4479.4	5454.8	6062.6	6659.6	6767.2
70°	1069.6	1091.7	1361.5	1793.0	2649.6	4134.4	5438.6	6237.8	6862.9	6948.9
72.5°	505.6	525.6	842.5	1164.2	1871.5	3462.8	5110.4	6098.8	6656.3	6613.6
75°	269.8	287.1	483.9	638.6	988.4	2373.8	4182.0	5253.7	5589.5	5381.8
77.5°	182.8	196.3	299.6	383.4	451.5	1126.9	2687.9	3637.5	3499.6	3156.8
80°	144.9	159.0	245.5	259.5	218.5	407.2	1110.7	1683.8	1209.6	967.4
82.5°	111.4	127.1	206.6	188.2	119.0	167.1	323.4	532.6	309.8	235.8
85°	68.1	84.9	162.2	120.0	67.1	76.2	109.8	148.2	94.6	78.9
87.5°	34.6	48.7	82.2	43.8	30.3	17.8	29.2	29.2	24.9	21.6
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°
1472.9	0°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
1465.4	2.5°	1478.3	1489.2	1507.5	1524.8	1538.4	1551.3	1564.3	1571.3	1573.5	1582.2
1473.5	5°	1495.6	1515.7	1551.3	1584.9	1606.0	1618.9	1628.1	1633.5	1634.6	1637.3
1495.6	7.5°	1527.6	1559.5	1609.2	1642.7	1658.4	1657.3	1653.5	1640.0	1634.6	1629.7
1528.1	10°	1572.4	1614.6	1675.7	1699.0	1689.2	1663.3	1629.7	1590.3	1571.9	1554.0
1572.4	12.5°	1628.1	1681.7	1741.7	1740.6	1692.5	1626.0	1548.1	1487.5	1449.1	1421.6
1627.0	15°	1695.7	1757.4	1803.3	1766.6	1661.1	1541.6	1427.5	1348.6	1314.0	1283.7
1682.2	17.5°	1765.5	1831.4	1852.5	1758.4	1582.2	1416.7	1287.5	1225.3	1191.2	1175.0
1741.7	20°	1833.6	1899.0	1881.7	1711.9	1462.1	1275.0	1159.9	1125.8	1118.8	1122.5
1799.5	22.5°	1905.5	1963.9	1887.7	1622.2	1309.1	1130.1	1066.9	1067.9	1083.6	1095.0
1860.1	25°	1979.1	2018.5	1872.0	1492.4	1144.7	1023.6	1007.9	1025.2	1056.0	1078.2
1928.2	27.5°	2049.9	2067.2	1837.9	1331.8	1003.6	947.4	950.1	985.7	1032.2	1063.1
2011.0	30°	2129.9	2110.5	1772.5	1151.2	905.7	881.9	904.6	946.3	992.8	1020.3
2115.3	32.5°	2220.2	2147.8	1668.7	984.1	836.5	829.5	866.8	893.8	914.4	922.5
2253.7	35°	2332.7	2200.2	1535.7	866.8	774.3	791.1	826.8	813.3	805.1	800.8
2439.8	37.5°	2478.7	2271.0	1379.9	790.5	724.0	763.5	778.1	735.9	704.0	688.3
2665.2	40°	2654.4	2374.9	1230.2	731.6	692.1	739.7	714.3	663.5	622.9	600.7
2918.8	42.5°	2849.6	2483.6	1104.2	687.3	674.3	720.2	667.3	606.7	541.3	534.2
3221.1	45°	3054.6	2595.5	1018.2	653.2	665.6	703.5	640.2	542.3	495.8	524.5
3524.5	47.5°	3259.5	2698.2	966.3	627.8	661.3	684.6	616.4	506.7	473.7	515.3
3849.4	50°	3487.7	2790.1	943.0	609.4	656.4	677.0	580.7	497.5	450.4	478.0
4185.8	52.5°	3714.2	2861.5	925.7	591.0	649.4	671.0	563.4	486.7	422.3	423.9
4524.3	55°	3940.3	2908.0	906.8	566.7	633.7	658.1	561.8	474.8	401.2	393.6
4882.2	57.5°	4181.4	2934.5	883.5	539.6	606.7	625.1	560.2	465.6	394.7	382.3
5248.3	60°	4426.9	2973.5	853.3	506.7	570.5	585.6	556.4	462.3	390.9	369.9
5593.3	62.5°	4647.0	2987.0	817.0	475.3	524.0	546.7	548.3	459.6	380.7	344.4
5879.9	65°	4791.4	2928.6	753.8	439.6	473.7	506.7	532.6	450.4	362.3	326.1
6021.5	67.5°	4785.4	2762.0	654.8	393.6	425.0	462.3	509.9	434.7	340.1	303.3
5914.5	70°	4562.6	2433.3	529.4	340.1	371.5	414.7	480.7	411.5	313.6	278.5
5259.1	72.5°	3913.2	1904.4	384.5	277.4	309.3	365.5	442.9	383.4	286.6	256.3
3886.7	75°	2795.6	1205.3	260.6	213.0	240.6	309.8	395.8	350.4	261.7	257.4
1946.6	77.5°	1428.1	575.9	172.5	155.7	167.6	244.4	332.5	313.1	265.5	212.5
553.7	80°	464.5	212.5	108.7	106.0	111.4	162.8	257.4	256.8	201.2	144.4
134.1	82.5°	148.2	91.4	70.8	68.1	65.4	102.2	179.5	203.3	135.7	91.4
48.1	85°	58.9	54.6	41.6	38.4	27.6	48.1	94.1	135.2	101.1	66.0
12.4	87.5°	21.6	21.6	11.4	8.1	5.9	16.2	25.4	40.6	57.9	34.1
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

<u>180°</u>
1472.9
1587.0
1641.6
1630.8
1548.6
1415.1
1280.4
1179.9
1120.9
1097.7
1084.2
1070.6
1026.8
926.8
805.1
692.1
602.4
541.3
539.6
534.8
498.5
435.3
399.1
383.9
371.5
344.4
326.1
305.0
281.7
254.7
242.8
189.3
127.6
90.8
67.6
33.5
0.0

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