

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: P947138

Luminaire Tested: **GALN-SB2C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10032 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

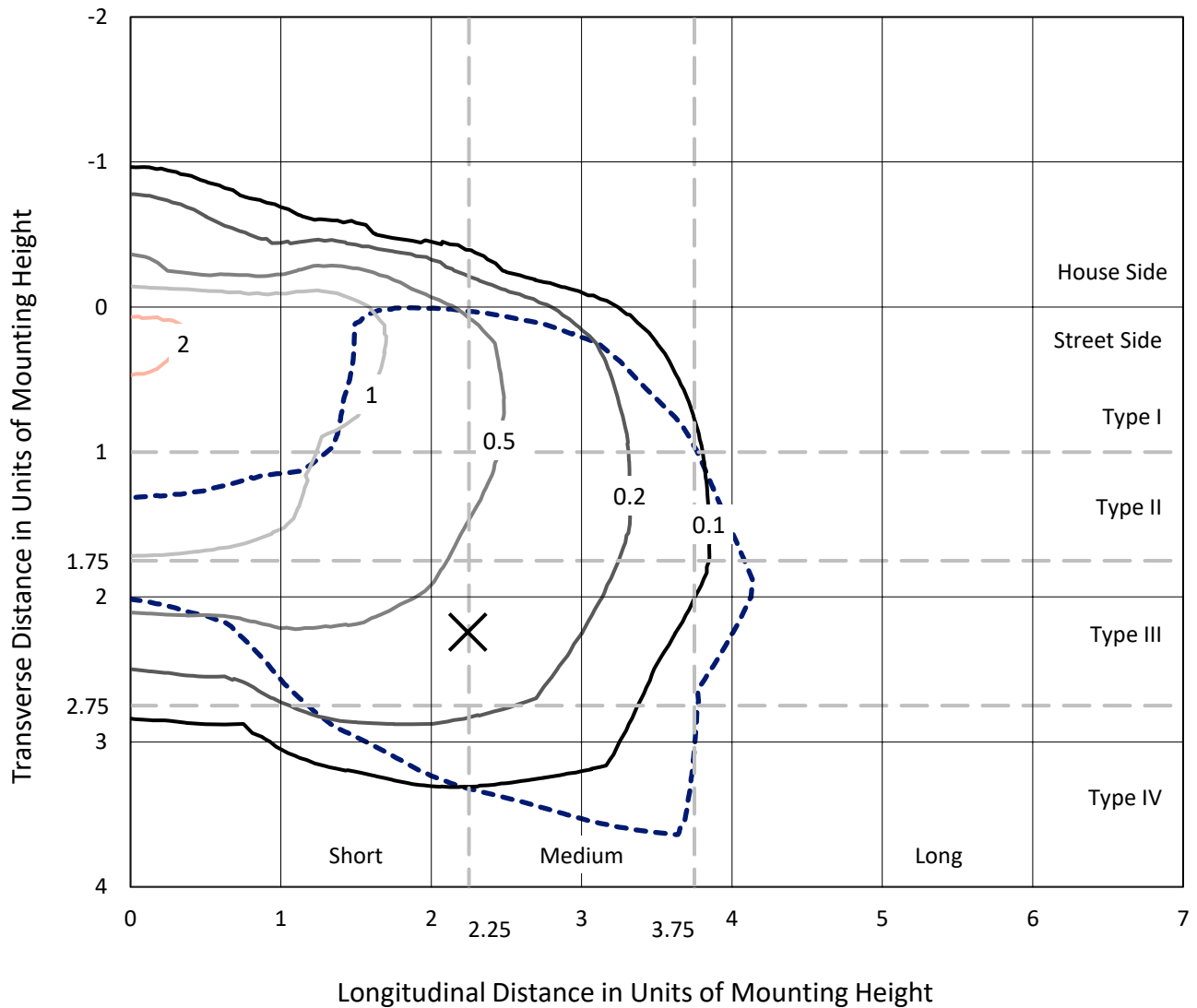
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947138
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Iso-Footcandle Lines of Horizontal Illumination

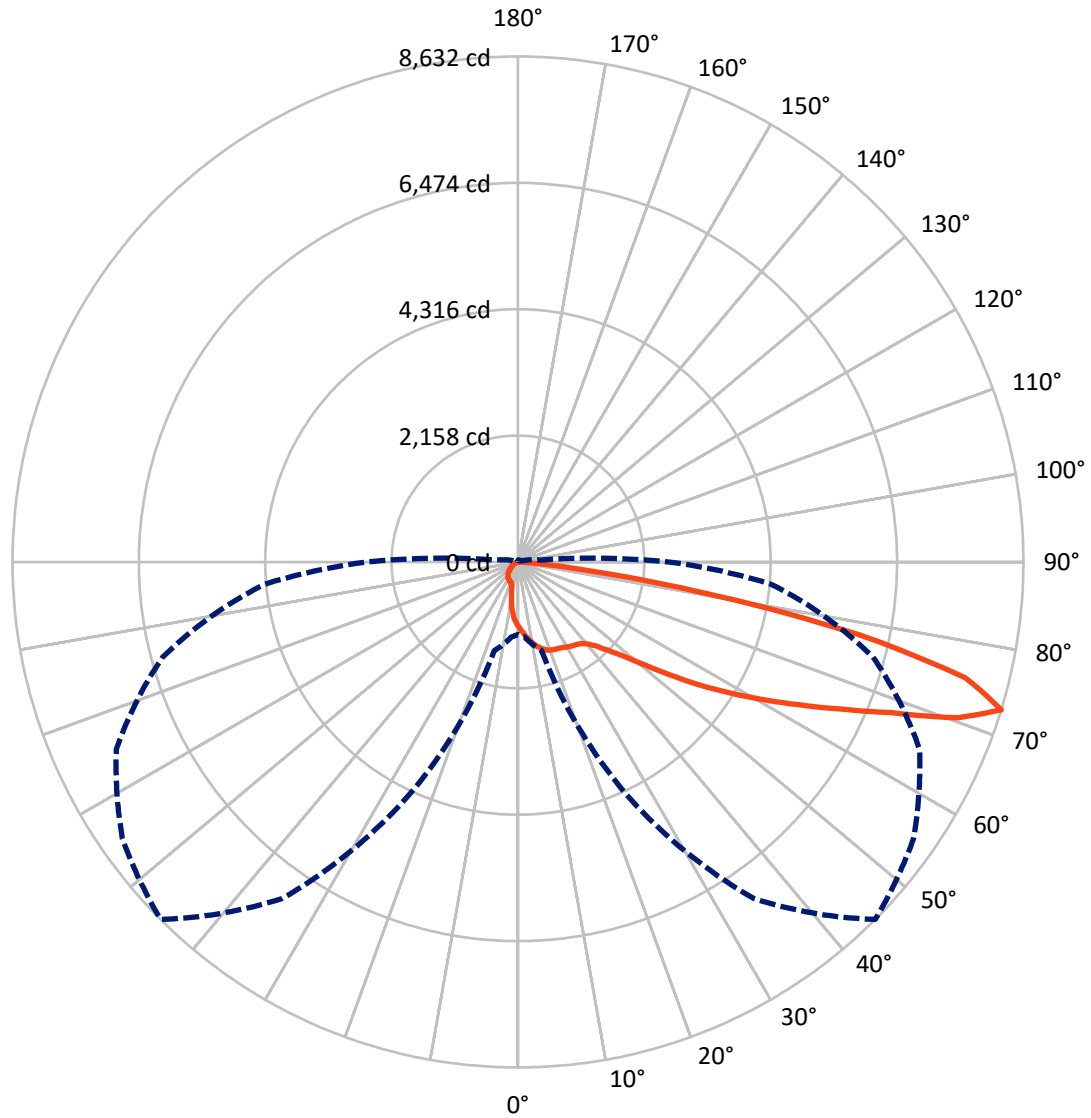
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P947138
CATALOG NUMBER: GALN-SB2C-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.1	0.0	1054.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8977.9	0.0	8977.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	10032.0	0.0	10032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.0
10°-20°	302.6	3.0
20°-30°	497.0	5.0
30°-40°	704.8	7.0
40°-50°	1165.0	11.6
50°-60°	2092.8	20.9
60°-70°	2906.0	29.0
70°-80°	2107.9	21.0
80°-90°	152.4	1.5
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°	10032.0	100.0
0°-180°	10032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947138

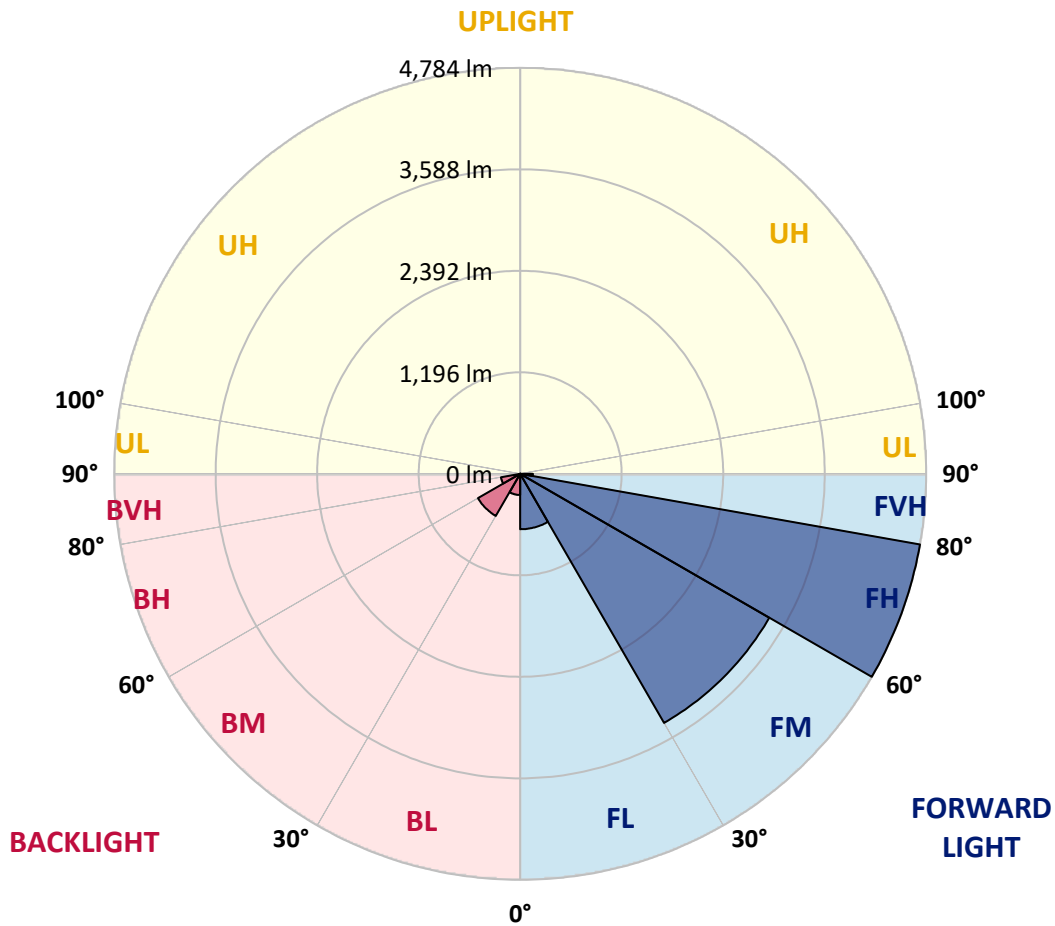
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.5	6.5			
FM (30°-60°)	3389.3	33.8			
FH (60°-80°)	4784.0	47.7			G2/5000
FVH (80°-90°)	151.1	1.5			G2/225
BL (0°-30°)	249.7	2.5	B1/500		
BM (30°-60°)	573.3	5.7	B1/1000		
BH (60°-80°)	229.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P947138
 CATALOG NUMBER: GALN-SB2C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0
2.5°	1200.4	1202.4	1201.1	1192.8	1179.1	1171.6	1167.5	1153.8	1144.9	1129.2
5°	1310.6	1318.8	1314.0	1297.6	1271.6	1253.1	1247.6	1219.5	1194.2	1164.8
7.5°	1427.7	1431.8	1422.9	1401.7	1366.8	1335.3	1330.5	1291.4	1251.0	1205.8
10°	1529.1	1533.8	1520.1	1489.3	1449.6	1410.6	1403.7	1360.6	1312.7	1257.2
12.5°	1614.0	1618.8	1601.0	1564.0	1520.1	1479.7	1472.9	1427.7	1375.0	1313.4
15°	1678.3	1687.2	1663.3	1623.5	1576.3	1535.9	1532.5	1488.0	1436.6	1368.1
17.5°	1716.0	1724.9	1702.3	1654.4	1614.0	1579.7	1575.6	1538.6	1490.7	1425.0
20°	1722.2	1730.4	1706.4	1664.6	1631.1	1603.7	1601.6	1574.9	1540.0	1477.0
22.5°	1703.7	1713.9	1692.0	1658.5	1635.2	1620.8	1618.1	1603.0	1583.1	1529.7
25°	1684.5	1692.7	1676.3	1646.8	1634.5	1633.1	1635.2	1632.4	1628.3	1583.1
27.5°	1683.1	1692.0	1673.5	1645.5	1638.6	1653.0	1655.0	1668.1	1671.5	1631.8
30°	1694.8	1700.9	1683.1	1653.7	1650.3	1683.1	1683.8	1707.1	1712.6	1672.8
32.5°	1720.1	1726.9	1709.1	1666.0	1661.2	1707.1	1709.1	1740.0	1748.9	1716.7
35°	1779.7	1787.9	1767.3	1700.2	1683.1	1729.7	1735.8	1772.1	1789.9	1763.2
37.5°	1928.3	1904.3	1876.2	1769.4	1733.1	1765.3	1775.6	1818.0	1849.5	1818.7
40°	2297.3	2222.0	2134.4	1887.2	1820.8	1841.3	1849.5	1892.0	1935.1	1905.0
42.5°	2851.3	2762.3	2621.2	2158.3	1952.9	1963.2	1969.3	2006.3	2067.3	2043.3
45°	3345.0	3312.8	3169.0	2621.2	2200.1	2149.4	2157.0	2176.1	2265.8	2256.9
47.5°	3724.4	3705.9	3594.9	3152.6	2617.8	2377.5	2398.7	2407.6	2537.0	2568.5
50°	4016.1	4009.2	3909.9	3625.1	3163.6	2713.7	2721.2	2702.0	2895.8	2973.9
52.5°	4291.3	4314.6	4241.4	4064.0	3746.3	3154.0	3152.6	3062.2	3323.8	3441.6
55°	4539.9	4548.1	4555.7	4511.8	4332.4	3655.2	3642.2	3494.3	3820.2	3942.1
57.5°	4773.4	4776.8	4843.9	4933.6	4942.5	4193.4	4169.5	3992.1	4362.6	4449.5
60°	4930.2	4946.0	5087.7	5337.0	5445.8	4748.8	4735.7	4555.0	4914.5	4954.9
62.5°	4704.2	4800.1	5157.6	5651.9	5921.1	5364.3	5358.2	5188.4	5495.1	5462.3
65°	3807.9	3970.2	4598.8	5864.9	6387.4	6051.8	6060.7	5880.0	6091.6	5984.7
67.5°	2663.7	2834.9	3578.5	5882.0	6908.5	6859.2	6910.5	6627.0	6724.9	6485.3
70°	1842.0	1930.3	2414.4	5513.6	7314.5	7971.2	7969.8	7544.6	7354.9	6713.3
72.5°	1238.7	1284.6	1568.1	4374.2	7016.0	8632.0	8592.3	8245.8	7567.2	6278.5
75°	522.5	556.0	725.8	2458.3	5550.6	7897.2	7789.7	7287.1	6723.6	4943.9
77.5°	165.7	180.1	286.2	879.9	3057.4	5936.1	5822.4	4550.9	4506.4	2480.2
80°	78.7	91.8	160.9	353.3	1203.1	3228.6	3212.9	2064.5	1938.5	669.7
82.5°	34.2	40.4	89.0	189.0	538.2	1151.8	1175.0	702.6	581.4	254.0
85°	11.0	14.4	41.1	87.0	227.3	286.2	282.8	167.1	234.2	138.3
87.5°	0.0	0.0	13.7	19.9	23.3	16.4	18.5	14.4	65.1	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947138
 CATALOG NUMBER: GALN-SB2C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1099.0	0°	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0
1112.7	2.5°	1104.5	1093.5	1074.4	1056.6	1040.8	1025.1	1015.5	1001.8	1000.4	1000.4
1130.5	5°	1112.0	1094.2	1060.0	1023.7	981.9	942.2	902.5	864.2	851.8	842.9
1159.3	7.5°	1133.9	1105.9	1051.8	982.6	903.2	816.2	755.3	689.5	664.2	650.5
1197.6	10°	1165.4	1127.1	1044.9	923.7	795.0	676.5	589.6	518.4	491.0	479.3
1239.4	12.5°	1200.4	1153.1	1032.6	850.5	676.5	534.8	449.9	417.0	412.9	412.9
1289.4	15°	1242.1	1184.6	1011.4	764.2	552.6	423.2	393.0	394.4	398.5	401.3
1338.0	17.5°	1285.3	1218.2	977.8	667.6	443.0	380.7	381.4	383.5	386.9	389.6
1390.7	20°	1331.8	1251.7	933.3	564.9	380.0	368.4	370.5	372.5	375.2	376.6
1440.0	22.5°	1381.8	1283.2	880.6	464.3	358.8	358.1	358.8	360.9	364.3	364.3
1497.6	25°	1435.2	1318.1	820.3	391.0	347.9	347.9	349.2	350.6	353.3	353.3
1553.0	27.5°	1490.0	1350.3	756.7	352.6	338.3	337.6	337.6	339.6	341.0	341.7
1607.8	30°	1550.3	1388.0	693.0	344.4	330.7	327.3	325.3	326.6	328.0	328.7
1665.3	32.5°	1611.9	1424.3	636.1	347.9	323.2	317.0	310.2	308.8	308.8	311.6
1724.9	35°	1680.4	1464.0	592.3	359.5	319.1	302.0	291.0	284.9	285.5	289.7
1796.1	37.5°	1762.6	1511.9	560.1	369.8	316.4	284.9	267.1	259.5	254.7	259.5
1894.0	40°	1870.1	1582.5	536.8	378.0	312.9	265.0	241.0	228.7	219.8	222.5
2046.0	42.5°	2028.2	1693.4	527.9	378.7	305.4	241.7	214.3	197.9	184.9	185.6
2274.7	45°	2250.1	1868.7	573.8	369.8	289.0	216.4	186.3	164.3	156.1	154.1
2616.4	47.5°	2554.1	2124.1	680.0	351.3	265.0	191.7	158.9	140.4	134.2	130.8
3064.9	50°	2961.6	2452.1	797.7	330.7	241.0	168.4	136.3	124.6	120.5	117.1
3597.0	52.5°	3434.0	2784.9	894.3	310.2	217.1	147.9	121.9	115.0	111.6	108.9
4110.6	55°	3867.5	3014.3	888.8	288.3	193.8	131.5	111.6	107.5	103.4	100.7
4552.9	57.5°	4137.3	3046.5	732.7	264.3	167.1	118.5	102.0	99.3	94.5	91.1
4935.7	60°	4261.2	2862.9	513.6	232.8	140.4	106.1	91.8	90.4	84.2	79.4
5297.9	62.5°	4283.8	2521.9	342.4	193.8	117.1	94.5	81.5	79.4	71.2	63.0
5592.4	65°	4192.1	2034.4	236.9	151.3	100.0	82.2	69.8	65.7	56.8	48.6
5662.2	67.5°	3901.7	1428.4	165.0	108.9	84.9	65.1	55.5	54.1	47.2	40.4
5306.1	70°	3369.7	814.2	110.2	81.5	67.1	44.5	43.8	45.2	38.3	32.9
4335.2	72.5°	2583.6	372.5	68.5	59.6	45.9	30.1	34.9	35.6	29.4	24.7
2704.8	75°	1520.8	159.5	43.1	38.3	23.3	19.9	25.3	26.0	19.9	15.7
988.8	77.5°	517.7	60.3	27.4	22.6	11.6	11.0	16.4	16.4	11.0	6.2
198.6	80°	117.8	22.6	13.7	8.9	5.5	4.8	5.5	4.8	2.7	0.7
60.9	82.5°	33.6	8.9	5.5	3.4	2.1	2.1	0.7	0.0	0.0	0.0
21.2	85°	9.6	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1099.0
1003.8
847.0
652.6
479.3
412.9
401.3
389.6
377.3
365.7
354.0
342.4
330.1
313.6
291.7
258.2
221.2
182.8
151.3
128.7
116.4
108.2
99.3
90.4
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