

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: P947598

Luminaire Tested: **GALN-SB2D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10313 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

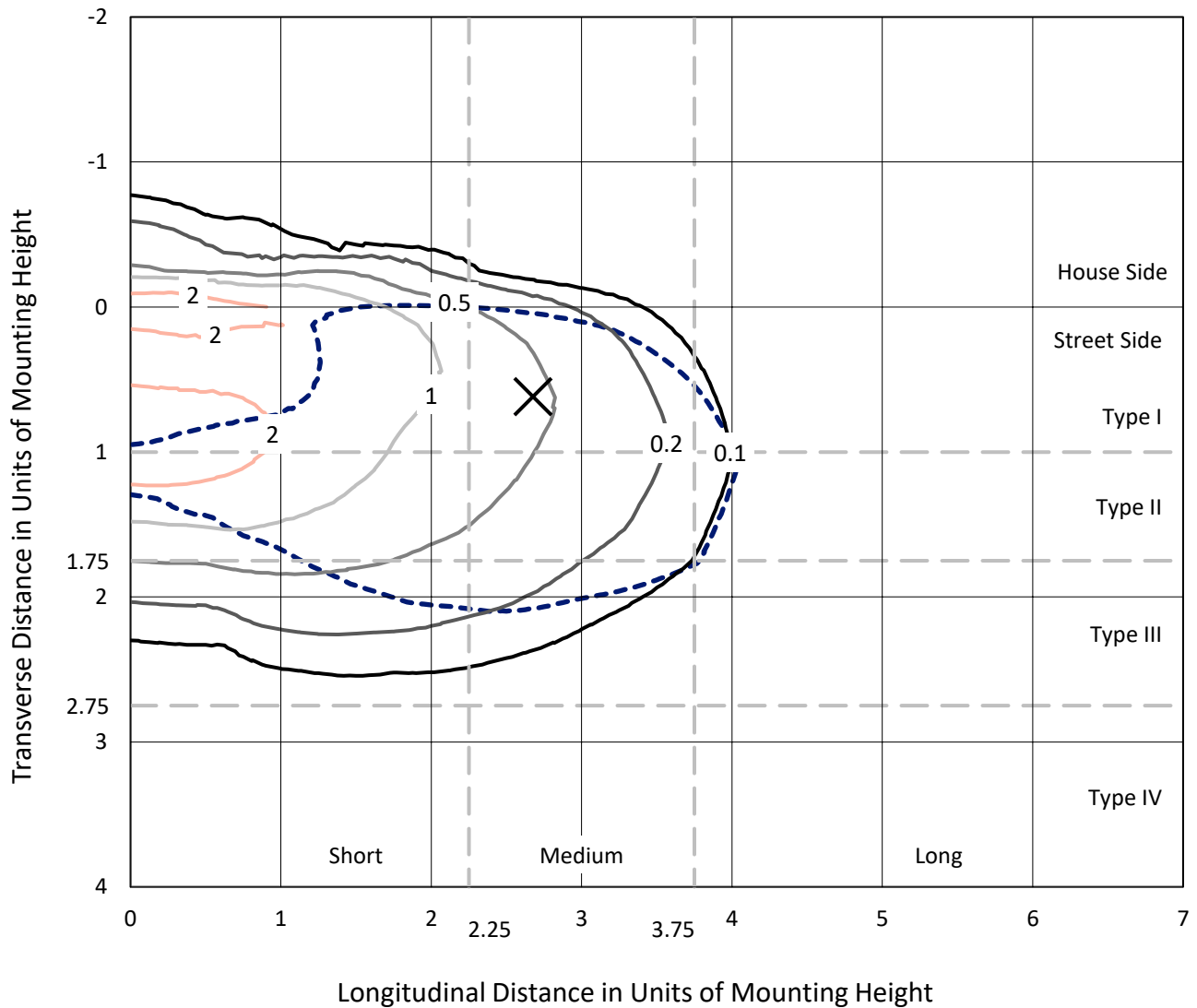
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

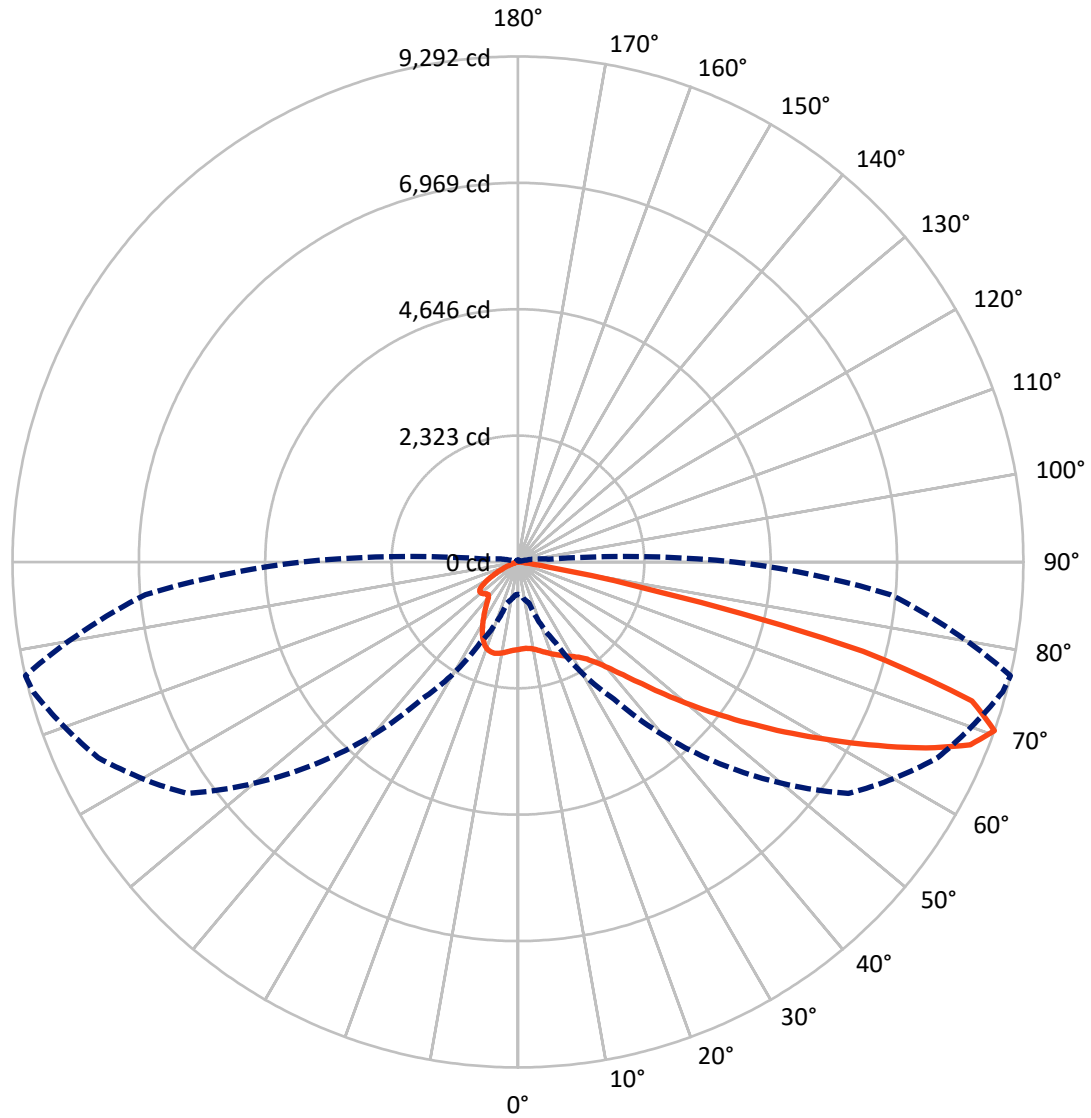
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1087.1	0.0	1087.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9225.9	0.0	9225.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	10313.0	0.0	10313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.3
10°-20°	329.1	3.2
20°-30°	509.0	4.9
30°-40°	923.7	9.0
40°-50°	1743.6	16.9
50°-60°	2519.3	24.4
60°-70°	2681.8	26.0
70°-80°	1421.2	13.8
80°-90°	46.7	0.5
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°	10313.0	100.0
0°-180°	10313.0	100.0

Coefficient of Utilization



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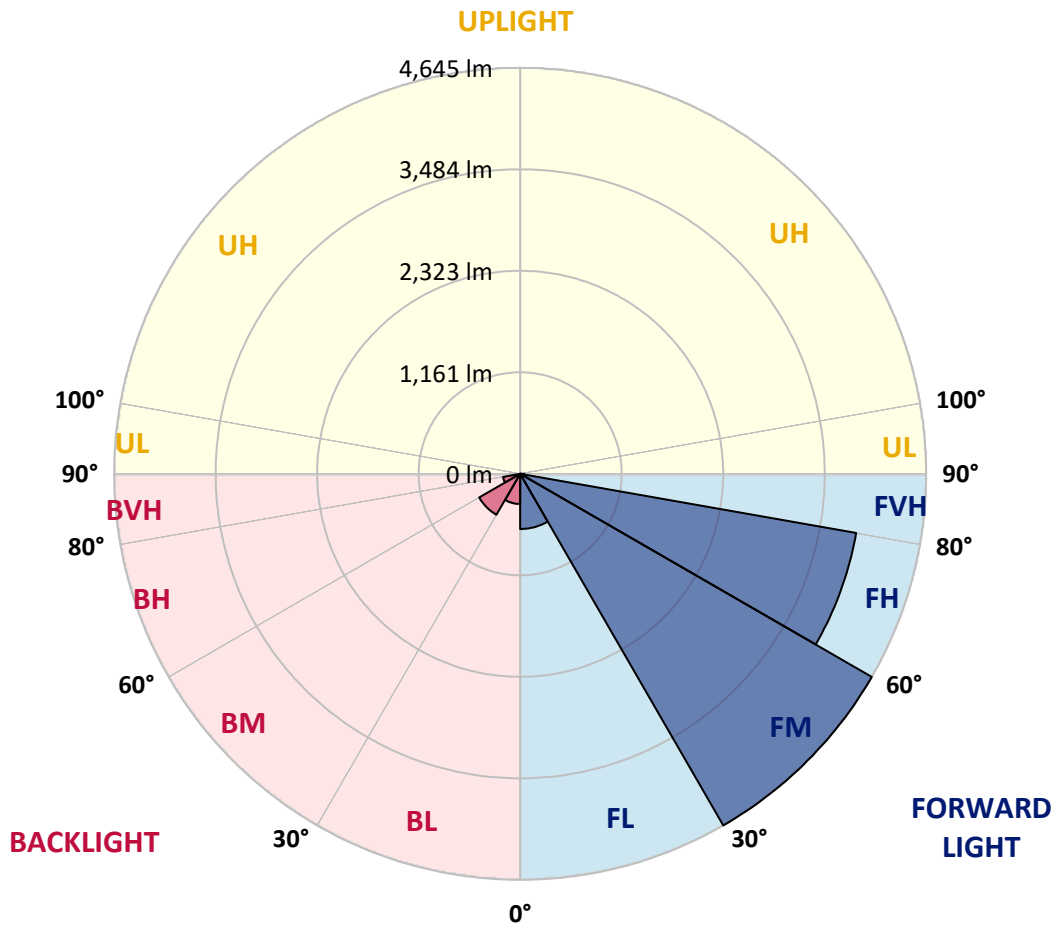
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.4	6.1			
FM (30°-60°)	4645.4	45.0			
FH (60°-80°)	3903.6	37.9			G2/5000
FVH (80°-90°)	45.4	0.4			G1/100
BL (0°-30°)	345.4	3.3	B1/500		
BM (30°-60°)	541.2	5.2	B1/1000		
BH (60°-80°)	199.3	1.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6
2.5°	1510.3	1524.0	1522.0	1531.1	1534.4	1547.4	1560.4	1578.0	1597.6	1596.9
5°	1425.0	1438.7	1441.9	1454.3	1469.9	1490.1	1516.8	1552.0	1588.5	1594.3
7.5°	1324.0	1338.4	1346.8	1371.6	1400.2	1441.9	1485.6	1537.0	1597.6	1606.0
10°	1223.1	1236.1	1247.2	1282.4	1327.9	1389.8	1460.8	1535.0	1616.5	1628.8
12.5°	1160.6	1172.9	1185.3	1215.9	1272.6	1348.1	1444.5	1544.2	1647.7	1665.3
15°	1138.4	1149.5	1159.3	1186.6	1239.4	1325.3	1441.3	1563.1	1687.4	1710.9
17.5°	1141.7	1147.5	1154.1	1174.9	1226.3	1314.9	1447.1	1595.6	1734.3	1755.2
20°	1160.6	1163.8	1164.5	1178.8	1224.4	1313.6	1458.8	1626.9	1778.6	1806.6
22.5°	1184.7	1186.0	1184.7	1194.4	1236.8	1323.4	1474.5	1664.7	1828.1	1854.2
25°	1297.3	1272.6	1241.3	1222.4	1257.6	1342.3	1497.9	1715.5	1882.2	1907.6
27.5°	1647.1	1576.1	1464.1	1338.4	1300.6	1369.6	1530.5	1766.9	1936.9	1959.7
30°	2215.0	2121.8	1931.7	1648.4	1438.7	1426.9	1572.8	1818.4	1994.8	2019.6
32.5°	2784.2	2761.4	2541.9	2149.8	1749.3	1554.6	1643.2	1888.0	2071.7	2091.2
35°	3359.9	3313.7	3133.9	2746.4	2228.0	1814.4	1760.4	1979.2	2172.6	2194.8
37.5°	3800.8	3772.8	3661.5	3342.3	2795.9	2215.6	1961.0	2120.5	2319.2	2343.9
40°	4190.3	4177.3	4139.5	3929.1	3430.9	2740.6	2272.9	2339.4	2522.4	2551.7
42.5°	4496.4	4527.0	4548.5	4489.9	4085.4	3339.7	2692.4	2646.8	2805.7	2835.6
45°	4809.6	4820.1	4906.7	4991.3	4735.4	3966.2	3165.2	3006.9	3158.0	3195.1
47.5°	5010.9	5052.6	5205.0	5354.1	5281.8	4587.6	3673.2	3432.2	3566.4	3636.1
50°	5025.9	5104.7	5314.4	5574.2	5679.7	5178.9	4225.5	3916.7	4059.4	4136.2
52.5°	4776.4	4898.9	5223.9	5604.2	5894.7	5679.7	4796.6	4401.3	4584.3	4684.6
55°	3662.1	3822.3	4883.2	5441.4	5903.1	6059.4	5352.8	4906.0	5169.1	5282.5
57.5°	3190.6	3271.3	3839.2	5158.7	5746.2	6212.5	5855.6	5386.7	5805.4	5946.1
60°	2654.6	2760.7	3219.9	4696.3	5533.2	6227.5	6299.8	6006.7	6495.1	6653.4
62.5°	1804.0	1919.3	2375.8	3901.8	5242.1	6220.3	6663.8	6644.9	7261.7	7431.7
65°	1117.6	1189.9	1490.8	3186.0	4835.0	6228.1	7044.8	7419.9	8070.6	8243.1
67.5°	883.1	916.3	1073.3	2446.2	4133.6	6052.3	7425.2	8148.7	8831.9	8968.7
70°	593.3	613.5	780.9	1639.9	3075.3	5240.8	7418.0	8514.7	9224.0	9292.3
72.5°	312.6	328.2	456.5	759.4	1857.4	3725.3	6252.9	8077.1	8833.9	8731.0
75°	156.3	182.4	307.4	385.6	793.2	2077.6	3882.9	6368.1	6953.0	6554.4
77.5°	118.5	143.3	254.0	254.0	276.1	699.5	1644.5	3473.2	3203.6	2667.6
80°	75.5	97.7	222.1	192.1	115.3	177.8	428.5	973.0	680.6	517.8
82.5°	44.3	63.8	185.0	127.0	64.5	65.8	121.1	207.1	176.5	137.4
85°	17.6	41.7	127.0	50.1	25.4	16.3	36.5	44.3	36.5	27.4
87.5°	0.0	9.8	22.1	0.0	2.0	1.3	2.6	3.3	3.3	2.6
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°
1608.6	0°	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6	1608.6
1609.9	2.5°	1615.8	1617.1	1621.0	1621.7	1612.5	1600.8	1596.3	1594.3	1586.5	1585.8
1620.4	5°	1635.3	1641.2	1635.3	1618.4	1578.0	1521.4	1478.4	1443.2	1411.3	1401.5
1656.2	7.5°	1674.4	1680.3	1662.7	1596.3	1494.7	1382.0	1280.4	1208.8	1144.3	1120.2
1699.8	10°	1730.4	1738.2	1682.9	1548.7	1369.0	1187.9	1016.0	894.8	800.4	762.0
1759.1	12.5°	1800.8	1804.0	1694.0	1476.4	1205.5	946.9	703.4	573.8	489.8	458.5
1830.7	15°	1878.3	1873.7	1695.3	1378.1	982.8	669.5	459.1	377.1	343.2	332.8
1902.4	17.5°	1959.7	1940.8	1669.2	1236.1	738.5	457.8	340.6	321.1	315.2	312.6
1973.4	20°	2039.8	1997.5	1621.7	1050.5	530.1	341.9	309.4	303.5	300.2	298.9
2045.0	22.5°	2112.7	2040.4	1540.3	834.9	384.9	302.2	292.4	287.2	281.3	278.7
2114.7	25°	2183.7	2065.2	1425.6	633.7	308.1	282.7	274.8	265.1	257.3	254.0
2189.6	27.5°	2252.7	2080.8	1282.4	468.9	274.8	264.4	250.1	236.4	230.6	229.2
2269.7	30°	2326.3	2086.0	1119.5	349.7	254.6	241.6	220.8	205.2	201.9	202.5
2377.8	32.5°	2416.2	2093.8	955.4	286.6	237.7	214.3	189.5	173.2	170.6	173.2
2535.4	35°	2523.7	2109.5	797.2	263.8	222.7	186.3	159.6	145.9	143.3	145.2
2737.3	37.5°	2669.6	2134.9	649.3	259.2	210.4	162.8	134.2	123.1	123.1	123.7
2984.8	40°	2863.6	2202.6	517.1	255.9	203.8	145.2	113.3	108.8	110.7	112.0
3300.0	42.5°	3100.1	2346.5	427.9	252.0	196.7	137.4	102.9	100.9	104.2	105.5
3677.7	45°	3365.1	2528.9	396.6	245.5	190.2	142.6	98.3	95.7	99.6	100.3
4101.1	47.5°	3639.3	2707.3	392.7	238.4	183.7	150.4	97.0	91.2	95.7	96.4
4553.0	50°	3916.7	2823.9	396.6	227.3	173.2	150.4	97.7	86.6	90.5	92.5
5022.0	52.5°	4196.1	2877.3	394.0	203.2	155.0	141.3	97.7	82.7	86.6	87.9
5528.6	55°	4467.1	2866.9	354.3	167.4	131.6	125.0	95.1	79.5	82.1	82.7
6007.3	57.5°	4681.3	2721.7	280.7	130.3	106.8	104.2	86.6	75.5	77.5	76.9
6446.3	60°	4793.4	2402.5	200.6	100.3	84.0	82.1	76.2	70.3	71.6	68.4
6818.2	62.5°	4794.7	1980.5	134.2	79.5	67.1	65.1	65.1	63.2	61.9	55.4
7106.0	65°	4692.4	1512.3	89.2	63.2	54.1	50.8	54.7	54.1	49.5	40.4
7194.0	67.5°	4460.6	991.2	67.7	49.5	41.7	39.7	43.6	45.6	42.3	33.9
6873.5	70°	3983.8	577.0	56.0	38.4	31.3	29.3	35.2	39.1	35.2	27.4
5875.1	72.5°	3309.1	311.3	45.6	28.7	21.5	19.5	28.0	31.9	28.0	20.2
3769.6	75°	2147.2	166.7	35.2	18.9	11.1	12.4	20.8	23.4	19.5	13.0
1106.5	77.5°	721.0	73.6	22.1	9.1	5.2	5.2	12.4	14.3	9.1	4.6
201.2	80°	160.9	30.6	9.1	3.9	2.0	2.0	2.6	2.6	1.3	0.0
61.9	82.5°	52.8	12.4	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
15.6	85°	20.2	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	7.8	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>
1608.6
1587.1
1395.7
1110.4
745.7
448.7
332.8
312.0
297.6
278.1
252.7
227.9
202.5
172.6
144.6
123.1
112.0
105.5
100.9
97.0
93.1
87.9
82.7
76.9
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