

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: P946158

Luminaire Tested: **GALN-SB1D-927-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5022 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

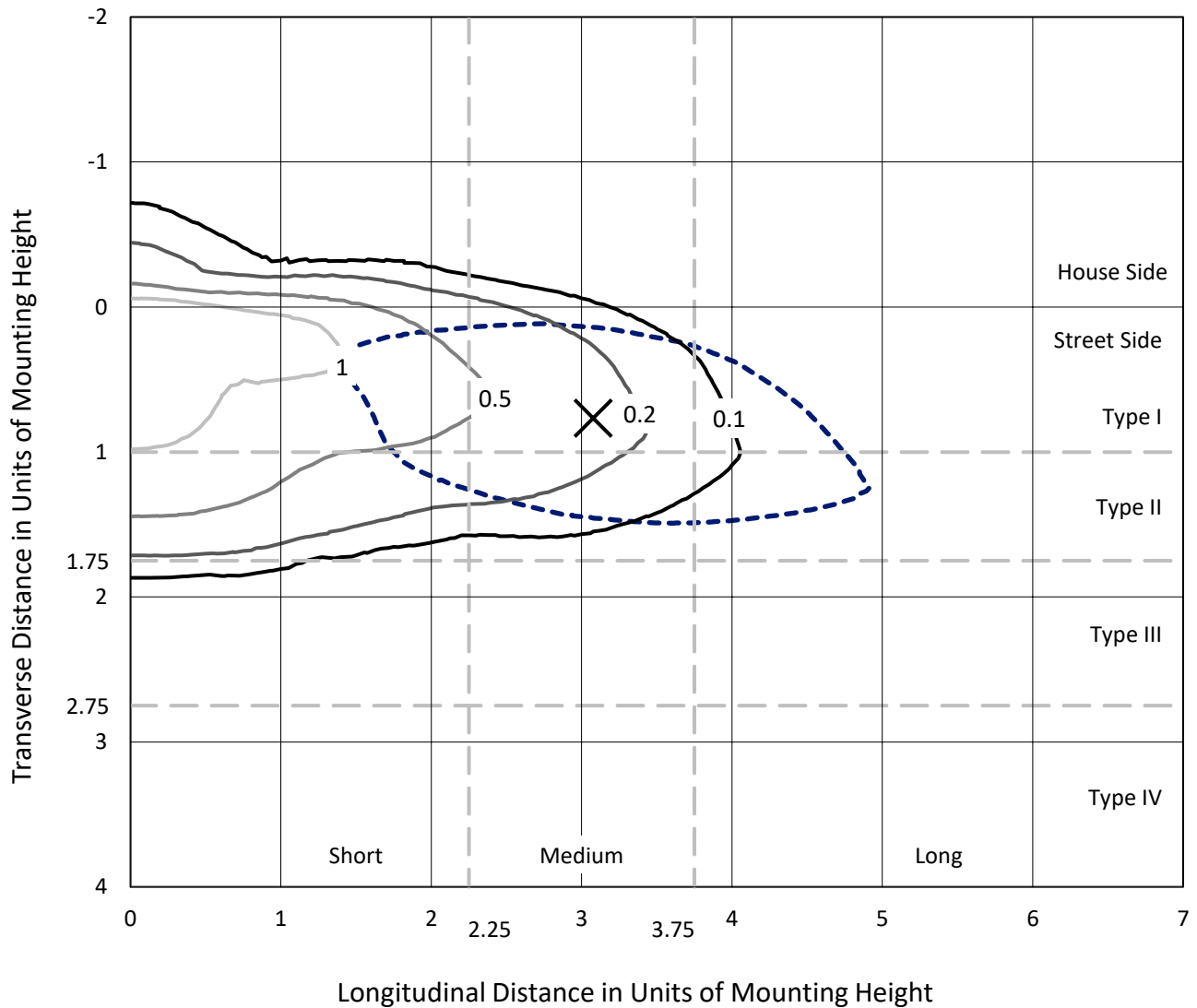
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946158
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Iso-Footcandle Lines of Horizontal Illumination

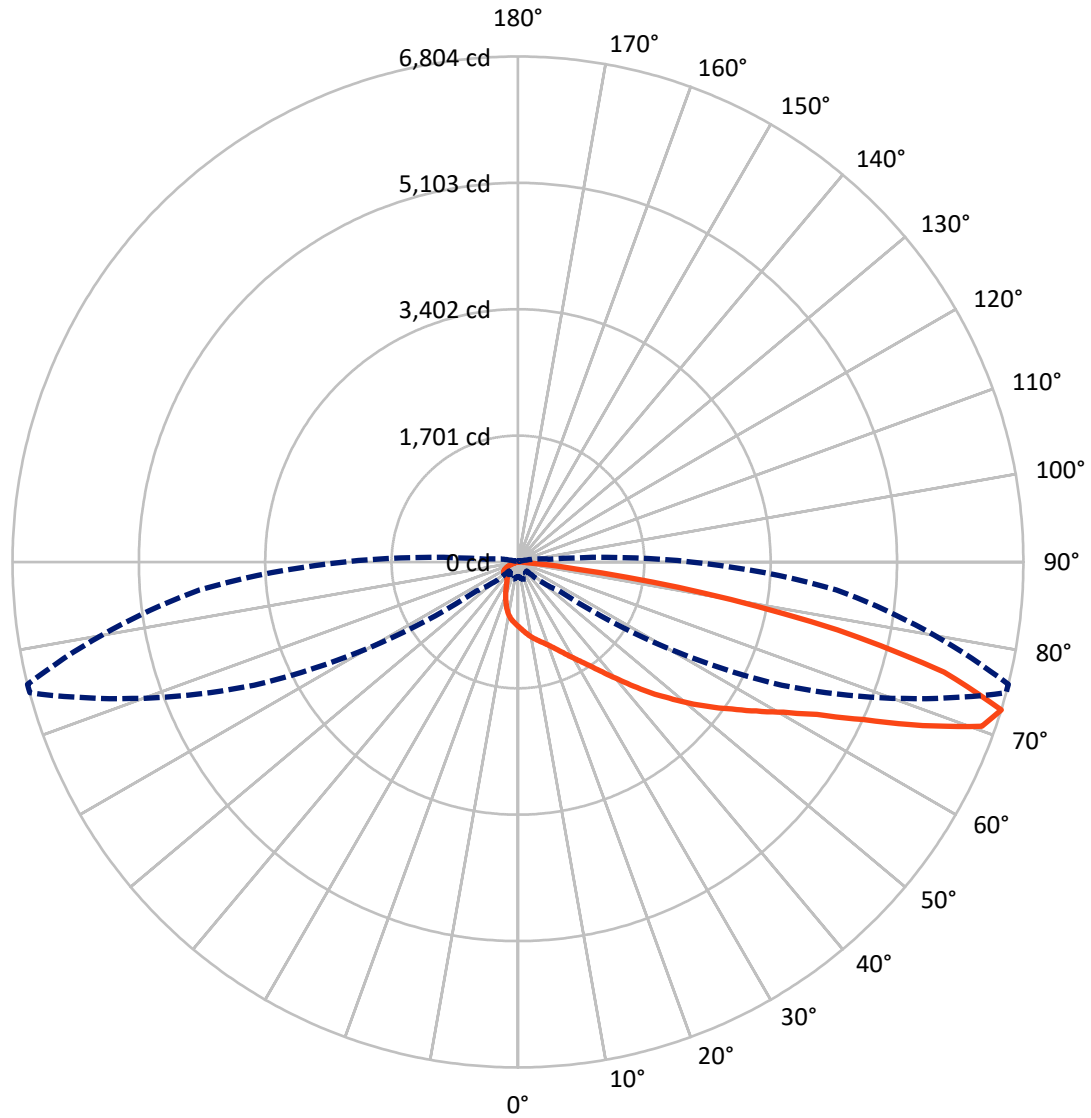
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P946158
CATALOG NUMBER: GALN-SB1D-927-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.0	0.0	514.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4508.0	0.0	4508.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	5022.0	0.0	5022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.6
10°-20°	211.6	4.2
20°-30°	335.0	6.7
30°-40°	518.2	10.3
40°-50°	787.1	15.7
50°-60°	1085.1	21.6
60°-70°	1146.4	22.8
70°-80°	786.4	15.7
80°-90°	73.2	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°	5022.0	100.0
0°-180°	5022.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946158

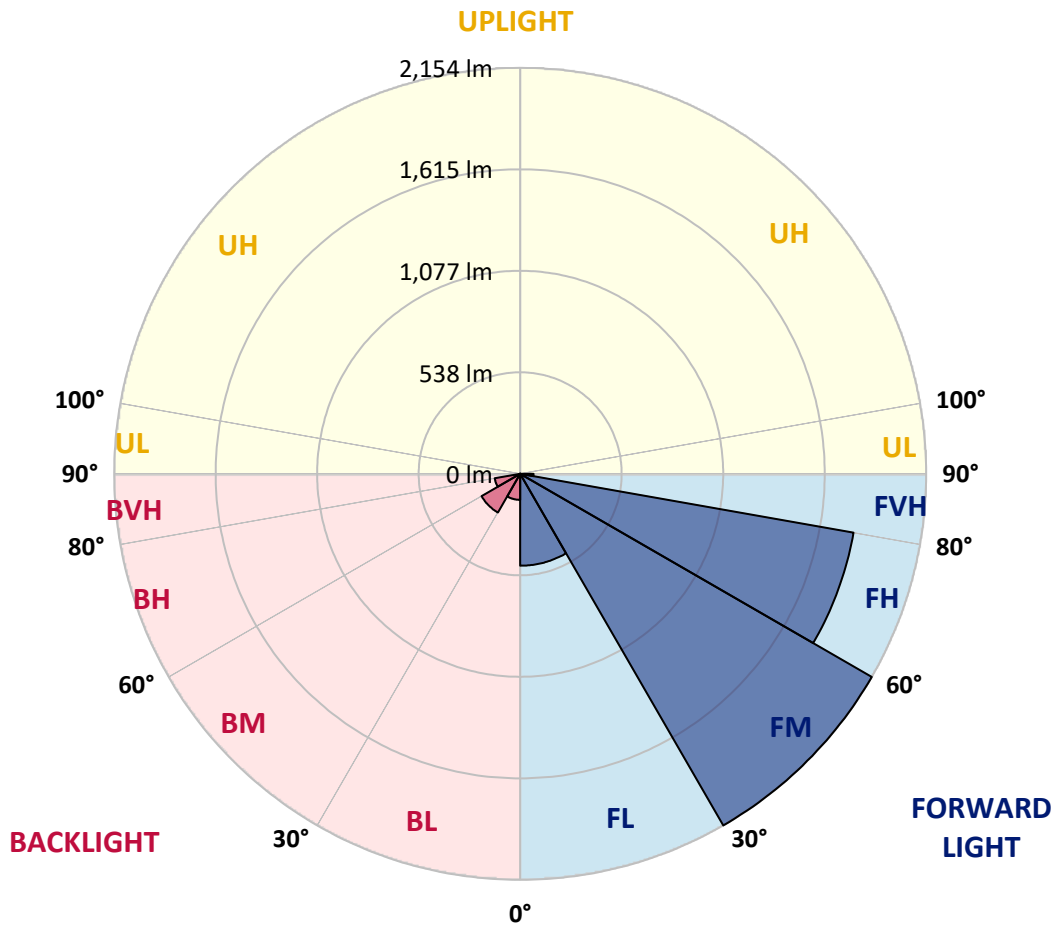
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.4	9.7			
FM (30°-60°)	2153.8	42.9			
FH (60°-80°)	1795.6	35.8			G1/1800
FVH (80°-90°)	71.2	1.4			G1/100
BL (0°-30°)	138.2	2.8	B1/500		
BM (30°-60°)	236.6	4.7	B1/1000		
BH (60°-80°)	137.2	2.7	B1/500		G1/500
BVH (80°-90°)	2.0	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-G1

Type II Medium



REPORT NUMBER: P946158
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8
2.5°	1008.9	995.5	998.2	984.8	978.6	963.6	948.0	927.5	904.7	904.7
5°	1115.1	1106.6	1106.6	1091.0	1078.9	1055.5	1027.5	991.3	948.3	944.1
7.5°	1180.3	1175.0	1178.3	1169.2	1159.4	1135.0	1101.7	1054.5	993.6	988.4
10°	1193.0	1192.6	1201.8	1204.4	1210.9	1198.5	1168.9	1114.5	1038.2	1030.7
12.5°	1143.8	1137.6	1160.1	1186.4	1223.6	1240.2	1224.9	1169.2	1078.9	1068.5
15°	1063.0	1064.3	1085.8	1126.5	1188.4	1247.7	1267.6	1222.6	1120.3	1107.9
17.5°	1016.7	1011.8	1030.4	1066.9	1135.3	1219.0	1287.4	1272.4	1164.3	1150.3
20°	1011.2	1010.9	1015.1	1031.7	1083.8	1178.0	1285.2	1321.0	1216.1	1199.8
22.5°	1049.6	1049.0	1045.4	1042.1	1056.5	1137.9	1275.4	1367.2	1278.0	1260.4
25°	1108.6	1107.6	1102.1	1082.2	1068.2	1116.4	1266.3	1410.2	1351.3	1331.7
27.5°	1180.6	1179.9	1169.8	1139.9	1103.7	1118.4	1261.7	1454.6	1436.0	1416.8
30°	1268.9	1267.6	1246.7	1204.4	1157.1	1149.3	1267.9	1504.4	1524.3	1509.6
32.5°	1379.6	1376.0	1348.7	1284.8	1218.7	1190.7	1279.6	1555.5	1628.8	1615.2
35°	1465.3	1459.8	1443.8	1387.4	1290.0	1241.5	1307.0	1616.1	1754.6	1742.5
37.5°	1538.9	1533.4	1520.4	1474.1	1392.3	1306.3	1351.0	1696.9	1903.1	1897.3
40°	1618.4	1609.3	1603.1	1553.6	1479.6	1399.8	1413.8	1791.4	2074.2	2074.8
42.5°	1679.7	1676.1	1676.7	1638.6	1564.0	1510.6	1497.2	1897.9	2279.1	2285.3
45°	1732.1	1729.2	1741.2	1714.5	1649.0	1583.2	1595.0	2018.5	2503.2	2515.9
47.5°	1772.5	1775.8	1793.0	1775.8	1737.3	1634.4	1681.6	2148.4	2738.7	2740.4
50°	1812.9	1814.2	1842.9	1834.4	1818.8	1699.2	1761.4	2293.7	2987.0	2989.9
52.5°	1825.6	1823.6	1869.3	1890.1	1890.8	1779.3	1864.7	2452.1	3230.3	3239.8
55°	1760.4	1766.0	1839.6	1924.3	1957.9	1890.1	2004.1	2652.4	3489.6	3493.5
57.5°	1441.8	1472.5	1635.4	1831.8	2001.2	2048.8	2204.5	2886.6	3789.0	3785.4
60°	875.0	911.5	1106.3	1536.3	1859.8	2208.1	2499.6	3249.5	4116.1	4106.0
62.5°	489.3	500.4	562.6	919.6	1414.5	2106.7	2787.9	3715.7	4555.2	4521.0
65°	360.6	364.2	378.9	450.5	695.2	1620.4	2724.7	4273.1	5172.2	5111.3
67.5°	313.4	317.0	331.3	341.1	310.5	851.2	2244.9	4582.2	5955.7	5875.9
70°	263.9	265.8	289.0	295.5	222.2	323.8	1442.2	4486.8	6680.8	6623.8
72.5°	196.8	204.6	238.1	253.8	178.2	172.0	678.9	3922.9	6803.7	6804.3
75°	133.6	140.7	179.2	208.8	137.5	120.5	274.0	2929.3	5924.4	5924.4
77.5°	91.2	97.1	124.8	163.9	104.2	82.7	142.0	1859.2	4250.3	4399.8
80°	40.4	44.0	80.5	118.9	79.2	53.4	80.5	1018.0	2570.3	2538.7
82.5°	19.9	22.8	51.5	74.3	51.1	32.9	42.3	484.1	833.0	791.6
85°	3.9	5.2	27.7	31.6	23.8	14.7	16.0	148.9	100.3	114.7
87.5°	0.0	0.0	8.5	5.9	2.6	3.3	3.3	13.4	7.8	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946158
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
867.8	0°	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8	867.8
882.5	2.5°	870.8	858.7	832.3	806.3	779.6	755.1	738.2	721.2	710.8	706.3
902.1	5°	877.6	853.2	797.8	739.8	682.5	626.5	584.4	545.0	532.6	512.1
925.2	7.5°	888.4	848.6	761.3	663.6	570.4	488.3	429.0	381.8	362.9	344.7
945.1	10°	895.5	840.2	713.1	582.5	456.4	364.2	307.5	273.3	260.9	249.9
963.6	12.5°	898.5	824.5	657.7	491.6	355.1	277.6	243.7	227.7	223.5	219.6
981.2	15°	901.1	809.2	595.8	404.0	280.5	232.3	218.9	213.7	210.8	208.2
999.1	17.5°	903.4	789.7	525.1	328.4	236.8	214.0	207.5	202.0	199.7	196.8
1024.9	20°	911.2	770.8	461.9	271.0	213.1	201.0	193.8	188.0	186.0	184.1
1061.4	22.5°	925.8	755.5	400.7	232.3	198.7	187.6	178.5	172.0	170.7	169.4
1105.7	25°	943.4	736.6	343.0	207.2	184.7	172.3	162.2	156.7	155.4	155.7
1156.8	27.5°	965.9	715.7	293.5	191.2	172.3	158.0	146.6	142.4	143.0	144.3
1215.8	30°	990.7	696.5	254.8	180.1	161.3	145.3	133.9	131.0	133.2	135.2
1294.6	32.5°	1027.5	679.6	227.7	171.4	151.5	134.9	125.7	122.2	124.8	127.4
1395.3	35°	1077.6	671.1	212.4	163.9	143.0	126.7	117.6	115.0	117.6	118.3
1518.1	37.5°	1139.2	670.4	205.9	157.7	135.2	119.9	109.8	108.8	110.8	111.1
1665.7	40°	1218.7	674.7	201.0	153.1	127.0	112.1	102.6	101.6	102.3	104.6
1843.2	42.5°	1319.4	692.3	194.2	147.2	118.3	104.2	96.8	94.5	94.1	96.8
2041.9	45°	1445.8	731.0	185.0	137.8	110.4	97.7	90.2	87.6	86.7	87.3
2247.1	47.5°	1583.6	778.6	175.9	129.0	104.9	92.5	85.0	81.8	80.1	80.1
2439.0	50°	1717.1	832.3	169.7	119.9	101.0	87.6	79.5	76.2	73.6	73.0
2636.4	52.5°	1849.4	885.1	164.8	110.8	96.4	81.4	74.3	70.7	67.8	66.5
2831.9	55°	1969.9	935.3	156.4	102.0	90.6	74.9	69.1	65.5	61.9	59.6
3030.0	57.5°	2085.6	977.0	140.7	92.8	81.4	68.7	63.5	59.6	55.4	52.4
3230.3	60°	2190.8	998.5	121.2	83.1	72.3	62.2	57.3	53.8	48.2	43.3
3427.4	62.5°	2270.9	990.0	100.0	72.0	62.9	56.4	50.2	46.6	40.1	34.2
3663.6	65°	2353.0	943.7	79.8	60.3	55.1	48.5	42.0	38.4	30.9	24.8
3983.2	67.5°	2459.5	845.0	62.9	50.2	47.6	38.4	32.9	30.6	25.4	19.5
4326.2	70°	2528.0	656.4	48.9	40.7	39.1	28.0	25.4	25.1	20.2	15.0
4303.1	72.5°	2340.3	430.3	37.5	30.9	28.0	18.2	19.5	19.5	14.7	10.1
3772.1	75°	1953.6	251.8	27.0	22.2	16.0	11.7	13.4	13.4	9.1	4.9
2688.6	77.5°	1395.3	134.2	17.9	13.7	8.1	5.2	7.2	6.8	2.9	0.3
1053.9	80°	533.6	46.3	8.5	5.5	2.3	1.0	0.7	0.3	0.3	0.0
164.5	82.5°	81.4	12.1	1.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
34.9	85°	14.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	3.3	0.0	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>
867.8
706.9
513.4
344.3
249.5
219.6
208.2
196.8
184.4
168.4
155.1
143.7
134.5
126.7
117.9
110.4
104.2
96.4
88.3
80.1
72.6
65.8
58.6
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