

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: P946802

Luminaire Tested: **GALN-SB2B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946802
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-SB2B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA 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: 7794 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

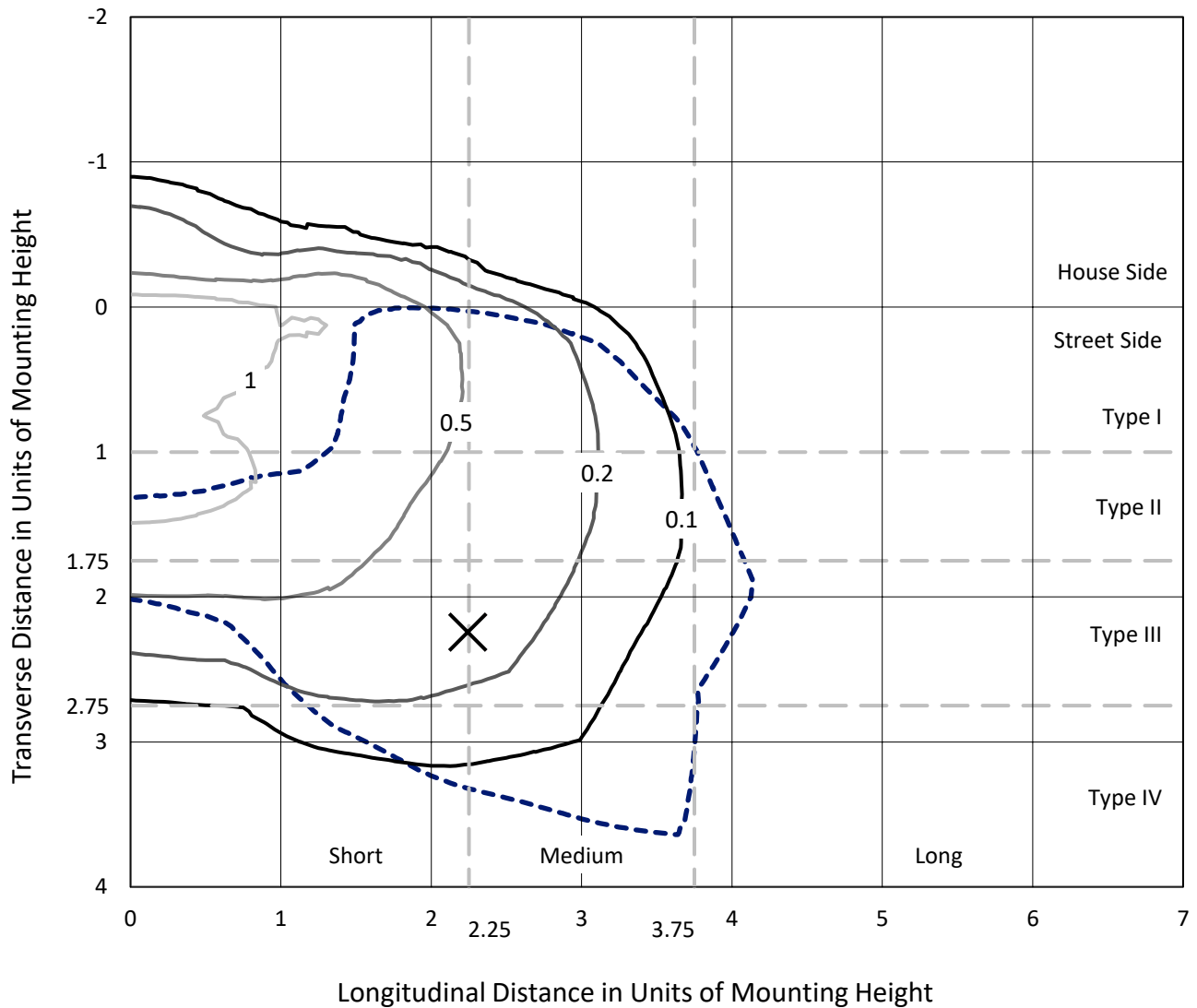
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

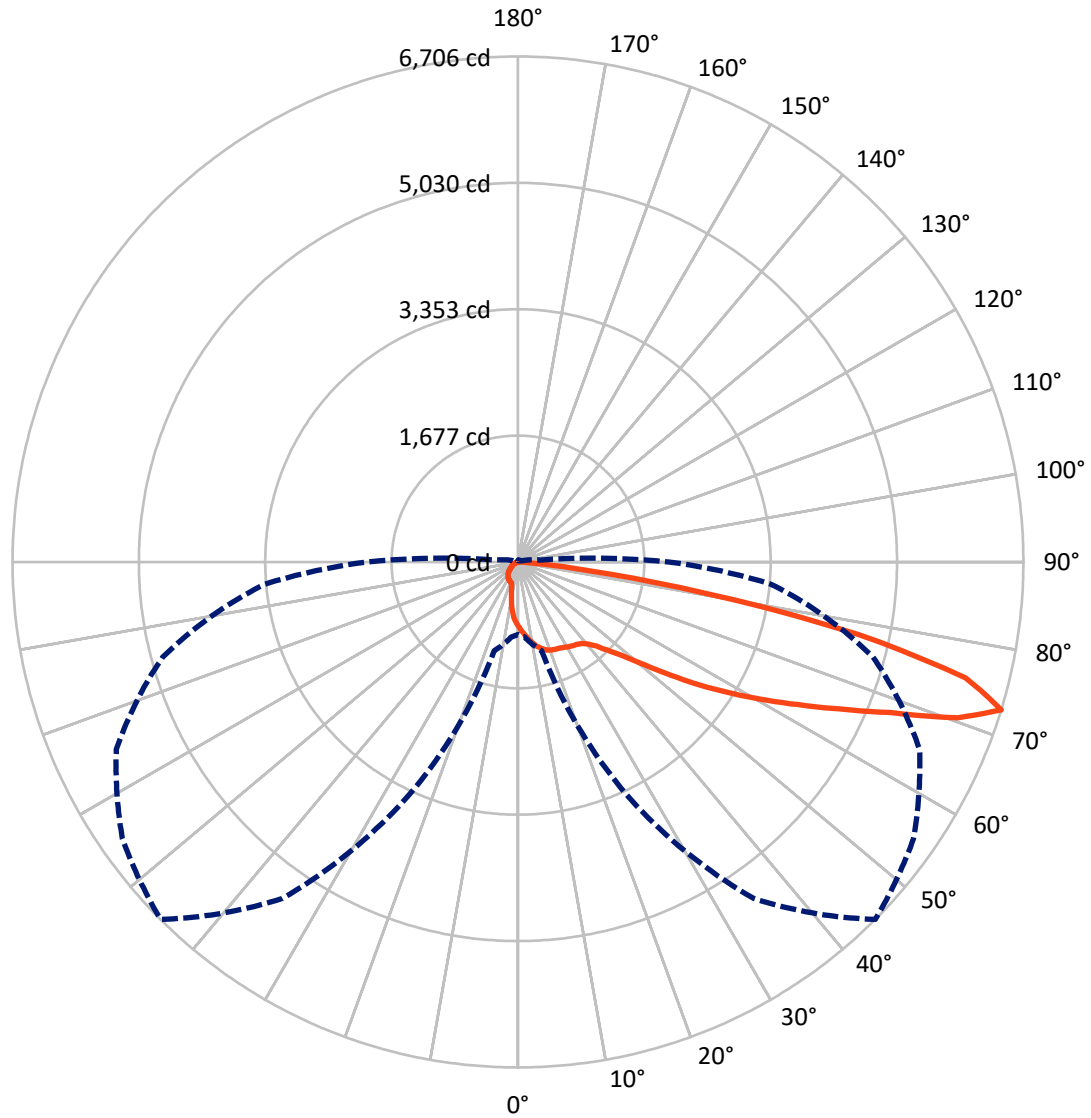
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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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	818.9	0.0	818.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6975.1	0.0	6975.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	7794.0	0.0	7794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.0
10°-20°	235.1	3.0
20°-30°	386.1	5.0
30°-40°	547.6	7.0
40°-50°	905.1	11.6
50°-60°	1625.9	20.9
60°-70°	2257.7	29.0
70°-80°	1637.6	21.0
80°-90°	118.4	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°	7794.0	100.0
0°-180°	7794.0	100.0

Coefficient of Utilization



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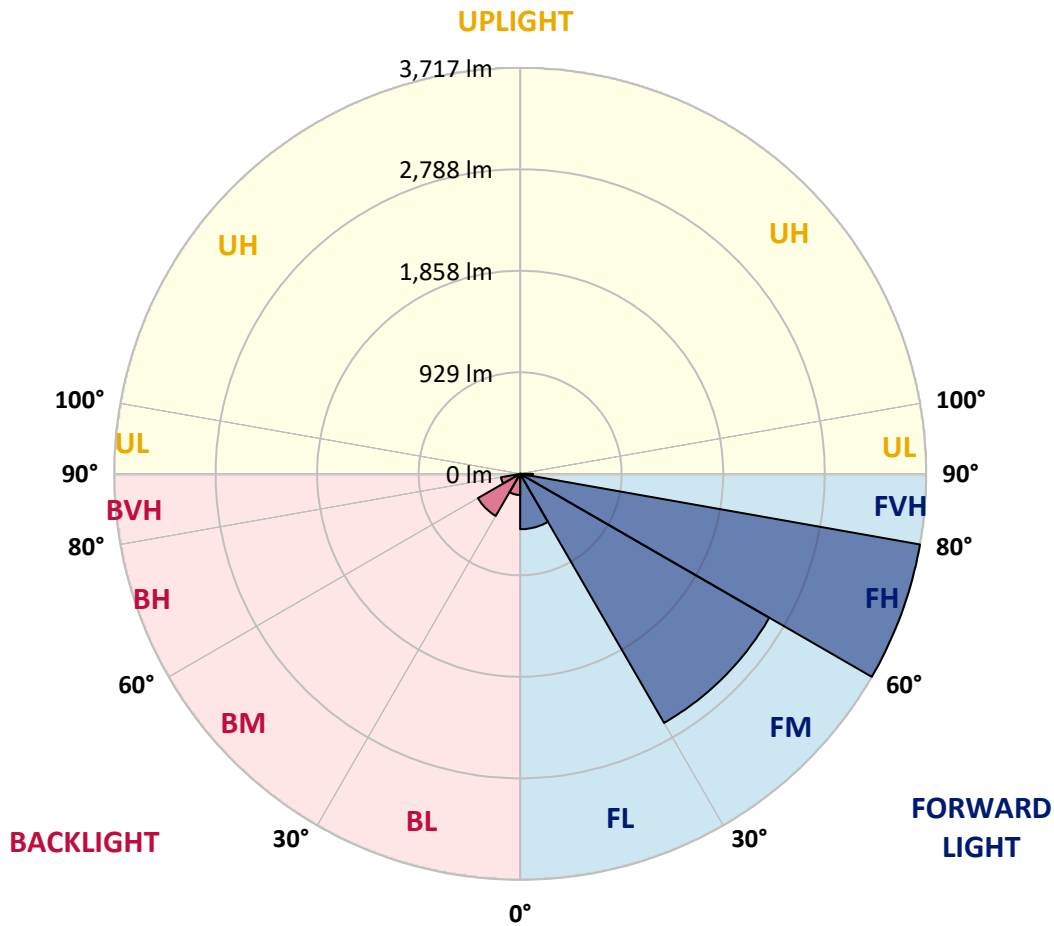
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.7	6.5			
FM (30°-60°)	2633.2	33.8			
FH (60°-80°)	3716.7	47.7			G2/5000
FVH (80°-90°)	117.4	1.5			G2/225
BL (0°-30°)	194.0	2.5	B1/500		
BM (30°-60°)	445.4	5.7	B1/1000		
BH (60°-80°)	178.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	932.6	934.2	933.1	926.7	916.1	910.2	907.0	896.4	889.5	877.3
5°	1018.2	1024.6	1020.9	1008.1	987.9	973.5	969.3	947.5	927.8	904.9
7.5°	1109.2	1112.4	1105.5	1089.0	1061.9	1037.4	1033.7	1003.3	972.0	936.8
10°	1187.9	1191.7	1181.0	1157.1	1126.2	1095.9	1090.6	1057.1	1019.8	976.7
12.5°	1253.9	1257.6	1243.8	1215.1	1181.0	1149.6	1144.3	1109.2	1068.2	1020.4
15°	1303.9	1310.8	1292.2	1261.4	1224.6	1193.3	1190.6	1156.0	1116.1	1062.9
17.5°	1333.2	1340.1	1322.5	1285.3	1253.9	1227.3	1224.1	1195.4	1158.1	1107.1
20°	1338.0	1344.3	1325.7	1293.3	1267.2	1245.9	1244.3	1223.6	1196.5	1147.5
22.5°	1323.6	1331.6	1314.6	1288.5	1270.4	1259.2	1257.1	1245.4	1230.0	1188.5
25°	1308.7	1315.1	1302.3	1279.4	1269.9	1268.8	1270.4	1268.3	1265.1	1230.0
27.5°	1307.6	1314.6	1300.2	1278.4	1273.1	1284.2	1285.8	1295.9	1298.6	1267.7
30°	1316.7	1321.5	1307.6	1284.8	1282.1	1307.6	1308.2	1326.3	1330.5	1299.7
32.5°	1336.4	1341.7	1327.9	1294.3	1290.6	1326.3	1327.9	1351.8	1358.7	1333.7
35°	1382.7	1389.0	1373.1	1320.9	1307.6	1343.8	1348.6	1376.8	1390.6	1369.9
37.5°	1498.1	1479.5	1457.7	1374.7	1346.5	1371.5	1379.5	1412.4	1436.9	1413.0
40°	1784.8	1726.3	1658.2	1466.2	1414.6	1430.5	1436.9	1469.9	1503.4	1480.0
42.5°	2215.2	2146.1	2036.5	1676.8	1517.2	1525.2	1530.0	1558.7	1606.1	1587.5
45°	2598.8	2573.8	2462.1	2036.5	1709.3	1669.9	1675.8	1690.7	1760.4	1753.4
47.5°	2893.5	2879.1	2793.0	2449.3	2033.8	1847.1	1863.6	1870.5	1971.0	1995.5
50°	3120.1	3114.8	3037.7	2816.4	2457.8	2108.3	2114.1	2099.2	2249.8	2310.4
52.5°	3334.0	3352.1	3295.2	3157.4	2910.5	2450.4	2449.3	2379.1	2582.3	2673.8
55°	3527.1	3533.5	3539.4	3505.3	3365.9	2839.8	2829.7	2714.8	2968.0	3062.7
57.5°	3708.5	3711.2	3763.3	3833.0	3839.9	3257.9	3239.3	3101.5	3389.3	3456.9
60°	3830.4	3842.6	3952.7	4146.4	4230.9	3689.4	3679.3	3538.8	3818.1	3849.5
62.5°	3654.8	3729.3	4007.0	4391.1	4600.1	4167.6	4162.8	4030.9	4269.2	4243.7
65°	2958.4	3084.5	3572.9	4556.5	4962.4	4701.8	4708.7	4568.2	4732.6	4649.6
67.5°	2069.5	2202.5	2780.2	4569.8	5367.3	5329.0	5368.9	5148.6	5224.7	5038.5
70°	1431.1	1499.7	1875.8	4283.6	5682.8	6192.9	6191.9	5861.5	5714.1	5215.7
72.5°	962.4	998.0	1218.3	3398.4	5450.8	6706.3	6675.5	6406.3	5879.1	4877.8
75°	405.9	432.0	563.9	1909.9	4312.3	6135.5	6052.0	5661.5	5223.6	3841.0
77.5°	128.7	139.9	222.4	683.6	2375.4	4611.9	4523.5	3535.6	3501.0	1926.9
80°	61.2	71.3	125.0	274.5	934.7	2508.3	2496.1	1604.0	1506.1	520.3
82.5°	26.6	31.4	69.2	146.8	418.1	894.8	912.9	545.8	451.7	197.4
85°	8.5	11.2	31.9	67.6	176.6	222.4	219.7	129.8	181.9	107.5
87.5°	0.0	0.0	10.6	15.4	18.1	12.8	14.4	11.2	50.5	29.8
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°
853.8	0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
864.5	2.5°	858.1	849.6	834.7	820.9	808.6	796.4	788.9	778.3	777.2	777.2
878.3	5°	864.0	850.1	823.5	795.3	762.9	732.0	701.2	671.4	661.8	654.9
900.7	7.5°	881.0	859.2	817.1	763.4	701.7	634.1	586.8	535.7	516.0	505.4
930.5	10°	905.5	875.7	811.8	717.7	617.6	525.6	458.0	402.7	381.4	372.4
962.9	12.5°	932.6	895.9	802.2	660.7	525.6	415.5	349.5	324.0	320.8	320.8
1001.7	15°	965.0	920.3	785.8	593.7	429.3	328.8	305.4	306.4	309.6	311.7
1039.5	17.5°	998.6	946.4	759.7	518.7	344.2	295.8	296.3	297.9	300.6	302.7
1080.5	20°	1034.7	972.5	725.1	438.9	295.3	286.2	287.8	289.4	291.5	292.6
1118.8	22.5°	1073.6	997.0	684.1	360.7	278.8	278.2	278.8	280.4	283.0	283.0
1163.5	25°	1115.1	1024.1	637.3	303.8	270.3	270.3	271.3	272.4	274.5	274.5
1206.6	27.5°	1157.6	1049.1	587.9	274.0	262.8	262.3	262.3	263.9	264.9	265.5
1249.1	30°	1204.4	1078.4	538.4	267.6	257.0	254.3	252.7	253.8	254.8	255.4
1293.8	32.5°	1252.3	1106.5	494.2	270.3	251.1	246.3	241.0	239.9	239.9	242.1
1340.1	35°	1305.5	1137.4	460.2	279.3	247.9	234.6	226.1	221.3	221.8	225.0
1395.4	37.5°	1369.4	1174.6	435.2	287.3	245.8	221.3	207.5	201.6	197.9	201.6
1471.5	40°	1452.9	1229.4	417.1	293.7	243.1	205.9	187.3	177.7	170.8	172.9
1589.6	42.5°	1575.8	1315.6	410.2	294.2	237.3	187.8	166.5	153.7	143.6	144.2
1767.3	45°	1748.1	1451.8	445.8	287.3	224.5	168.1	144.7	127.7	121.3	119.7
2032.7	47.5°	1984.3	1650.2	528.3	272.9	205.9	149.0	123.4	109.1	104.3	101.6
2381.2	50°	2300.9	1905.1	619.8	257.0	187.3	130.9	105.9	96.8	93.6	91.0
2794.6	52.5°	2667.9	2163.6	694.8	241.0	168.6	114.9	94.7	89.4	86.7	84.6
3193.6	55°	3004.7	2341.8	690.5	224.0	150.6	102.1	86.7	83.5	80.3	78.2
3537.2	57.5°	3214.3	2366.8	569.2	205.3	129.8	92.0	79.3	77.1	73.4	70.8
3834.6	60°	3310.6	2224.3	399.0	180.9	109.1	82.5	71.3	70.2	65.4	61.7
4116.0	62.5°	3328.2	1959.3	266.0	150.6	91.0	73.4	63.3	61.7	55.3	48.9
4344.8	65°	3256.9	1580.6	184.1	117.6	77.7	63.8	54.3	51.1	44.2	37.8
4399.1	67.5°	3031.3	1109.7	128.2	84.6	66.0	50.5	43.1	42.0	36.7	31.4
4122.4	70°	2617.9	632.5	85.7	63.3	52.1	34.6	34.0	35.1	29.8	25.5
3368.0	72.5°	2007.2	289.4	53.2	46.3	35.6	23.4	27.1	27.7	22.9	19.2
2101.4	75°	1181.6	124.0	33.5	29.8	18.1	15.4	19.7	20.2	15.4	12.2
768.2	77.5°	402.2	46.8	21.3	17.6	9.0	8.5	12.8	12.8	8.5	4.8
154.3	80°	91.5	17.6	10.6	6.9	4.3	3.7	4.3	3.7	2.1	0.5
47.3	82.5°	26.1	6.9	4.3	2.7	1.6	1.6	0.5	0.0	0.0	0.0
16.5	85°	7.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	3.2	0.5	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>
853.8
779.9
658.1
507.0
372.4
320.8
311.7
302.7
293.1
284.1
275.0
266.0
256.4
243.7
226.6
200.6
171.8
142.0
117.6
100.0
90.4
84.1
77.1
70.2
60.6
45.8
35.6
29.8
23.4
17.0
10.6
3.7
0.0
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