

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: P947323

Luminaire Tested: **GALN-SB2C-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7962 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

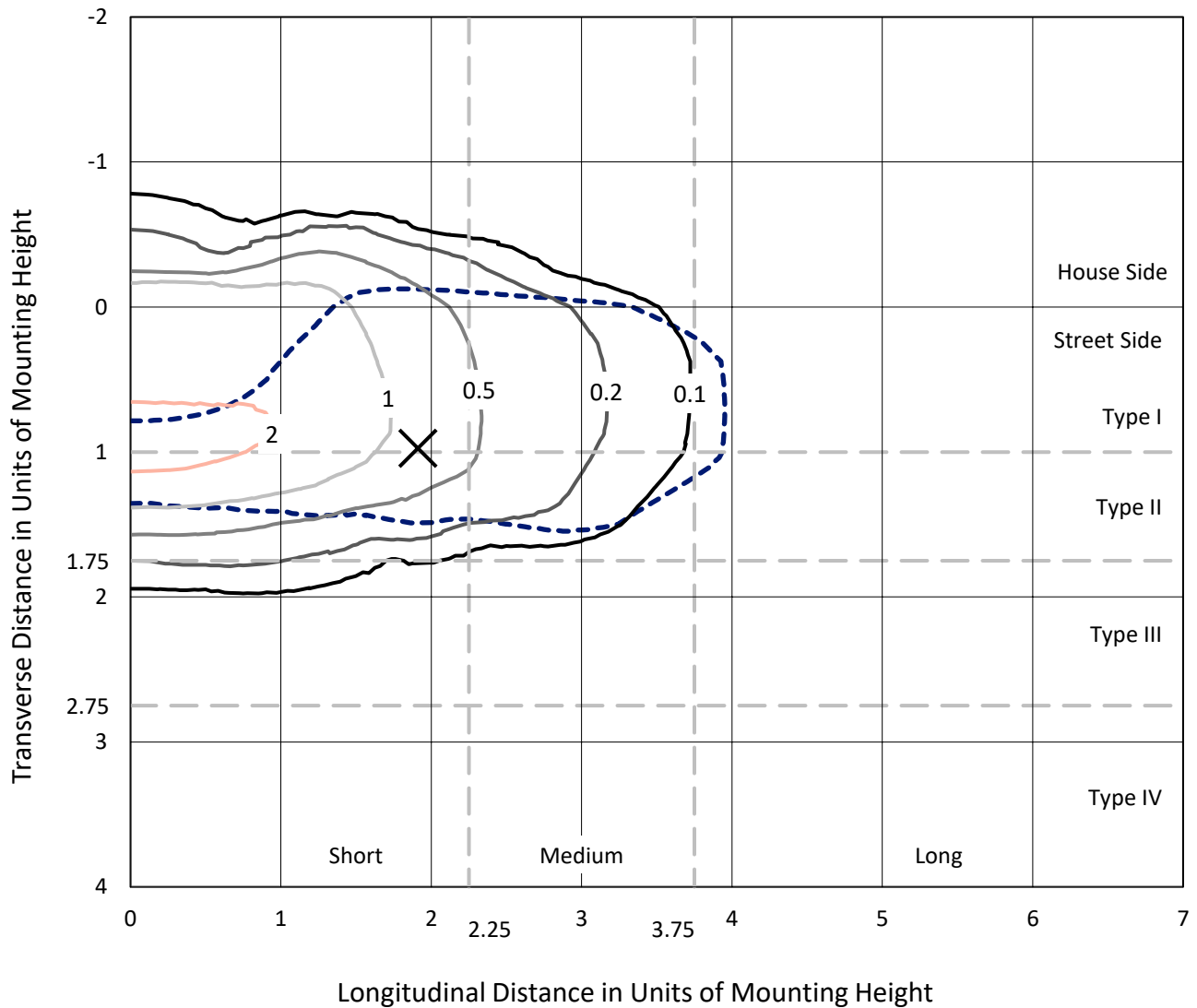
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

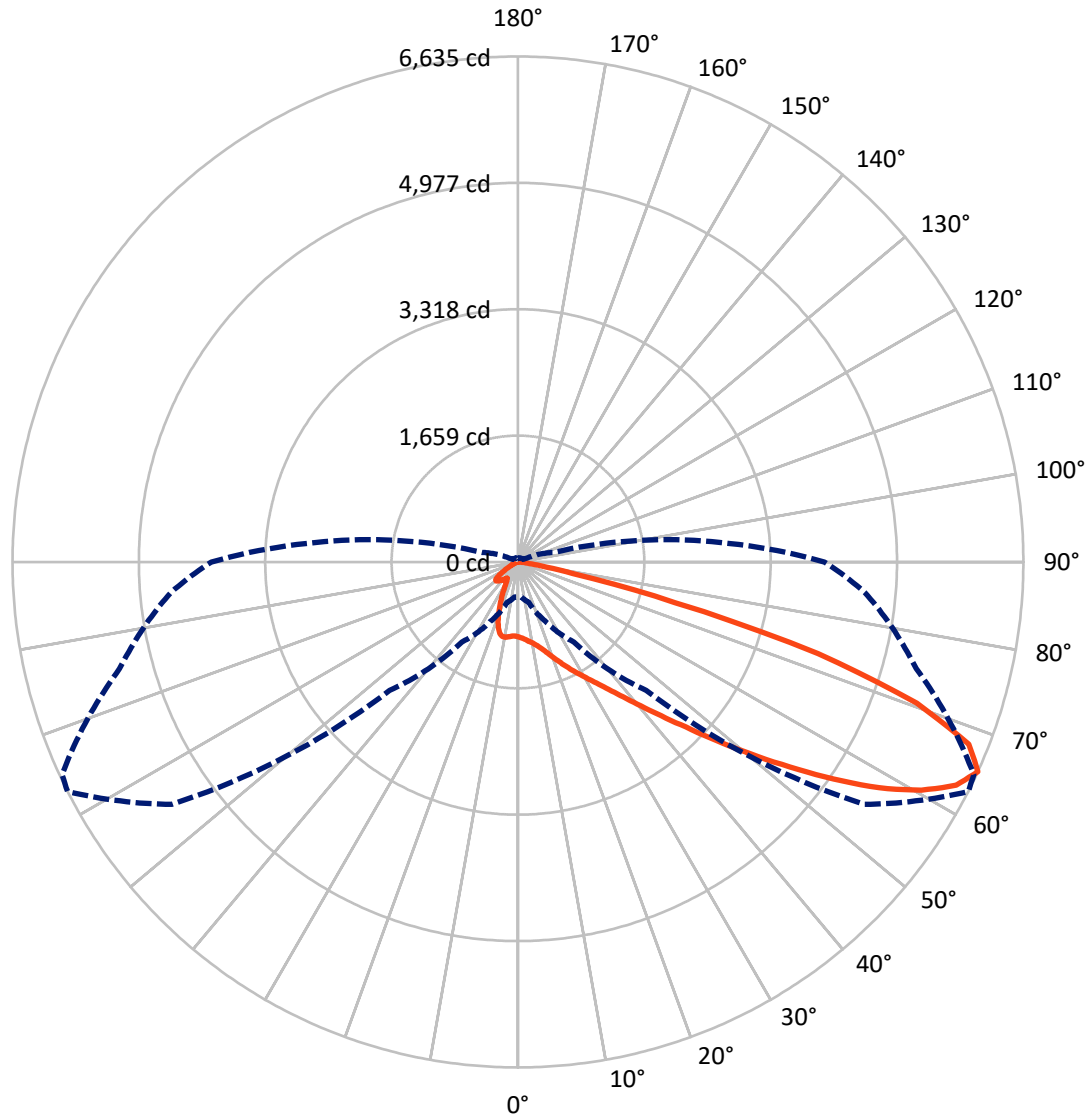
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1170.3	0.0	1170.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6791.7	0.0	6791.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	7962.0	0.0	7962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.2
10°-20°	256.9	3.2
20°-30°	447.3	5.6
30°-40°	806.2	10.1
40°-50°	1599.0	20.1
50°-60°	2178.1	27.4
60°-70°	1738.6	21.8
70°-80°	786.7	9.9
80°-90°	56.5	0.7
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°	7962.0	100.0
0°-180°	7962.0	100.0

Coefficient of Utilization



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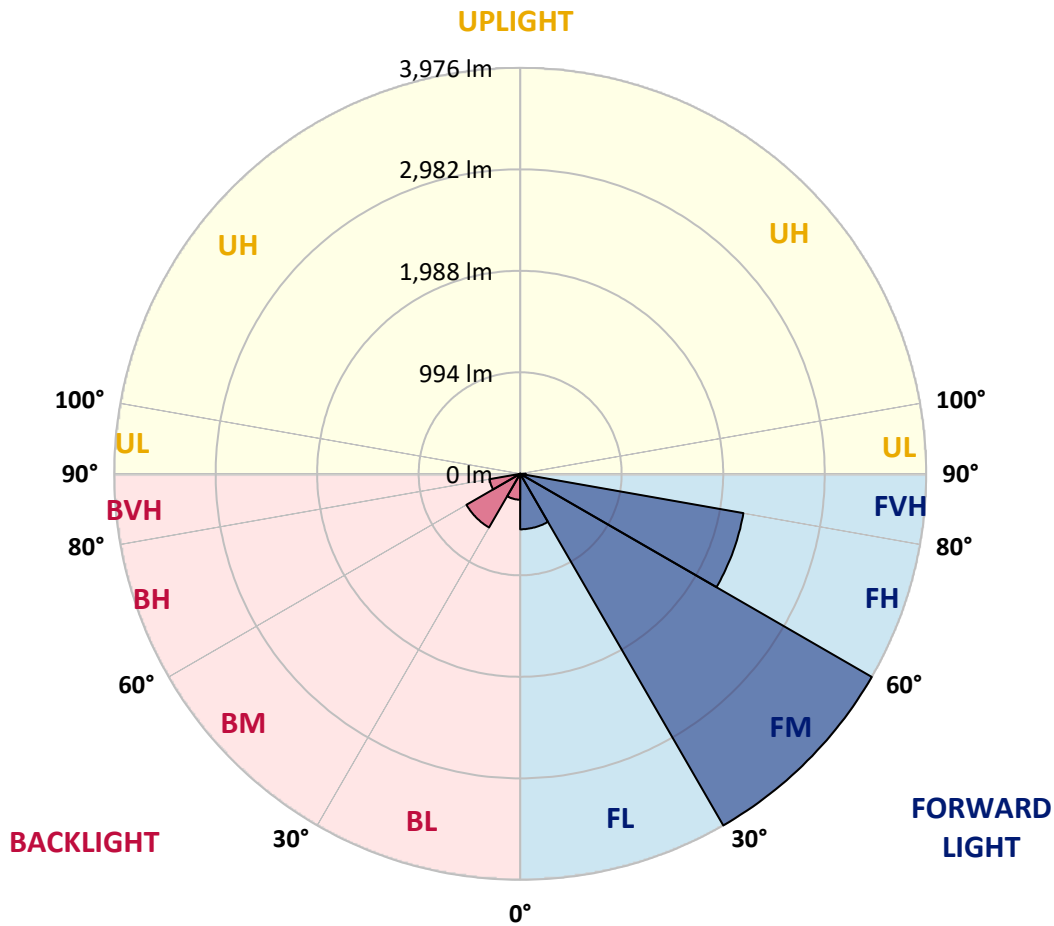
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.5	6.8			
FM (30°-60°)	3976.0	49.9			
FH (60°-80°)	2219.8	27.9			G2/5000
FVH (80°-90°)	52.4	0.7			G1/100
BL (0°-30°)	253.3	3.2	B1/500		
BM (30°-60°)	607.3	7.6	B1/1000		
BH (60°-80°)	305.5	3.8	B1/500		G1/500
BVH (80°-90°)	4.2	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	1005.7	1002.9	1006.8	1005.1	1004.0	1001.8	1000.7	999.6	997.5	995.8
5°	1008.4	1006.8	1010.6	1013.9	1017.2	1020.5	1022.1	1024.3	1022.1	1017.7
7.5°	985.4	984.3	992.5	1002.4	1017.2	1029.8	1043.5	1051.1	1051.7	1050.0
10°	983.8	981.0	989.2	1001.3	1020.5	1042.9	1067.0	1083.4	1085.6	1092.8
12.5°	1009.5	1006.8	1018.3	1031.4	1051.1	1074.7	1104.3	1127.3	1130.6	1140.4
15°	1052.8	1048.9	1062.1	1079.1	1104.3	1131.1	1162.3	1183.1	1185.9	1197.9
17.5°	1103.2	1099.3	1114.7	1132.7	1160.1	1196.8	1233.0	1256.0	1259.3	1266.9
20°	1167.8	1162.9	1174.9	1191.4	1220.4	1264.2	1307.5	1340.3	1339.8	1339.8
22.5°	1242.8	1235.2	1245.6	1258.7	1286.1	1339.2	1396.8	1435.6	1435.6	1420.3
25°	1323.4	1315.7	1327.2	1339.2	1363.3	1423.6	1491.0	1539.2	1541.4	1515.1
27.5°	1424.1	1414.3	1423.1	1437.3	1451.5	1512.9	1592.9	1648.7	1649.8	1609.3
30°	1618.0	1590.1	1562.7	1547.4	1554.0	1614.8	1700.2	1762.1	1767.6	1711.7
32.5°	1973.0	1967.5	1871.1	1745.1	1679.4	1724.3	1820.2	1894.7	1897.9	1826.2
35°	2524.6	2518.0	2363.0	2123.1	1908.9	1871.1	1965.9	2054.1	2051.9	1970.8
37.5°	3183.0	3176.9	2972.6	2651.7	2304.9	2092.9	2153.7	2246.3	2260.0	2153.7
40°	3745.5	3723.0	3593.8	3284.3	2830.8	2461.0	2421.0	2482.4	2496.6	2370.7
42.5°	4171.7	4152.5	4086.8	3893.4	3467.2	3005.5	2736.0	2759.6	2775.4	2624.3
45°	4392.4	4388.0	4414.3	4396.2	4115.8	3673.8	3186.3	3088.2	3094.2	2905.3
47.5°	4423.6	4421.4	4541.4	4711.2	4673.4	4427.5	3764.1	3497.9	3476.6	3222.4
50°	4239.6	4235.2	4465.2	4783.5	5045.9	5060.7	4420.3	3959.7	3912.6	3550.5
52.5°	3651.8	3650.7	4028.7	4558.4	5176.8	5615.0	5068.9	4466.9	4388.0	3897.8
55°	2810.0	2830.2	3263.5	3889.6	4938.0	5881.7	5651.1	5030.0	4908.9	4247.2
57.5°	1990.5	2020.1	2448.4	3006.0	4197.4	5724.0	6045.0	5594.2	5463.8	4595.6
60°	1069.2	1095.5	1524.4	2189.9	3122.7	5135.7	6252.6	6083.8	5960.6	4926.5
62.5°	637.0	645.8	823.3	1413.7	2112.1	3923.5	6164.4	6456.9	6355.5	5204.2
65°	457.4	459.0	548.3	863.3	1282.3	2383.8	5546.0	6635.4	6604.2	5413.4
67.5°	385.1	384.0	421.2	573.5	873.7	1194.1	4250.5	6382.9	6515.5	5546.0
70°	330.3	331.9	375.8	420.1	656.8	675.9	2113.2	5557.5	5840.1	5581.0
72.5°	245.9	251.4	292.0	382.9	495.7	465.0	729.6	4120.7	4631.8	5258.4
75°	173.6	176.4	205.4	322.1	369.7	338.5	372.5	2130.2	2785.3	4031.4
77.5°	133.7	138.6	155.6	225.1	364.3	237.7	227.9	737.3	1132.7	2435.3
80°	72.3	81.1	112.3	162.7	255.8	168.2	112.8	293.6	384.0	1138.8
82.5°	37.2	41.6	78.3	117.2	145.7	146.8	55.9	122.1	158.3	351.7
85°	14.8	18.1	52.6	64.6	75.0	72.3	25.2	49.3	57.0	97.5
87.5°	3.3	5.5	19.2	14.8	14.2	15.3	6.0	11.5	11.0	11.5
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°
982.7	0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
989.2	2.5°	988.7	986.5	980.5	973.9	966.2	961.8	959.1	958.6	954.7	952.0
1011.1	5°	1005.1	1002.9	991.4	977.7	962.9	951.4	940.5	930.6	916.4	913.6
1042.9	7.5°	1038.0	1032.0	1013.3	994.7	966.8	933.4	892.8	846.3	804.6	792.0
1085.1	10°	1078.5	1070.3	1046.7	1013.9	952.0	861.1	763.0	672.1	599.8	579.5
1134.9	12.5°	1124.5	1117.4	1086.2	1025.4	890.1	725.2	575.1	462.3	392.2	374.7
1188.1	15°	1179.3	1168.9	1125.6	1007.9	779.4	551.0	394.9	328.1	302.9	299.6
1248.9	17.5°	1237.4	1220.4	1160.7	944.9	630.5	391.6	305.1	285.9	275.0	271.7
1310.2	20°	1290.5	1268.6	1181.5	849.6	471.1	305.1	273.3	260.7	250.9	247.0
1371.6	22.5°	1343.6	1312.4	1181.5	719.7	353.3	270.6	250.9	239.4	227.9	222.9
1437.3	25°	1399.0	1357.3	1160.7	575.1	284.3	248.1	229.5	216.9	207.0	201.0
1499.7	27.5°	1452.6	1395.1	1113.0	438.2	253.1	228.4	209.8	197.7	188.4	184.0
1567.7	30°	1503.6	1432.4	1046.2	332.5	232.8	209.2	191.7	181.3	172.0	167.6
1655.8	32.5°	1572.6	1479.5	975.0	272.8	215.3	191.2	175.3	165.4	157.2	153.9
1770.3	35°	1668.4	1549.0	913.6	267.8	200.5	176.4	160.5	151.2	143.0	140.2
1918.2	37.5°	1804.3	1661.3	881.3	300.7	188.4	163.2	148.4	138.6	130.9	128.7
2106.1	40°	1971.9	1813.6	898.9	333.6	180.2	151.7	137.5	127.6	121.1	118.3
2321.9	42.5°	2170.7	2001.5	995.8	358.8	174.7	141.9	127.1	116.1	111.7	110.6
2566.8	45°	2399.1	2208.0	1144.2	385.6	166.0	132.6	116.7	108.5	105.2	104.6
2833.0	47.5°	2658.8	2434.7	1316.2	419.0	157.2	123.8	108.5	103.0	100.2	99.1
3110.7	50°	2916.2	2663.2	1493.2	437.7	150.1	115.6	101.9	97.5	95.3	94.8
3404.3	52.5°	3185.7	2898.1	1636.1	420.1	144.1	109.0	96.4	93.1	90.9	90.4
3674.8	55°	3442.6	3088.2	1660.8	356.6	132.0	102.4	90.4	88.7	86.0	86.0
3949.3	57.5°	3663.9	3183.5	1486.6	261.8	120.0	92.6	84.4	82.7	80.5	80.0
4196.9	60°	3867.1	3156.1	1147.5	176.4	106.8	82.7	76.7	75.6	73.4	70.7
4412.1	62.5°	3981.6	3035.6	784.9	115.0	93.7	72.3	67.9	67.4	62.4	57.0
4571.5	65°	4024.9	2788.0	489.7	83.8	78.3	61.9	58.6	57.5	50.4	44.4
4661.9	67.5°	3987.1	2380.5	247.0	66.3	61.9	51.5	48.2	48.2	43.3	37.8
4656.4	70°	3835.9	1784.6	104.1	53.1	47.7	39.4	39.4	41.6	36.7	30.7
4414.9	72.5°	3507.8	1200.7	55.3	40.5	35.6	27.9	32.3	34.0	29.0	23.0
3613.5	75°	2788.6	732.3	38.3	30.1	22.5	19.7	24.6	25.7	19.7	15.3
2477.5	77.5°	1907.3	420.7	25.7	19.2	14.2	11.5	17.0	15.9	10.4	7.1
955.3	80°	837.5	175.3	14.8	8.8	5.5	4.4	6.0	4.4	3.3	2.2
130.9	82.5°	98.0	41.1	5.5	3.3	2.2	1.1	0.5	0.0	0.0	0.0
40.0	85°	20.3	4.9	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	3.8	1.1	0.5	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>
982.7
954.7
912.5
786.0
571.8
369.7
296.3
270.0
244.8
220.2
198.8
184.0
168.2
153.9
140.2
128.2
117.8
110.6
104.1
99.1
94.8
90.4
85.4
79.4
70.1
55.9
43.8
37.2
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