

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: P946233

Luminaire Tested: **GALN-SB1D-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946233
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-SB1D-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6141 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

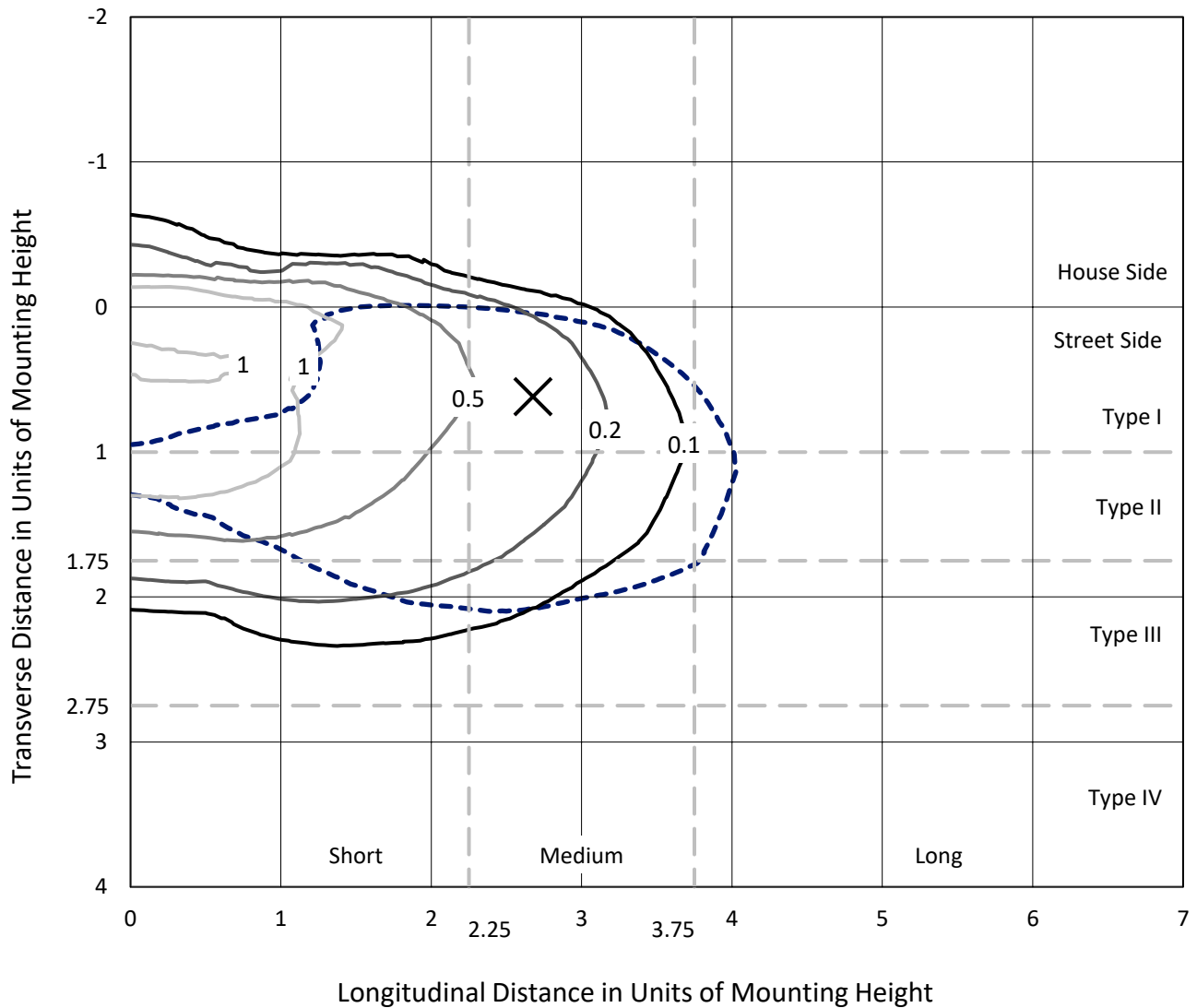
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

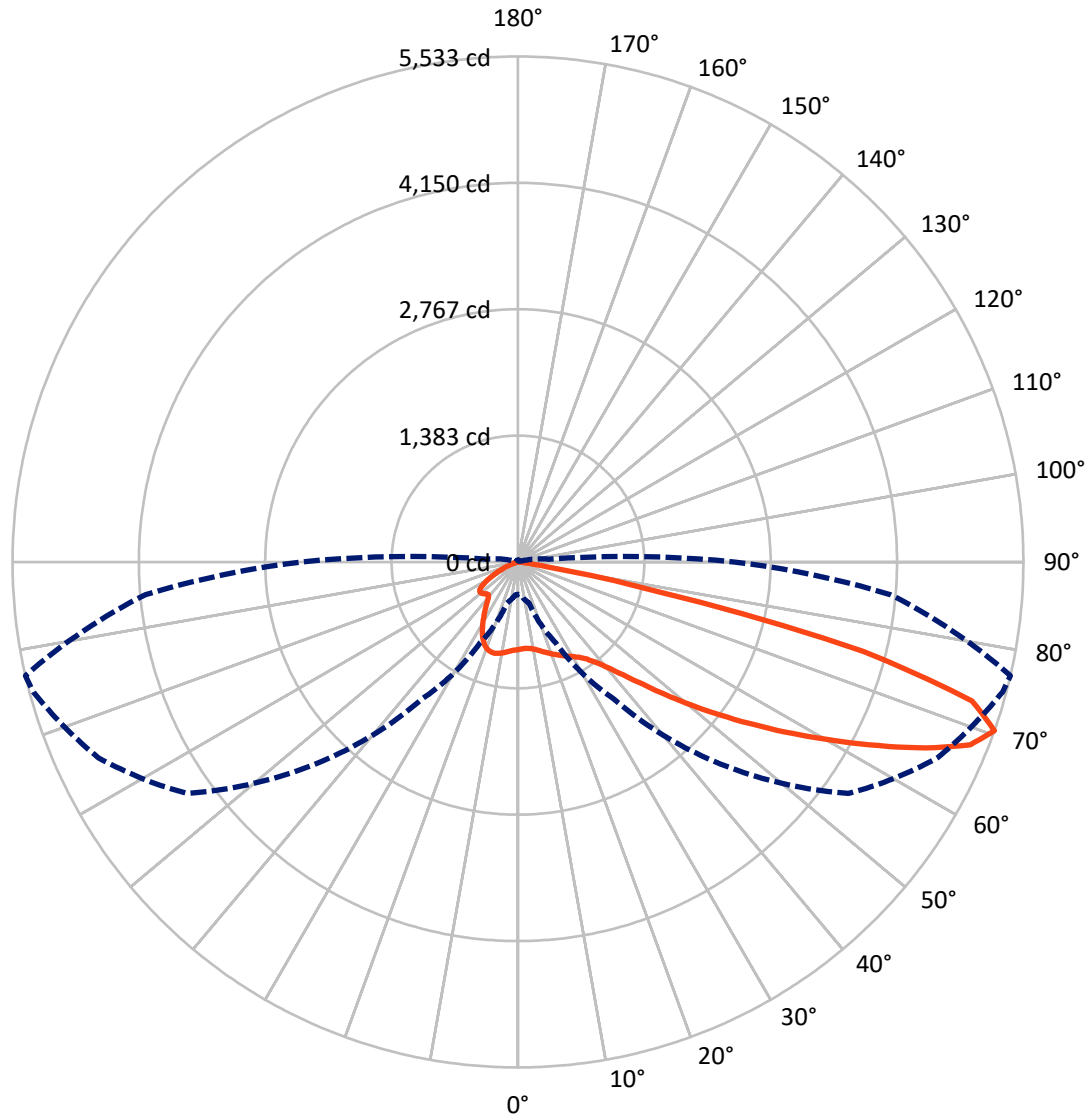
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SB1D-940-U-T3R-HSS

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	647.4	0.0	647.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5493.6	0.0	5493.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	6141.0	0.0	6141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.3
10°-20°	196.0	3.2
20°-30°	303.1	4.9
30°-40°	550.0	9.0
40°-50°	1038.2	16.9
50°-60°	1500.2	24.4
60°-70°	1596.9	26.0
70°-80°	846.2	13.8
80°-90°	27.8	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°	6141.0	100.0
0°-180°	6141.0	100.0

Coefficient of Utilization



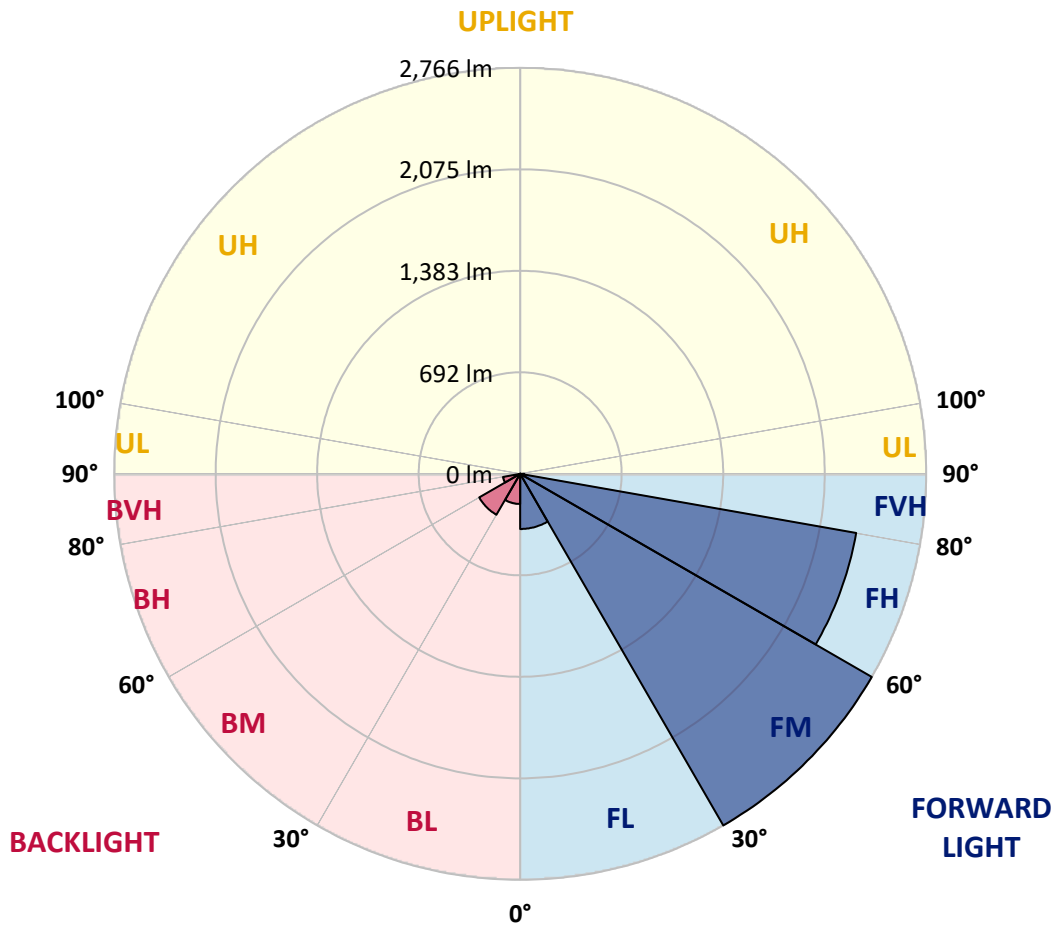
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.0	6.1			
FM (30°-60°)	2766.2	45.0			
FH (60°-80°)	2324.5	37.9			G2/5000
FVH (80°-90°)	27.0	0.4			G1/100
BL (0°-30°)	205.7	3.3	B1/500		
BM (30°-60°)	322.3	5.2	B1/1000		
BH (60°-80°)	118.7	1.9	B1/500		G1/500
BVH (80°-90°)	0.7	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



REPORT NUMBER: P946233

CATALOG NUMBER: GALN-SB1D-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9
2.5°	899.3	907.5	906.3	911.7	913.7	921.4	929.2	939.7	951.3	950.9
5°	848.5	856.7	858.6	866.0	875.3	887.3	903.2	924.1	945.9	949.4
7.5°	788.4	796.9	802.0	816.7	833.8	858.6	884.6	915.2	951.3	956.3
10°	728.3	736.1	742.7	763.6	790.7	827.6	869.9	914.1	962.5	969.9
12.5°	691.1	698.4	705.8	724.0	757.8	802.8	860.2	919.5	981.2	991.6
15°	677.9	684.5	690.3	706.6	738.0	789.2	858.2	930.7	1004.8	1018.8
17.5°	679.8	683.3	687.2	699.6	730.2	783.0	861.7	950.1	1032.7	1045.1
20°	691.1	693.0	693.4	701.9	729.1	782.2	868.7	968.7	1059.1	1075.8
22.5°	705.4	706.2	705.4	711.2	736.4	788.0	878.0	991.2	1088.6	1104.1
25°	772.5	757.8	739.2	727.9	748.9	799.3	892.0	1021.5	1120.8	1135.9
27.5°	980.8	938.5	871.8	796.9	774.5	815.6	911.3	1052.1	1153.3	1166.9
30°	1318.9	1263.5	1150.2	981.5	856.7	849.7	936.6	1082.8	1187.9	1202.6
32.5°	1657.9	1644.3	1513.6	1280.2	1041.7	925.7	978.4	1124.3	1233.6	1245.3
35°	2000.7	1973.2	1866.1	1635.4	1326.7	1080.4	1048.2	1178.5	1293.7	1306.9
37.5°	2263.2	2246.6	2180.3	1990.2	1664.9	1319.3	1167.7	1262.7	1381.0	1395.7
40°	2495.2	2487.4	2464.9	2339.6	2043.0	1631.9	1353.4	1393.0	1502.0	1519.4
42.5°	2677.4	2695.7	2708.4	2673.5	2432.7	1988.7	1603.2	1576.1	1670.7	1688.5
45°	2864.0	2870.2	2921.7	2972.2	2819.7	2361.7	1884.7	1790.5	1880.5	1902.6
47.5°	2983.8	3008.6	3099.4	3188.2	3145.1	2731.7	2187.2	2043.7	2123.6	2165.1
50°	2992.7	3039.6	3164.5	3319.2	3382.1	3083.8	2516.1	2332.3	2417.2	2463.0
52.5°	2844.2	2917.1	3110.6	3337.1	3510.0	3382.1	2856.2	2620.8	2729.8	2789.5
55°	2180.6	2276.0	2907.8	3240.1	3515.1	3608.2	3187.4	2921.4	3078.0	3145.5
57.5°	1899.9	1948.0	2286.1	3071.8	3421.6	3699.3	3486.8	3207.6	3456.9	3540.7
60°	1580.7	1643.9	1917.3	2796.5	3294.8	3708.2	3751.3	3576.8	3867.6	3961.8
62.5°	1074.2	1142.9	1414.7	2323.4	3121.5	3704.0	3968.0	3956.8	4324.1	4425.3
65°	665.5	708.5	887.7	1897.2	2879.1	3708.6	4194.9	4418.3	4805.7	4908.5
67.5°	525.9	545.6	639.1	1456.6	2461.4	3603.9	4421.4	4852.3	5259.1	5340.5
70°	353.3	365.3	465.0	976.5	1831.2	3120.7	4417.1	5070.2	5492.5	5533.2
72.5°	186.1	195.5	271.9	452.2	1106.0	2218.3	3723.3	4809.6	5260.2	5199.0
75°	93.1	108.6	183.0	229.6	472.3	1237.1	2312.1	3792.0	4140.2	3902.9
77.5°	70.6	85.3	151.2	151.2	164.4	416.5	979.2	2068.2	1907.6	1588.5
80°	45.0	58.2	132.2	114.4	68.6	105.9	255.2	579.4	405.3	308.3
82.5°	26.4	38.0	110.1	75.6	38.4	39.2	72.1	123.3	105.1	81.8
85°	10.5	24.8	75.6	29.9	15.1	9.7	21.7	26.4	21.7	16.3
87.5°	0.0	5.8	13.2	0.0	1.2	0.8	1.6	1.9	1.9	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946233
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
957.9	0°	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9
958.7	2.5°	962.2	962.9	965.3	965.6	960.2	953.2	950.5	949.4	944.7	944.3
964.9	5°	973.8	977.3	973.8	963.7	939.7	905.9	880.3	859.4	840.4	834.6
986.2	7.5°	997.1	1000.5	990.1	950.5	890.0	822.9	762.4	719.8	681.4	667.0
1012.2	10°	1030.4	1035.1	1002.1	922.2	815.2	707.4	605.0	532.8	476.6	453.7
1047.5	12.5°	1072.3	1074.2	1008.7	879.2	717.8	563.9	418.8	341.7	291.6	273.0
1090.1	15°	1118.4	1115.7	1009.5	820.6	585.2	398.7	273.4	224.5	204.4	198.2
1132.8	17.5°	1166.9	1155.7	994.0	736.1	439.8	272.6	202.8	191.2	187.7	186.1
1175.1	20°	1214.6	1189.4	965.6	625.5	315.7	203.6	184.2	180.7	178.8	178.0
1217.7	22.5°	1258.0	1215.0	917.2	497.2	229.2	179.9	174.1	171.0	167.5	166.0
1259.2	25°	1300.3	1229.7	848.9	377.3	183.4	168.3	163.7	157.8	153.2	151.2
1303.8	27.5°	1341.4	1239.0	763.6	279.2	163.7	157.4	148.9	140.8	137.3	136.5
1351.5	30°	1385.2	1242.1	666.6	208.3	151.6	143.9	131.5	122.2	120.2	120.6
1415.9	32.5°	1438.8	1246.8	568.9	170.6	141.5	127.6	112.9	103.2	101.6	103.2
1509.7	35°	1502.8	1256.1	474.7	157.1	132.6	110.9	95.0	86.9	85.3	86.5
1630.0	37.5°	1589.6	1271.2	386.6	154.3	125.3	97.0	79.9	73.3	73.3	73.7
1777.3	40°	1705.2	1311.6	307.9	152.4	121.4	86.5	67.5	64.8	65.9	66.7
1965.0	42.5°	1846.0	1397.3	254.8	150.1	117.1	81.8	61.3	60.1	62.0	62.8
2190.0	45°	2003.8	1505.9	236.2	146.2	113.2	84.9	58.6	57.0	59.3	59.7
2442.0	47.5°	2167.1	1612.1	233.8	141.9	109.4	89.6	57.8	54.3	57.0	57.4
2711.2	50°	2332.3	1681.5	236.2	135.3	103.2	89.6	58.2	51.6	53.9	55.1
2990.4	52.5°	2498.6	1713.3	234.6	121.0	92.3	84.2	58.2	49.3	51.6	52.4
3292.1	55°	2660.0	1707.1	211.0	99.7	78.3	74.5	56.6	47.3	48.9	49.3
3577.1	57.5°	2787.6	1620.6	167.1	77.6	63.6	62.0	51.6	45.0	46.1	45.8
3838.5	60°	2854.3	1430.6	119.4	59.7	50.0	48.9	45.4	41.9	42.7	40.7
4060.0	62.5°	2855.0	1179.3	79.9	47.3	39.9	38.8	38.8	37.6	36.8	33.0
4231.4	65°	2794.2	900.5	53.1	37.6	32.2	30.2	32.6	32.2	29.5	24.0
4283.7	67.5°	2656.1	590.2	40.3	29.5	24.8	23.7	26.0	27.1	25.2	20.2
4092.9	70°	2372.2	343.6	33.4	22.9	18.6	17.5	20.9	23.3	20.9	16.3
3498.4	72.5°	1970.5	185.4	27.1	17.1	12.8	11.6	16.7	19.0	16.7	12.0
2244.6	75°	1278.6	99.3	20.9	11.2	6.6	7.4	12.4	14.0	11.6	7.8
658.9	77.5°	429.3	43.8	13.2	5.4	3.1	3.1	7.4	8.5	5.4	2.7
119.8	80°	95.8	18.2	5.4	2.3	1.2	1.2	1.6	1.6	0.8	0.0
36.8	82.5°	31.4	7.4	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
9.3	85°	12.0	2.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	4.7	0.4	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>
957.9
945.1
831.1
661.2
444.0
267.2
198.2
185.8
177.2
165.6
150.5
135.7
120.6
102.8
86.1
73.3
66.7
62.8
60.1
57.8
55.5
52.4
49.3
45.8
40.3
31.8
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