

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: P946235

Luminaire Tested: **GALN-SB1D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946235
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-SB1D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5682 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

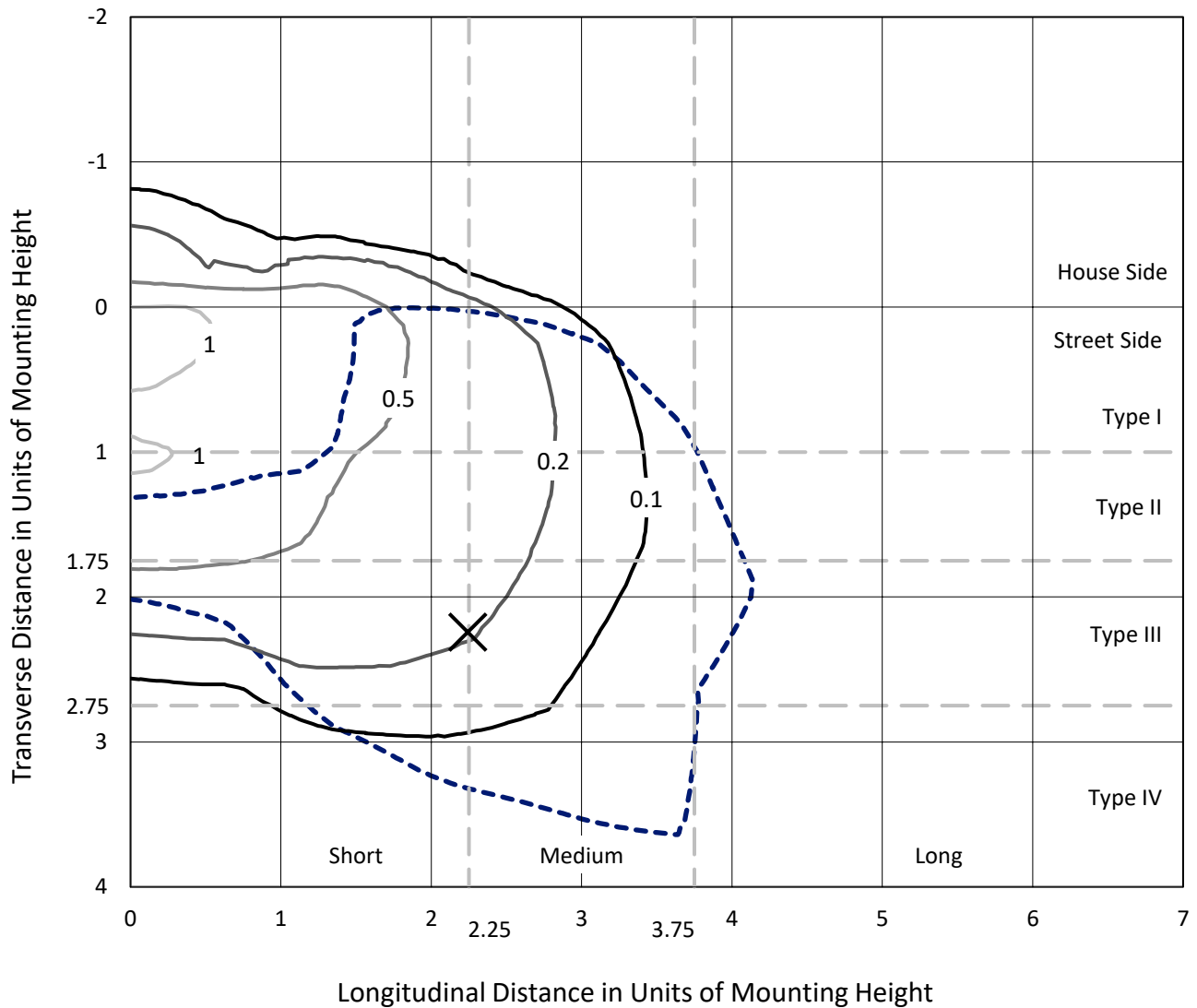
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

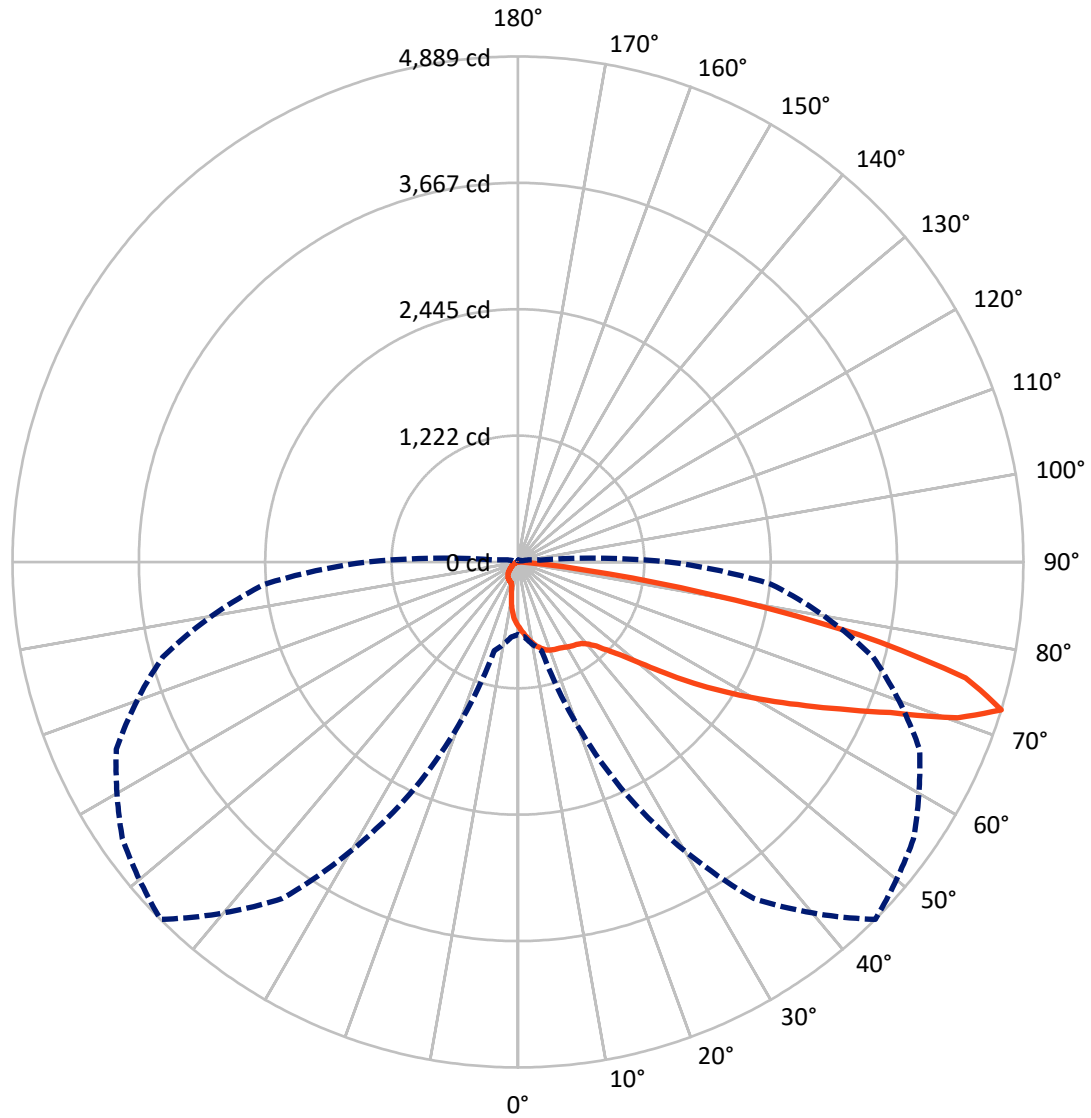
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	597.0	0.0	597.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5085.0	0.0	5085.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	5682.0	0.0	5682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.0
10°-20°	171.4	3.0
20°-30°	281.5	5.0
30°-40°	399.2	7.0
40°-50°	659.8	11.6
50°-60°	1185.3	20.9
60°-70°	1645.9	29.0
70°-80°	1193.9	21.0
80°-90°	86.3	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°	5682.0	100.0
0°-180°	5682.0	100.0

Coefficient of Utilization



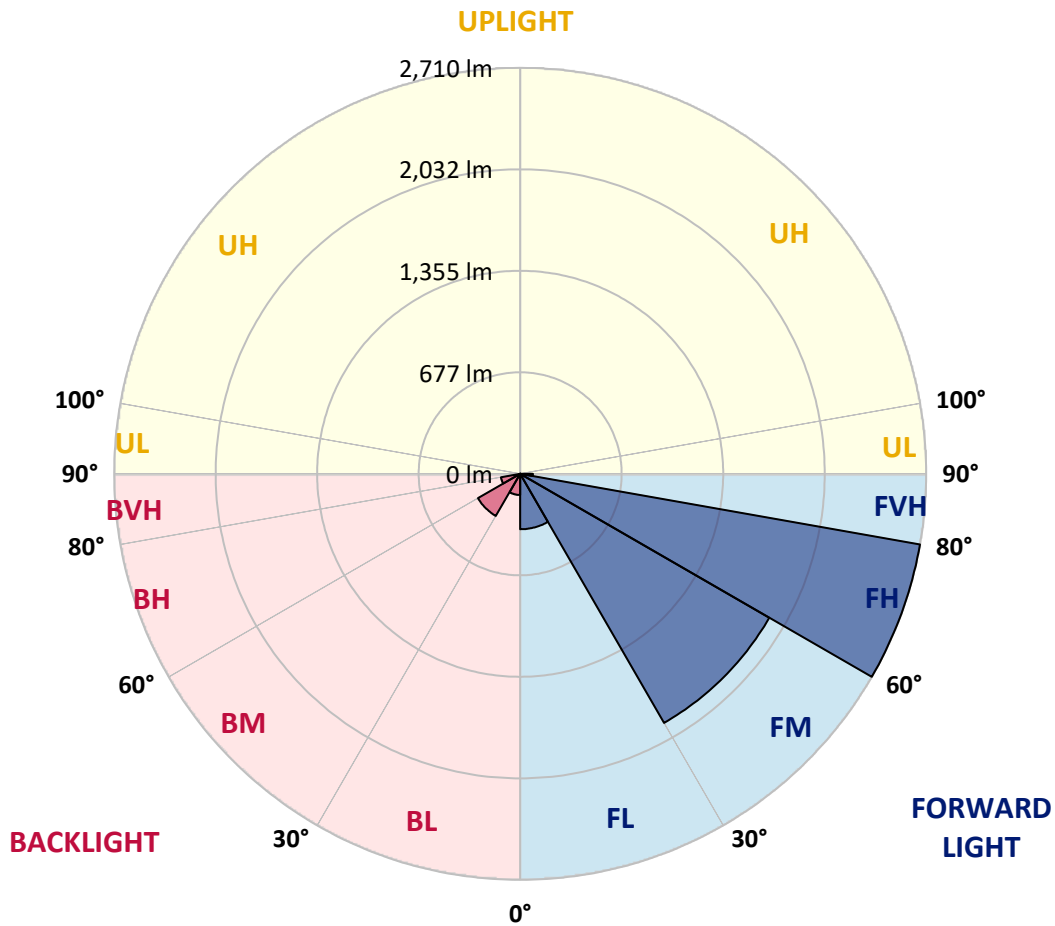
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.1	6.5			
FM (30°-60°)	1919.7	33.8			
FH (60°-80°)	2709.6	47.7			G2/5000
FVH (80°-90°)	85.6	1.5			G1/100
BL (0°-30°)	141.4	2.5	B1/500		
BM (30°-60°)	324.7	5.7	B1/1000		
BH (60°-80°)	130.2	2.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
2.5°	679.9	681.0	680.3	675.6	667.9	663.6	661.3	653.5	648.5	639.5
5°	742.3	747.0	744.3	734.9	720.2	709.7	706.6	690.7	676.4	659.7
7.5°	808.6	811.0	805.9	793.9	774.1	756.3	753.6	731.5	708.6	683.0
10°	866.0	868.8	861.0	843.5	821.0	798.9	795.1	770.6	743.5	712.1
12.5°	914.1	916.8	906.8	885.8	861.0	838.1	834.2	808.6	778.8	743.9
15°	950.6	955.6	942.1	919.6	892.8	869.9	868.0	842.8	813.7	774.9
17.5°	971.9	977.0	964.2	937.0	914.1	894.7	892.4	871.5	844.3	807.1
20°	975.4	980.1	966.5	942.8	923.8	908.3	907.1	892.0	872.2	836.6
22.5°	964.9	970.8	958.3	939.3	926.1	918.0	916.5	907.9	896.7	866.4
25°	954.1	958.7	949.4	932.7	925.8	925.0	926.1	924.6	922.3	896.7
27.5°	953.3	958.3	947.9	932.0	928.1	936.2	937.4	944.8	946.7	924.2
30°	959.9	963.4	953.3	936.6	934.7	953.3	953.7	966.9	970.0	947.5
32.5°	974.2	978.1	968.0	943.6	940.9	966.9	968.0	985.5	990.5	972.3
35°	1008.0	1012.6	1001.0	963.0	953.3	979.7	983.2	1003.7	1013.8	998.7
37.5°	1092.1	1078.6	1062.7	1002.2	981.6	999.8	1005.7	1029.7	1047.5	1030.1
40°	1301.2	1258.5	1208.9	1068.9	1031.3	1042.9	1047.5	1071.6	1096.0	1079.0
42.5°	1614.9	1564.5	1484.6	1222.5	1106.1	1111.9	1115.4	1136.4	1170.9	1157.3
45°	1894.6	1876.3	1794.9	1484.6	1246.1	1217.4	1221.7	1232.5	1283.3	1278.3
47.5°	2109.4	2099.0	2036.1	1785.6	1482.7	1346.6	1358.6	1363.6	1436.9	1454.8
50°	2274.7	2270.8	2214.5	2053.2	1791.8	1537.0	1541.3	1530.4	1640.2	1684.4
52.5°	2430.6	2443.7	2402.3	2301.8	2121.8	1786.4	1785.6	1734.4	1882.6	1949.3
55°	2571.3	2576.0	2580.3	2555.4	2453.8	2070.3	2062.9	1979.1	2163.7	2232.8
57.5°	2703.6	2705.5	2743.5	2794.4	2799.4	2375.1	2361.5	2261.1	2470.9	2520.2
60°	2792.4	2801.3	2881.6	3022.8	3084.5	2689.6	2682.3	2579.9	2783.5	2806.4
62.5°	2664.4	2718.7	2921.2	3201.2	3353.6	3038.3	3034.8	2938.6	3112.4	3093.8
65°	2156.8	2248.7	2604.7	3321.8	3617.7	3427.7	3432.7	3330.3	3450.2	3389.7
67.5°	1508.7	1605.6	2026.8	3331.5	3912.9	3884.9	3914.0	3753.5	3808.9	3673.2
70°	1043.3	1093.3	1367.5	3122.8	4142.9	4514.8	4514.0	4273.2	4165.7	3802.3
72.5°	701.6	727.6	888.1	2477.5	3973.8	4889.0	4866.6	4670.3	4286.0	3556.1
75°	295.9	314.9	411.1	1392.3	3143.8	4472.9	4412.0	4127.3	3808.2	2800.2
77.5°	93.9	102.0	162.1	498.4	1731.7	3362.1	3297.8	2577.6	2552.3	1404.7
80°	44.6	52.0	91.1	200.1	681.4	1828.6	1819.7	1169.3	1098.0	379.3
82.5°	19.4	22.9	50.4	107.0	304.8	652.3	665.5	397.9	329.3	143.9
85°	6.2	8.1	23.3	49.3	128.8	162.1	160.2	94.6	132.6	78.3
87.5°	0.0	0.0	7.8	11.2	13.2	9.3	10.5	8.1	36.8	21.7
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°
622.5	0°	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
630.2	2.5°	625.6	619.4	608.5	598.4	589.5	580.6	575.2	567.4	566.6	566.6
640.3	5°	629.8	619.8	600.4	579.8	556.2	533.7	511.2	489.4	482.5	477.4
656.6	7.5°	642.3	626.4	595.7	556.5	511.6	462.3	427.8	390.5	376.2	368.4
678.3	10°	660.1	638.4	591.8	523.2	450.3	383.2	333.9	293.6	278.1	271.5
702.0	12.5°	679.9	653.1	584.9	481.7	383.2	302.9	254.8	236.2	233.9	233.9
730.3	15°	703.5	671.0	572.8	432.8	313.0	239.7	222.6	223.4	225.7	227.3
757.8	17.5°	728.0	690.0	553.8	378.1	250.9	215.6	216.0	217.2	219.1	220.7
787.7	20°	754.3	709.0	528.6	320.0	215.2	208.7	209.8	211.0	212.5	213.3
815.6	22.5°	782.7	726.8	498.8	263.0	203.2	202.8	203.2	204.4	206.3	206.3
848.2	25°	812.9	746.6	464.6	221.5	197.0	197.0	197.8	198.6	200.1	200.1
879.6	27.5°	843.9	764.8	428.6	199.7	191.6	191.2	191.2	192.4	193.1	193.5
910.6	30°	878.1	786.1	392.5	195.1	187.3	185.4	184.2	185.0	185.8	186.2
943.2	32.5°	913.0	806.7	360.3	197.0	183.1	179.6	175.7	174.9	174.9	176.5
977.0	35°	951.7	829.2	335.5	203.6	180.7	171.0	164.8	161.3	161.7	164.1
1017.3	37.5°	998.3	856.3	317.2	209.4	179.2	161.3	151.3	147.0	144.3	147.0
1072.8	40°	1059.2	896.3	304.1	214.1	177.2	150.1	136.5	129.5	124.5	126.0
1158.9	42.5°	1148.8	959.1	299.0	214.5	173.0	136.9	121.4	112.1	104.7	105.1
1288.4	45°	1274.4	1058.4	325.0	209.4	163.7	122.6	105.5	93.1	88.4	87.3
1481.9	47.5°	1446.6	1203.1	385.1	199.0	150.1	108.6	90.0	79.5	76.0	74.1
1735.9	50°	1677.4	1388.8	451.8	187.3	136.5	95.4	77.2	70.6	68.3	66.3
2037.3	52.5°	1945.0	1577.3	506.5	175.7	122.9	83.8	69.0	65.2	63.2	61.7
2328.2	55°	2190.5	1707.2	503.4	163.3	109.8	74.5	63.2	60.9	58.6	57.0
2578.7	57.5°	2343.3	1725.5	415.0	149.7	94.6	67.1	57.8	56.2	53.5	51.6
2795.5	60°	2413.5	1621.5	290.9	131.9	79.5	60.1	52.0	51.2	47.7	45.0
3000.7	62.5°	2426.3	1428.4	193.9	109.8	66.3	53.5	46.2	45.0	40.3	35.7
3167.4	65°	2374.3	1152.3	134.2	85.7	56.6	46.5	39.6	37.2	32.2	27.5
3207.0	67.5°	2209.9	809.0	93.5	61.7	48.1	36.8	31.4	30.6	26.8	22.9
3005.3	70°	1908.5	461.1	62.4	46.2	38.0	25.2	24.8	25.6	21.7	18.6
2455.4	72.5°	1463.3	211.0	38.8	33.7	26.0	17.1	19.8	20.2	16.7	14.0
1531.9	75°	861.4	90.4	24.4	21.7	13.2	11.2	14.3	14.7	11.2	8.9
560.0	77.5°	293.2	34.1	15.5	12.8	6.6	6.2	9.3	9.3	6.2	3.5
112.5	80°	66.7	12.8	7.8	5.0	3.1	2.7	3.1	2.7	1.6	0.4
34.5	82.5°	19.0	5.0	3.1	1.9	1.2	1.2	0.4	0.0	0.0	0.0
12.0	85°	5.4	2.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	2.3	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>
622.5
568.6
479.8
369.6
271.5
233.9
227.3
220.7
213.7
207.1
200.5
193.9
186.9
177.6
165.2
146.2
125.3
103.6
85.7
72.9
65.9
61.3
56.2
51.2
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