

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: P939341

Luminaire Tested: **GALN-SB1D-927-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325 lumens
Efficiency: N/A
Efficacy: 54.3 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

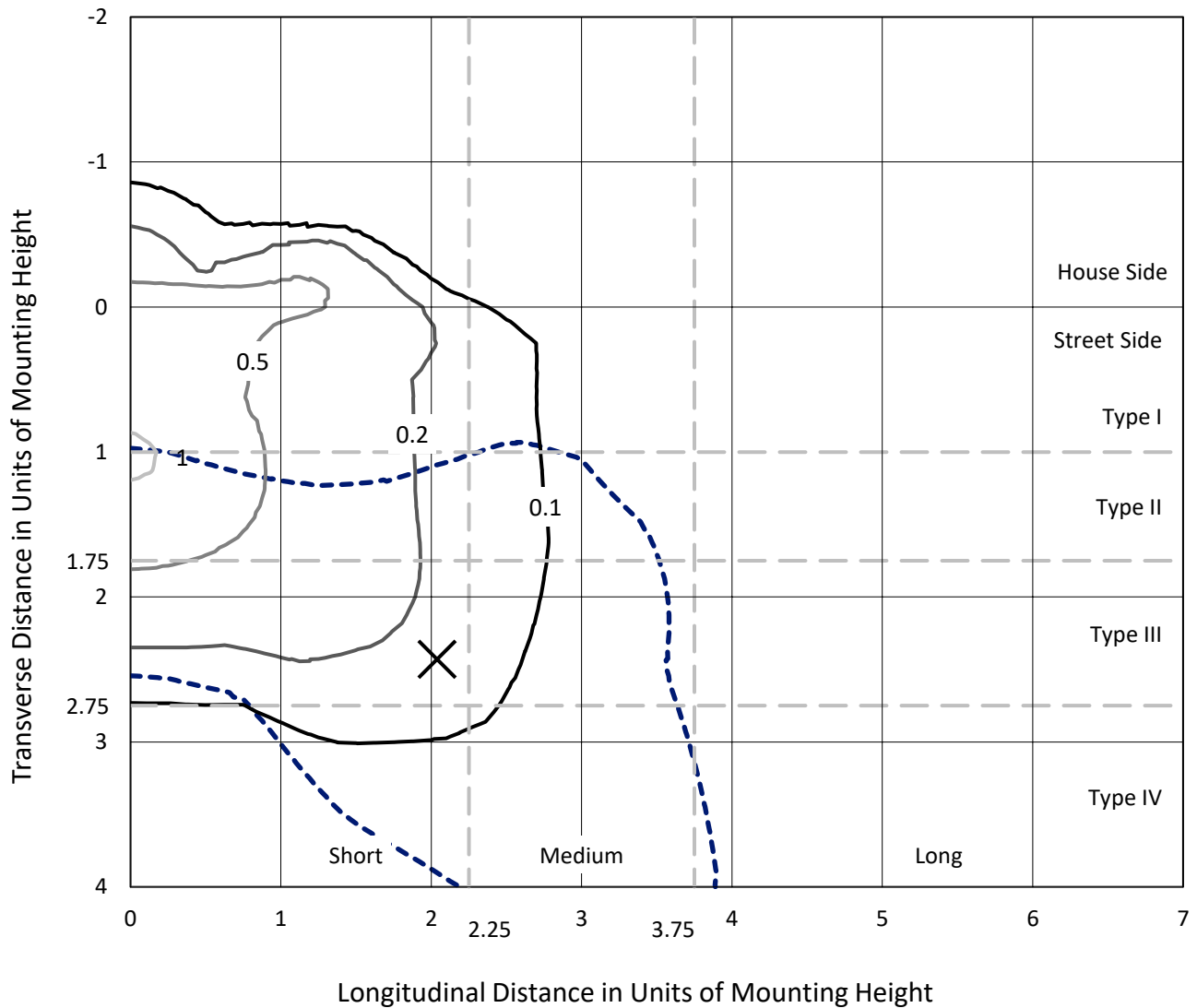
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

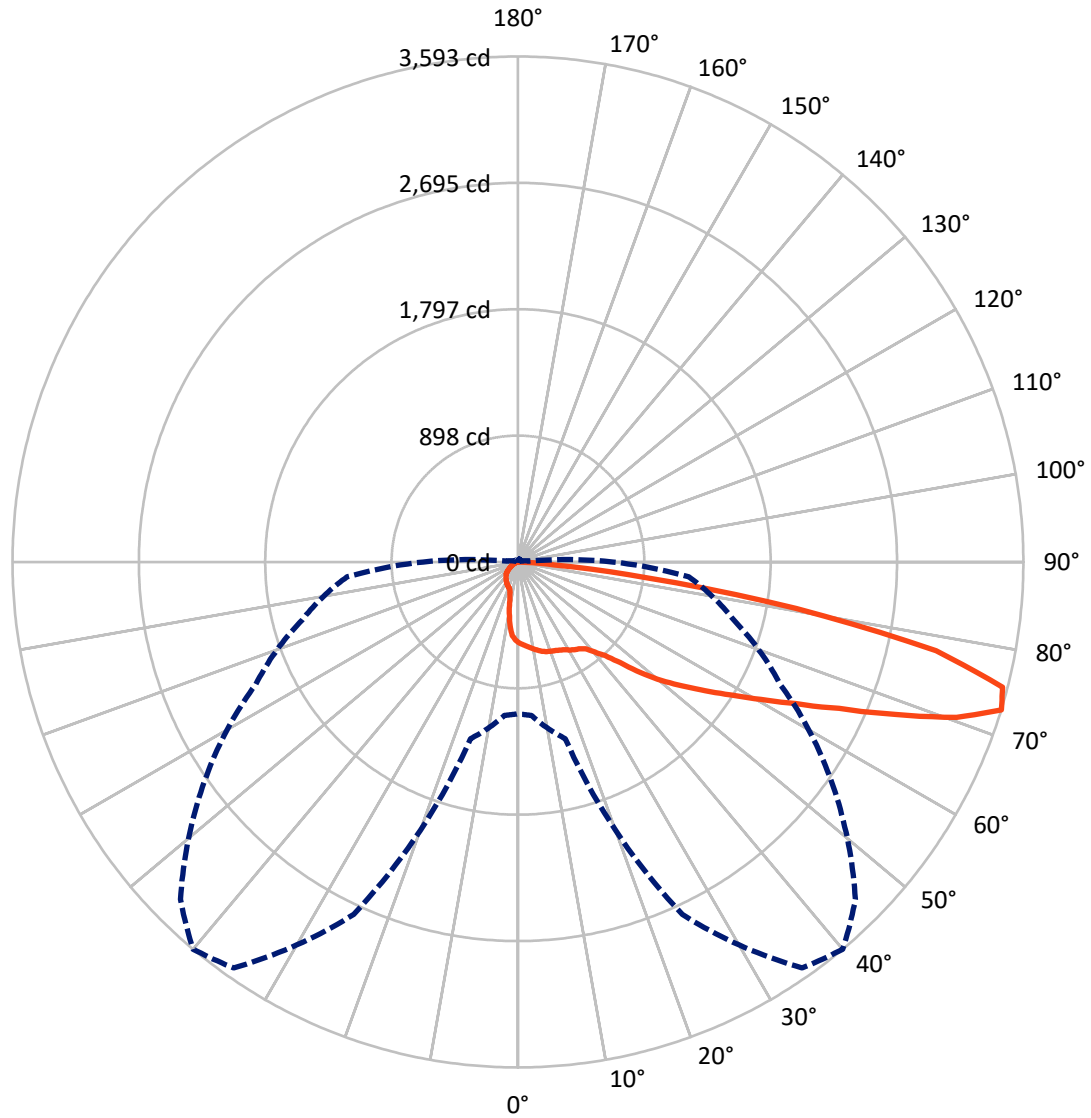
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.5	0.0	558.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3766.5	0.0	3766.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	4325.0	0.0	4325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.2
10°-20°	142.0	3.3
20°-30°	229.8	5.3
30°-40°	339.3	7.8
40°-50°	571.0	13.2
50°-60°	886.6	20.5
60°-70°	1109.5	25.7
70°-80°	908.3	21.0
80°-90°	86.1	2.0
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°	4325.0	100.0
0°-180°	4325.0	100.0

Coefficient of Utilization



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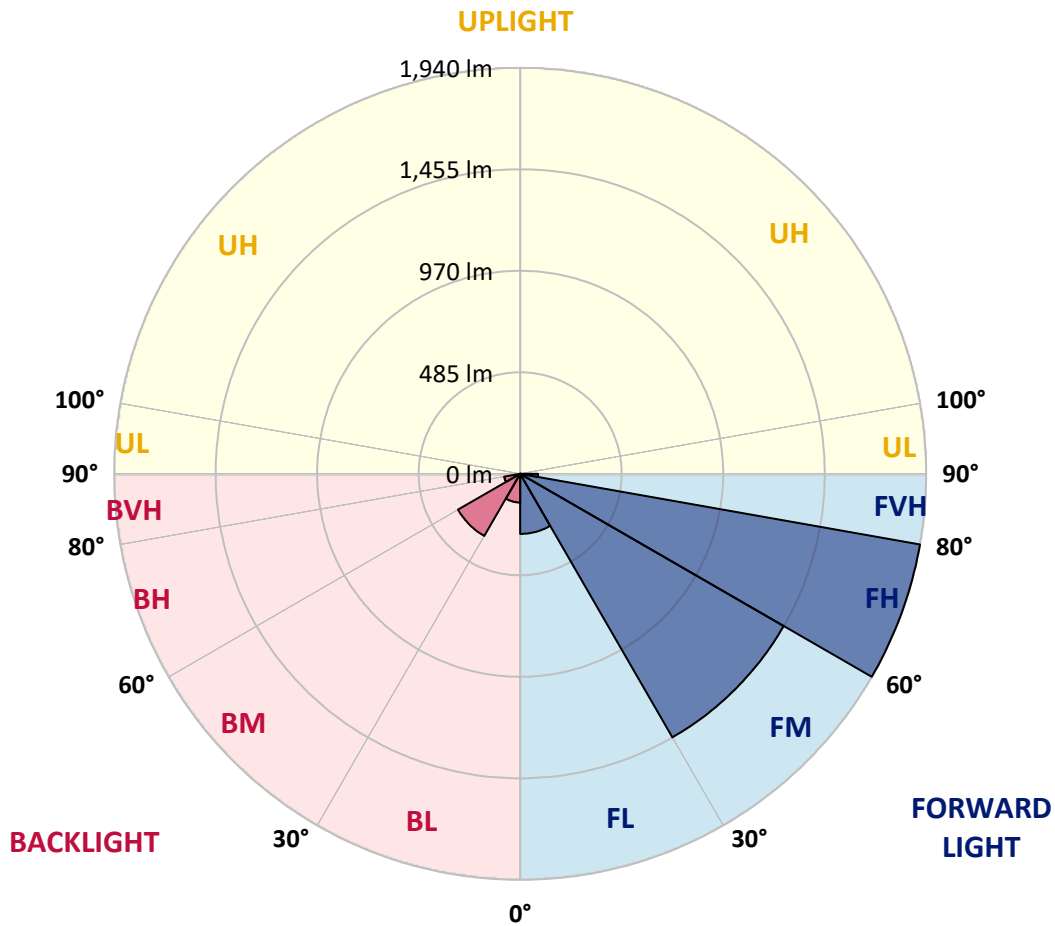
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.1	6.6			
FM (30°-60°)	1454.0	33.6			
FH (60°-80°)	1940.0	44.9			G2/5000
FVH (80°-90°)	85.5	2.0			G1/100
BL (0°-30°)	137.1	3.2	B1/500		
BM (30°-60°)	343.0	7.9	B1/1000		
BH (60°-80°)	77.8	1.8	B0/110		G0/110
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°	40°	45°	55°	65°	75°
0°	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7
2.5°	589.9	592.2	590.9	588.3	587.6	586.3	584.7	584.1	581.8	579.8
5°	606.5	608.8	607.2	603.6	602.0	600.4	598.1	596.1	591.6	587.3
7.5°	624.8	626.7	624.8	619.6	617.0	615.0	611.8	608.8	603.6	597.4
10°	645.0	646.6	643.7	636.8	632.6	629.7	626.7	623.5	618.6	611.8
12.5°	663.9	665.8	661.3	653.1	648.2	645.3	642.0	639.4	634.6	628.0
15°	681.1	684.1	676.3	667.5	661.9	659.6	656.4	654.8	651.5	646.9
17.5°	694.2	696.1	688.0	677.6	671.4	669.7	667.5	668.4	667.8	665.5
20°	705.2	706.5	695.8	683.1	676.3	676.6	675.9	679.2	680.5	680.5
22.5°	718.9	719.3	705.6	689.6	681.5	683.7	684.7	688.3	690.9	693.5
25°	736.8	736.2	719.9	698.1	690.9	694.2	696.4	697.8	700.7	704.9
27.5°	763.6	761.6	740.8	711.8	703.3	706.2	710.5	709.8	708.5	711.8
30°	797.4	794.8	767.1	731.0	723.2	725.8	727.1	721.2	711.8	714.7
32.5°	851.2	846.6	808.2	752.5	740.4	743.4	741.7	729.7	715.7	718.6
35°	944.7	933.6	879.2	797.4	760.0	756.7	752.8	741.1	723.8	720.9
37.5°	1143.4	1123.8	1031.0	885.1	804.3	783.1	771.0	759.3	732.6	720.9
40°	1367.5	1347.6	1240.4	1031.6	877.9	842.1	813.4	780.8	741.7	725.1
42.5°	1601.4	1579.6	1469.4	1213.4	983.1	909.5	856.1	798.1	756.7	738.1
45°	1862.6	1835.3	1691.3	1403.0	1135.9	1021.5	924.8	833.6	782.8	761.3
47.5°	2138.2	2102.7	1912.5	1587.0	1300.4	1176.6	1050.5	897.1	821.2	795.8
50°	2382.5	2347.3	2140.8	1779.6	1454.1	1324.2	1193.9	985.1	878.9	844.7
52.5°	2558.1	2531.4	2348.6	1978.3	1614.1	1462.6	1323.8	1087.3	951.8	907.2
55°	2675.7	2651.3	2495.9	2166.6	1800.1	1615.1	1451.9	1198.4	1039.8	982.1
57.5°	2747.0	2733.0	2602.4	2334.6	1984.5	1781.8	1598.4	1320.6	1143.4	1070.4
60°	2772.4	2761.0	2668.5	2494.9	2207.3	1982.2	1770.8	1458.4	1269.1	1170.7
62.5°	2704.7	2707.0	2716.1	2684.8	2442.1	2216.7	1977.3	1623.9	1408.5	1284.4
65°	2385.8	2404.7	2578.0	2895.2	2753.2	2510.5	2240.2	1825.8	1568.2	1413.7
67.5°	1975.3	2002.7	2218.3	3018.4	3084.8	2892.0	2606.3	2083.2	1758.4	1545.3
70°	1512.1	1541.4	1802.7	2992.6	3395.3	3308.9	3059.1	2410.5	1955.5	1636.6
72.5°	1079.2	1094.2	1300.1	2763.6	3522.6	3593.0	3392.7	2720.6	2056.1	1586.1
75°	758.3	755.7	892.2	2225.5	3324.3	3558.5	3275.7	2552.9	1860.7	1260.0
77.5°	330.3	331.0	445.6	1351.5	2653.2	3039.2	2722.9	1599.1	1297.1	667.8
80°	85.7	88.3	163.5	538.1	1597.5	2006.0	1660.7	703.0	599.4	162.9
82.5°	30.3	32.2	75.2	169.1	589.3	919.9	739.4	224.8	156.4	46.6
85°	8.8	10.4	40.4	51.8	121.8	259.9	179.5	43.7	38.4	24.1
87.5°	0.0	1.3	8.1	7.2	7.2	4.9	9.1	4.9	6.2	2.9
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°
572.7	0°	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7
577.6	2.5°	575.6	573.3	568.4	563.2	558.3	553.8	552.5	547.6	545.3	545.6
582.1	5°	578.5	574.3	564.8	553.4	541.7	528.4	517.3	501.7	488.3	486.7
590.9	7.5°	586.3	579.5	564.2	542.0	512.7	475.9	441.7	407.8	388.6	378.2
603.9	10°	598.4	589.3	565.8	523.5	461.3	395.5	343.7	301.0	279.2	269.1
619.9	12.5°	612.7	602.6	568.4	491.9	394.8	308.5	252.5	226.4	221.8	221.2
639.4	15°	632.9	621.9	571.4	449.2	322.8	234.9	209.1	209.5	213.0	215.0
660.6	17.5°	655.4	644.3	567.1	397.1	251.8	200.7	200.0	202.9	208.2	210.1
680.2	20°	678.2	667.8	552.1	335.8	203.6	191.2	193.8	197.1	202.3	204.9
699.4	22.5°	701.7	692.5	528.4	270.7	183.7	184.4	187.6	190.9	196.8	199.7
718.3	25°	726.7	718.9	496.8	216.9	175.3	177.2	181.4	185.4	191.5	195.1
734.2	27.5°	752.2	746.3	460.9	181.1	167.4	169.7	174.6	179.8	186.0	190.2
748.2	30°	779.8	776.6	432.3	167.8	159.9	161.9	167.4	173.3	180.1	185.4
762.3	32.5°	808.2	807.5	418.3	177.5	153.1	154.4	159.3	165.2	173.6	180.1
774.0	35°	836.2	837.5	410.1	205.2	150.8	147.2	150.5	155.7	165.8	173.9
787.3	37.5°	872.0	875.3	409.8	235.2	156.4	140.1	142.4	145.9	154.7	164.2
808.2	40°	925.5	942.7	430.6	260.9	166.1	133.6	134.2	134.9	139.4	147.2
835.9	42.5°	996.5	1047.0	505.9	278.5	170.0	127.7	125.4	121.8	121.2	125.4
873.7	45°	1084.7	1173.0	638.1	288.3	166.1	121.2	115.0	105.5	102.0	104.9
924.8	47.5°	1188.7	1311.1	794.8	290.6	159.6	113.0	102.0	89.6	86.6	87.6
993.5	50°	1290.0	1414.7	932.6	271.7	148.9	102.6	87.6	77.2	75.2	75.6
1074.6	52.5°	1379.5	1450.2	971.7	227.0	134.5	89.9	75.2	68.1	66.8	66.8
1164.2	55°	1438.8	1411.8	866.5	173.6	116.6	76.9	64.5	60.9	60.3	59.9
1264.2	57.5°	1451.2	1286.7	654.4	125.4	91.2	64.8	57.3	55.4	54.1	52.8
1366.8	60°	1406.9	1078.2	416.6	87.6	68.4	55.4	50.8	49.5	46.9	44.3
1463.3	62.5°	1311.1	814.4	230.6	60.9	55.1	47.2	45.0	43.3	38.4	34.2
1539.8	65°	1182.5	541.4	102.0	47.6	45.0	39.7	38.4	36.2	30.3	25.4
1568.8	67.5°	1053.1	311.7	45.9	38.1	36.2	32.6	31.6	30.0	25.7	21.2
1494.9	70°	905.6	158.0	31.6	30.3	28.0	24.8	25.7	25.4	21.2	17.3
1219.3	72.5°	674.3	78.5	23.8	22.8	20.2	17.6	21.2	20.8	16.6	13.0
751.8	75°	381.8	38.8	17.3	16.0	12.1	13.0	16.9	16.0	11.4	8.5
317.3	77.5°	151.5	19.9	11.4	9.8	7.2	8.8	12.4	10.7	5.9	3.6
60.6	80°	34.9	9.8	5.9	4.2	3.3	5.2	6.5	3.9	1.6	0.3
16.3	82.5°	9.8	4.2	2.0	1.6	1.6	2.0	1.6	0.7	0.0	0.0
4.2	85°	3.3	2.0	0.7	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.3	87.5°	1.3	0.7	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>
572.7
545.3
485.7
377.5
267.1
220.9
214.7
209.8
204.9
199.7
195.1
190.6
186.0
180.8
175.3
165.8
149.8
127.7
104.9
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