

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: P945076

Luminaire Tested: **GALN-SB1A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945076
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-SB1A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

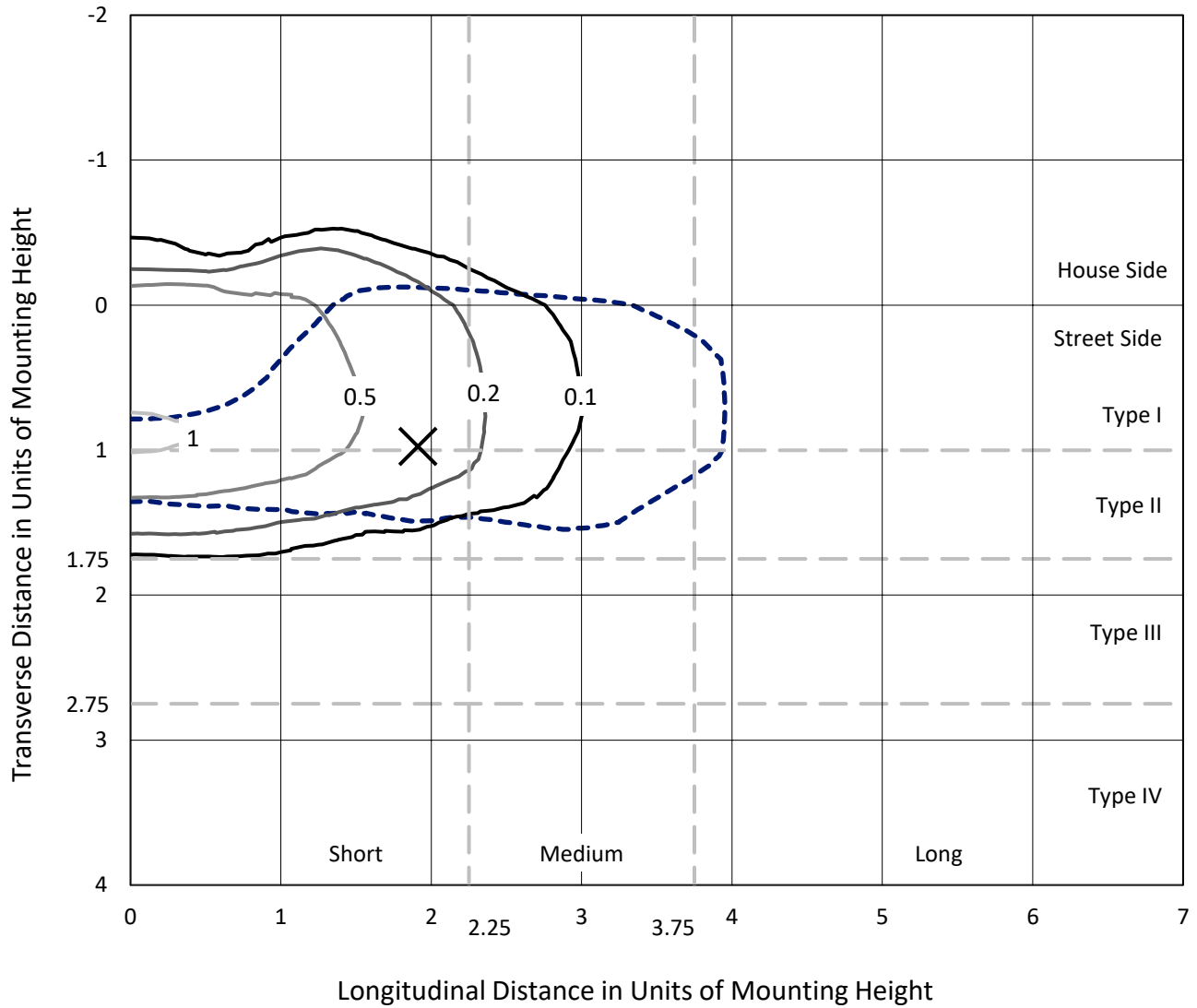
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

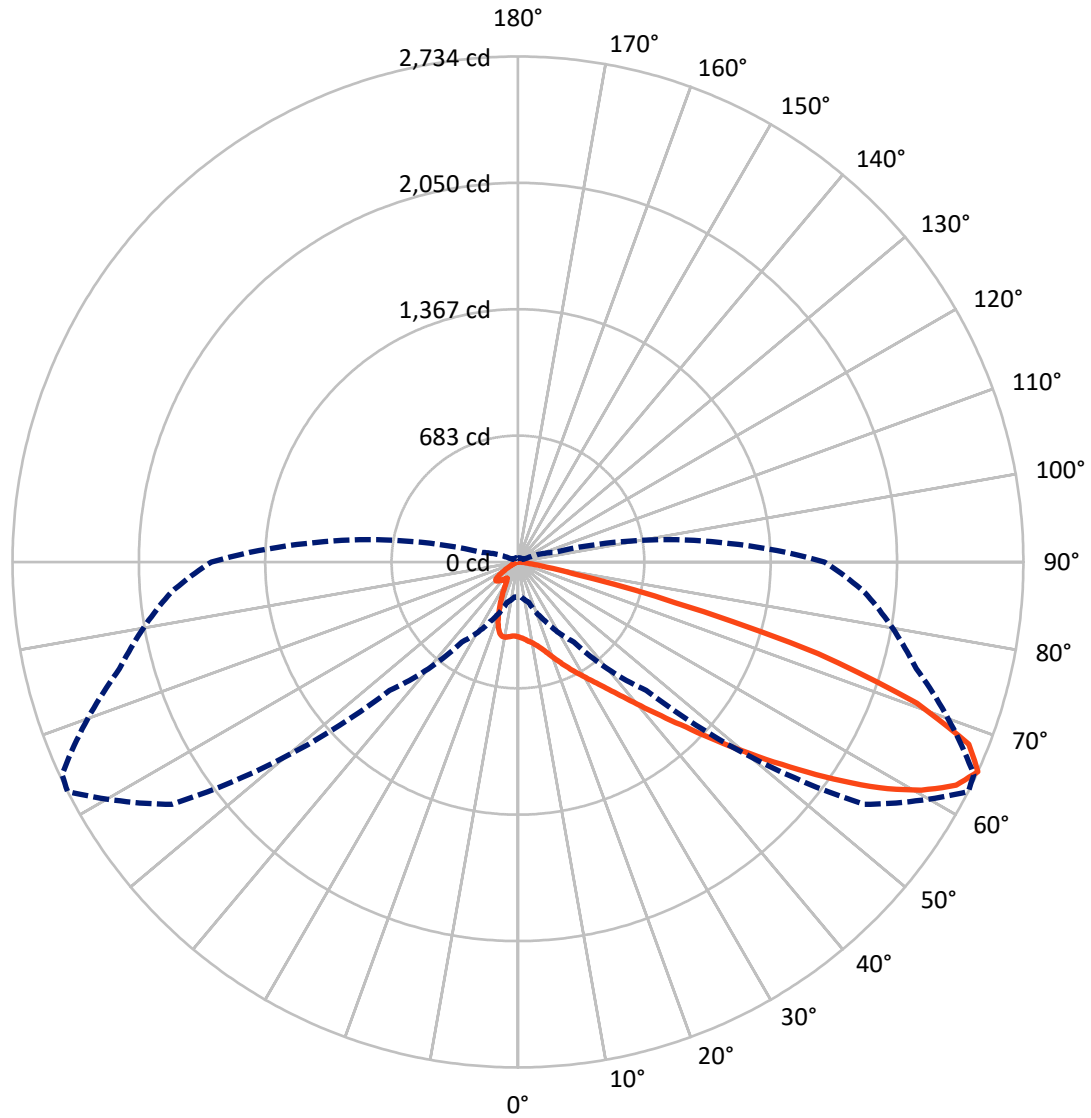
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	482.1	0.0	482.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2797.9	0.0	2797.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	3280.0	0.0	3280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.2
10°-20°	105.8	3.2
20°-30°	184.3	5.6
30°-40°	332.1	10.1
40°-50°	658.7	20.1
50°-60°	897.3	27.4
60°-70°	716.2	21.8
70°-80°	324.1	9.9
80°-90°	23.3	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°	3280.0	100.0
0°-180°	3280.0	100.0

Coefficient of Utilization



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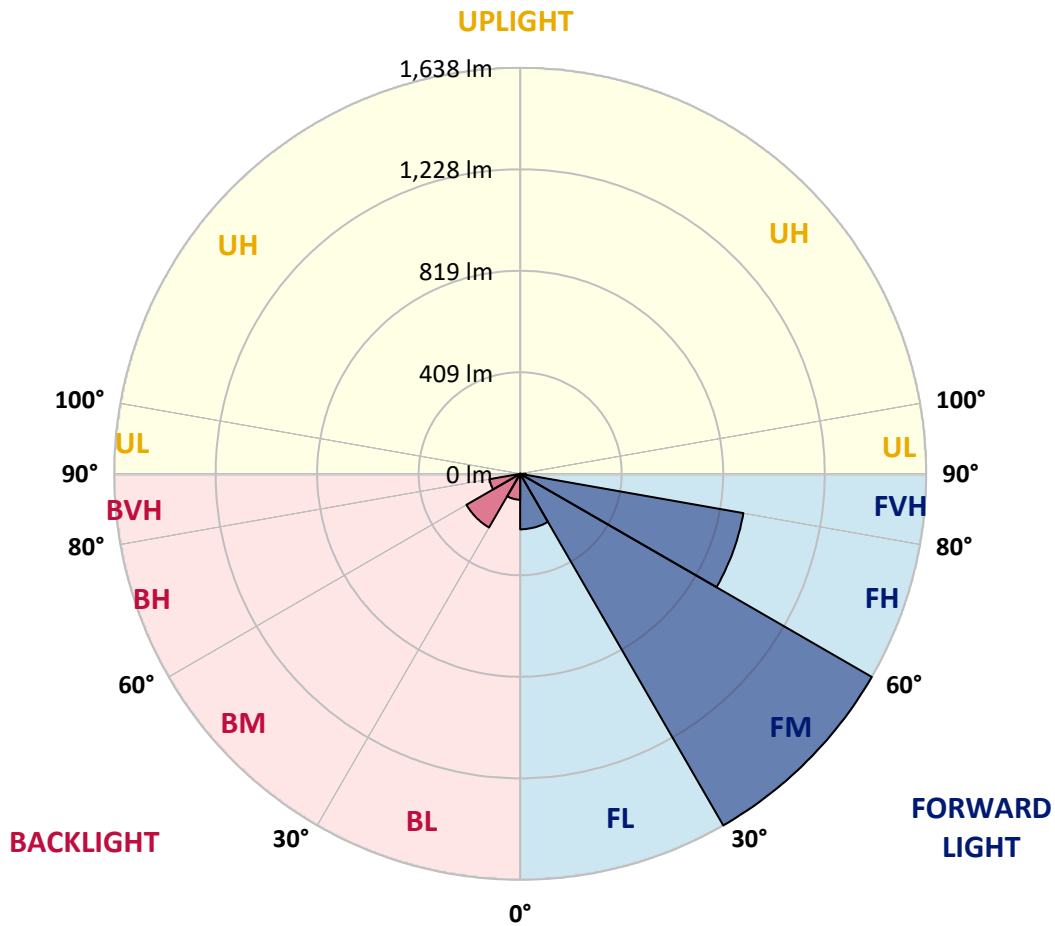
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.9	6.8			
FM (30°-60°)	1637.9	49.9			
FH (60°-80°)	914.4	27.9			G1/1800
FVH (80°-90°)	21.6	0.7			G1/100
BL (0°-30°)	104.3	3.2	B0/110		
BM (30°-60°)	250.2	7.6	B1/1000		
BH (60°-80°)	125.9	3.8	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
2.5°	414.3	413.2	414.7	414.1	413.6	412.7	412.3	411.8	410.9	410.2
5°	415.4	414.7	416.3	417.7	419.0	420.4	421.1	422.0	421.1	419.3
7.5°	405.9	405.5	408.9	412.9	419.0	424.2	429.9	433.0	433.2	432.6
10°	405.3	404.1	407.5	412.5	420.4	429.6	439.6	446.3	447.2	450.2
12.5°	415.9	414.7	419.5	424.9	433.0	442.7	454.9	464.4	465.7	469.8
15°	433.7	432.1	437.5	444.5	454.9	466.0	478.8	487.4	488.5	493.5
17.5°	454.5	452.9	459.2	466.6	477.9	493.0	507.9	517.4	518.8	521.9
20°	481.1	479.1	484.0	490.8	502.7	520.8	538.6	552.2	551.9	551.9
22.5°	512.0	508.8	513.1	518.5	529.8	551.7	575.4	591.4	591.4	585.1
25°	545.2	542.0	546.7	551.7	561.6	586.5	614.2	634.1	635.0	624.1
27.5°	586.7	582.6	586.2	592.1	598.0	623.2	656.2	679.2	679.7	663.0
30°	666.6	655.1	643.8	637.5	640.2	665.2	700.4	725.9	728.2	705.2
32.5°	812.8	810.5	770.8	718.9	691.8	710.3	749.8	780.5	781.9	752.3
35°	1040.0	1037.3	973.4	874.6	786.4	770.8	809.9	846.2	845.3	811.9
37.5°	1311.2	1308.8	1224.6	1092.4	949.5	862.2	887.3	925.4	931.0	887.3
40°	1543.0	1533.7	1480.5	1353.0	1166.2	1013.8	997.4	1022.6	1028.5	976.6
42.5°	1718.5	1710.6	1683.6	1603.9	1428.4	1238.1	1127.1	1136.8	1143.4	1081.1
45°	1809.5	1807.7	1818.5	1811.1	1695.5	1513.4	1312.6	1272.2	1274.7	1196.8
47.5°	1822.3	1821.4	1870.9	1940.8	1925.2	1823.9	1550.7	1441.0	1432.2	1327.5
50°	1746.5	1744.7	1839.5	1970.6	2078.7	2084.8	1821.0	1631.2	1611.8	1462.7
52.5°	1504.4	1503.9	1659.6	1877.8	2132.6	2313.1	2088.2	1840.2	1807.7	1605.7
55°	1157.6	1165.9	1344.4	1602.3	2034.2	2423.0	2328.0	2072.1	2022.3	1749.7
57.5°	820.0	832.2	1008.7	1238.4	1729.1	2358.0	2490.3	2304.6	2250.8	1893.2
60°	440.5	451.3	628.0	902.1	1286.4	2115.7	2575.8	2506.3	2455.5	2029.5
62.5°	262.4	266.0	339.2	582.4	870.1	1616.3	2539.5	2659.9	2618.2	2143.9
65°	188.4	189.1	225.9	355.6	528.2	982.0	2284.7	2733.5	2720.6	2230.1
67.5°	158.6	158.2	173.5	236.3	359.9	491.9	1751.0	2629.5	2684.1	2284.7
70°	136.1	136.7	154.8	173.1	270.6	278.5	870.6	2289.4	2405.9	2299.1
72.5°	101.3	103.6	120.3	157.7	204.2	191.6	300.6	1697.6	1908.1	2166.2
75°	71.5	72.7	84.6	132.7	152.3	139.5	153.4	877.5	1147.4	1660.8
77.5°	55.1	57.1	64.1	92.7	150.1	97.9	93.9	303.7	466.6	1003.2
80°	29.8	33.4	46.3	67.0	105.4	69.3	46.5	120.9	158.2	469.1
82.5°	15.3	17.1	32.3	48.3	60.0	60.5	23.0	50.3	65.2	144.9
85°	6.1	7.4	21.7	26.6	30.9	29.8	10.4	20.3	23.5	40.2
87.5°	1.4	2.3	7.9	6.1	5.9	6.3	2.5	4.7	4.5	4.7
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°
404.8	0°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
407.5	2.5°	407.3	406.4	403.9	401.2	398.0	396.2	395.1	394.9	393.3	392.2
416.5	5°	414.1	413.2	408.4	402.8	396.7	392.0	387.4	383.4	377.5	376.4
429.6	7.5°	427.6	425.1	417.5	409.8	398.3	384.5	367.8	348.6	331.5	326.3
447.0	10°	444.3	440.9	431.2	417.7	392.2	354.7	314.3	276.9	247.1	238.7
467.5	12.5°	463.3	460.3	447.5	422.4	366.7	298.8	236.9	190.4	161.6	154.3
489.4	15°	485.8	481.5	463.7	415.2	321.1	227.0	162.7	135.2	124.8	123.4
514.5	17.5°	509.7	502.7	478.1	389.2	259.7	161.3	125.7	117.8	113.3	111.9
539.8	20°	531.6	522.6	486.7	350.0	194.1	125.7	112.6	107.4	103.3	101.8
565.0	22.5°	553.5	540.7	486.7	296.5	145.5	111.5	103.3	98.6	93.9	91.8
592.1	25°	576.3	559.2	478.1	236.9	117.1	102.2	94.5	89.4	85.3	82.8
617.8	27.5°	598.4	574.7	458.5	180.5	104.2	94.1	86.4	81.5	77.6	75.8
645.8	30°	619.4	590.1	431.0	137.0	95.9	86.2	79.0	74.7	70.9	69.0
682.1	32.5°	647.8	609.5	401.7	112.4	88.7	78.8	72.2	68.1	64.8	63.4
729.3	35°	687.3	638.1	376.4	110.3	82.6	72.7	66.1	62.3	58.9	57.8
790.2	37.5°	743.3	684.4	363.1	123.9	77.6	67.2	61.2	57.1	53.9	53.0
867.6	40°	812.3	747.1	370.3	137.4	74.2	62.5	56.6	52.6	49.9	48.7
956.5	42.5°	894.2	824.5	410.2	147.8	72.0	58.4	52.4	47.8	46.0	45.6
1057.4	45°	988.3	909.6	471.4	158.9	68.4	54.6	48.1	44.7	43.3	43.1
1167.1	47.5°	1095.3	1003.0	542.2	172.6	64.8	51.0	44.7	42.4	41.3	40.8
1281.5	50°	1201.4	1097.1	615.1	180.3	61.8	47.6	42.0	40.2	39.3	39.0
1402.4	52.5°	1312.4	1193.9	674.0	173.1	59.3	44.9	39.7	38.4	37.5	37.2
1513.9	55°	1418.2	1272.2	684.2	146.9	54.4	42.2	37.2	36.6	35.4	35.4
1626.9	57.5°	1509.4	1311.5	612.4	107.9	49.4	38.1	34.7	34.1	33.2	32.9
1728.9	60°	1593.1	1300.2	472.7	72.7	44.0	34.1	31.6	31.1	30.2	29.1
1817.6	62.5°	1640.2	1250.5	323.4	47.4	38.6	29.8	28.0	27.8	25.7	23.5
1883.3	65°	1658.1	1148.6	201.7	34.5	32.3	25.5	24.1	23.7	20.8	18.3
1920.5	67.5°	1642.5	980.7	101.8	27.3	25.5	21.2	19.9	19.9	17.8	15.6
1918.2	70°	1580.2	735.2	42.9	21.9	19.6	16.2	16.2	17.1	15.1	12.6
1818.7	72.5°	1445.1	494.6	22.8	16.7	14.7	11.5	13.3	14.0	12.0	9.5
1488.6	75°	1148.8	301.7	15.8	12.4	9.3	8.1	10.2	10.6	8.1	6.3
1020.6	77.5°	785.7	173.3	10.6	7.9	5.9	4.7	7.0	6.5	4.3	2.9
393.5	80°	345.0	72.2	6.1	3.6	2.3	1.8	2.5	1.8	1.4	0.9
53.9	82.5°	40.4	16.9	2.3	1.4	0.9	0.5	0.2	0.0	0.0	0.0
16.5	85°	8.3	2.0	1.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	1.6	0.5	0.2	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>
404.8
393.3
375.9
323.8
235.6
152.3
122.1
111.2
100.9
90.7
81.9
75.8
69.3
63.4
57.8
52.8
48.5
45.6
42.9
40.8
39.0
37.2
35.2
32.7
28.9
23.0
18.1
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