

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: P938956

Luminaire Tested: **GALN-SB1B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

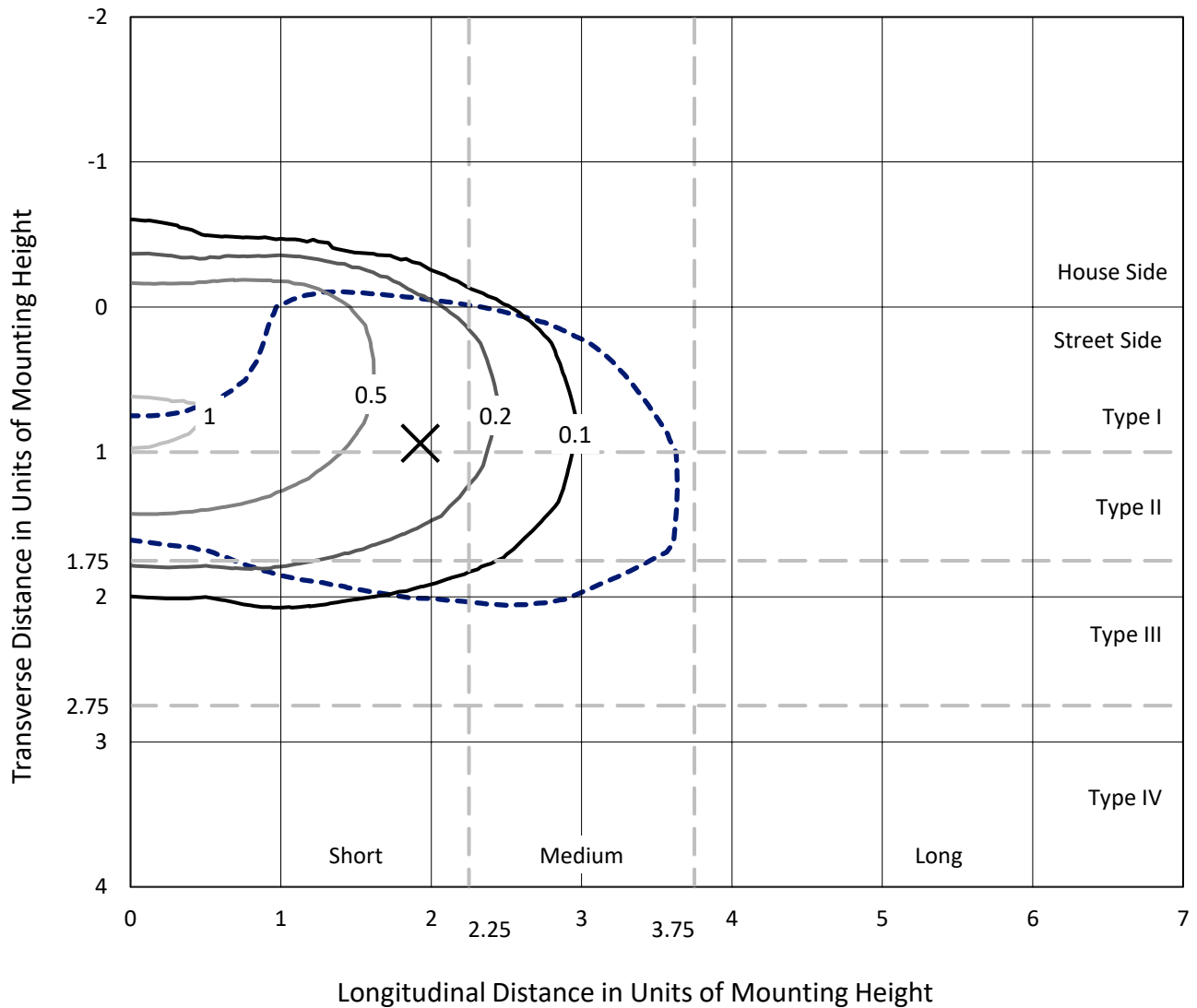
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

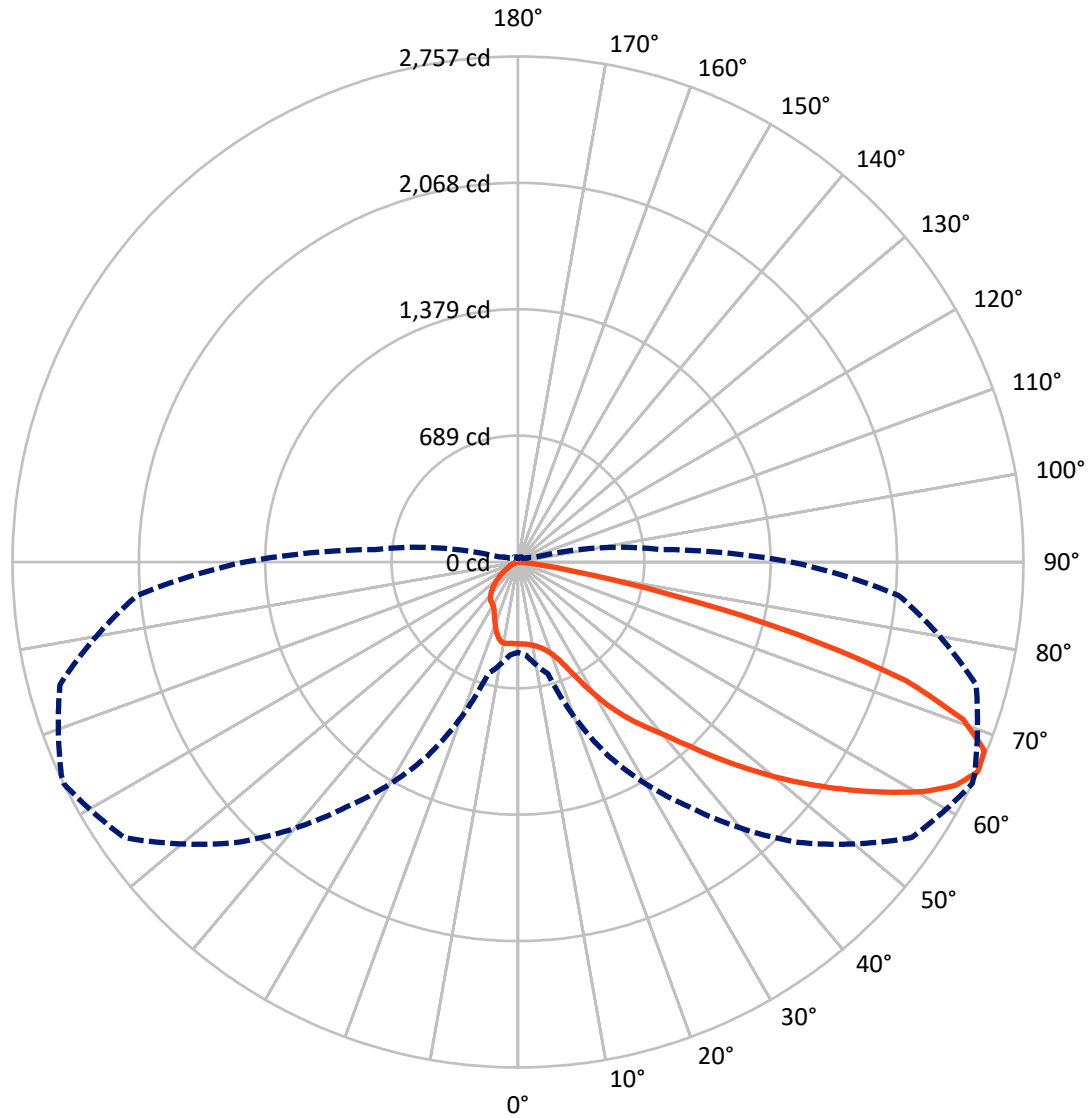
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.8	0.0	513.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3328.2	0.0	3328.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	3842.0	0.0	3842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.1
10°-20°	111.8	2.9
20°-30°	211.9	5.5
30°-40°	428.8	11.2
40°-50°	730.4	19.0
50°-60°	993.3	25.9
60°-70°	932.8	24.3
70°-80°	373.7	9.7
80°-90°	18.1	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°	3842.0	100.0
0°-180°	3842.0	100.0

Coefficient of Utilization



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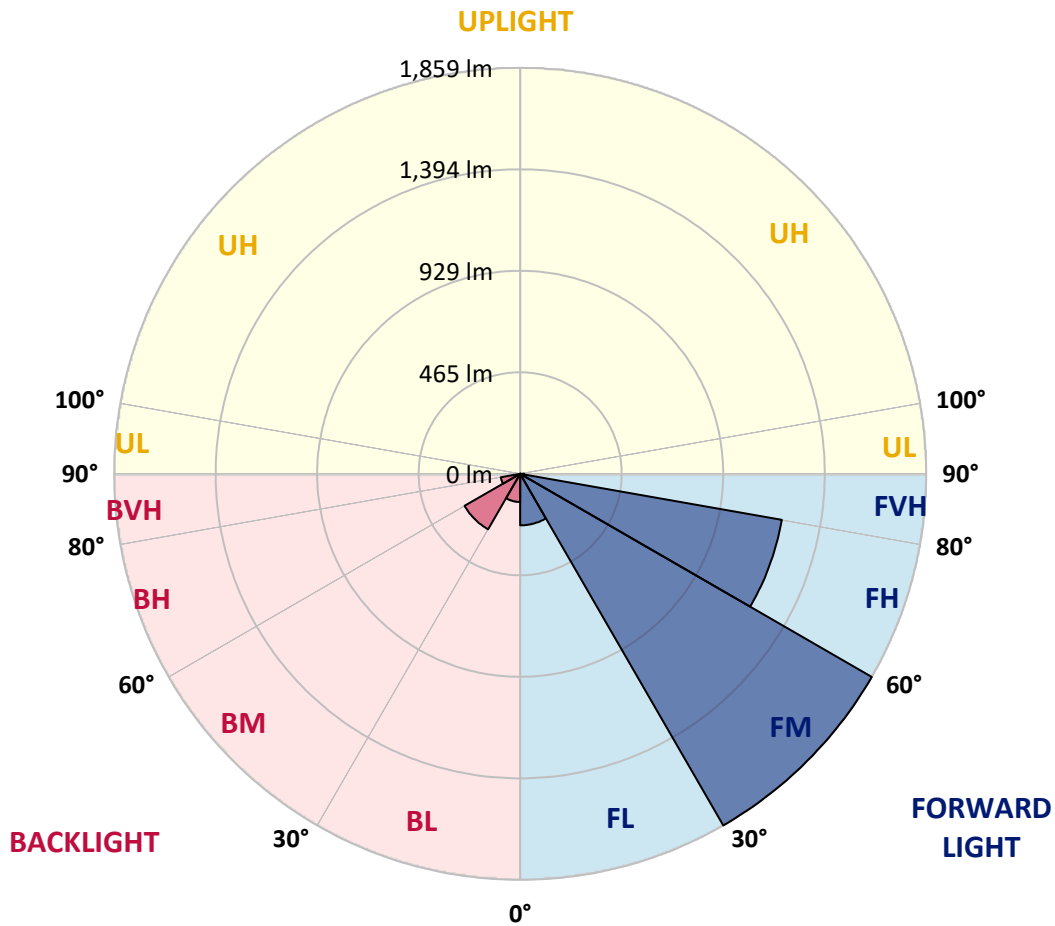
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.9	6.1			
FM (30°-60°)	1858.8	48.4			
FH (60°-80°)	1216.3	31.7			G1/1800
FVH (80°-90°)	17.2	0.4			G1/100
BL (0°-30°)	129.0	3.4	B1/500		
BM (30°-60°)	293.7	7.6	B1/1000		
BH (60°-80°)	90.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
2.5°	445.3	448.4	447.6	446.9	446.6	447.1	447.4	447.1	447.1	447.1
5°	436.8	439.4	439.4	441.2	443.8	446.9	449.2	449.7	450.2	451.0
7.5°	420.6	422.7	424.2	430.1	436.6	444.8	451.8	455.4	455.9	458.7
10°	409.5	412.1	414.7	420.9	430.1	442.5	454.3	463.1	464.4	471.1
12.5°	409.0	411.6	414.9	421.6	432.4	445.6	460.0	472.6	474.9	484.7
15°	414.4	417.5	420.6	428.8	440.4	456.4	471.8	487.6	489.9	503.8
17.5°	425.5	429.6	431.9	440.2	452.5	470.3	490.6	508.7	510.7	527.0
20°	447.4	452.3	453.0	459.7	471.8	490.9	515.1	537.5	540.1	558.6
22.5°	492.7	499.7	493.5	496.8	507.6	526.7	553.0	581.3	584.9	606.0
25°	572.6	582.3	566.4	560.7	565.3	585.2	618.1	653.9	658.1	675.1
27.5°	729.4	716.8	692.6	668.9	655.0	666.3	703.4	747.7	752.8	769.3
30°	901.7	890.6	857.9	805.4	772.4	770.6	804.9	854.3	860.2	876.0
32.5°	1074.3	1063.7	1028.2	963.5	906.3	878.0	901.7	956.6	959.7	969.7
35°	1244.0	1233.2	1197.6	1131.5	1061.1	996.8	992.1	1053.9	1055.0	1065.5
37.5°	1414.8	1405.8	1367.9	1303.0	1233.7	1144.8	1101.8	1146.1	1147.4	1157.7
40°	1536.6	1540.5	1514.4	1464.2	1404.7	1307.6	1224.9	1244.3	1236.5	1253.8
42.5°	1641.2	1648.9	1626.2	1601.0	1566.5	1481.0	1377.4	1374.1	1361.7	1371.0
45°	1731.6	1738.0	1717.7	1711.7	1711.0	1651.0	1544.1	1524.0	1506.7	1504.9
47.5°	1764.8	1777.2	1785.9	1805.7	1844.4	1819.1	1716.4	1685.2	1665.9	1651.7
50°	1777.4	1790.5	1820.4	1878.1	1969.6	1980.4	1887.9	1852.9	1829.2	1803.4
52.5°	1760.4	1783.9	1824.0	1921.1	2053.8	2109.7	2052.5	2021.8	1994.8	1952.8
55°	1660.2	1683.7	1765.8	1920.6	2095.8	2200.3	2208.1	2194.4	2164.0	2097.8
57.5°	1449.0	1483.8	1613.9	1855.2	2095.0	2278.4	2360.5	2370.3	2336.3	2241.5
60°	1156.4	1203.6	1362.2	1710.2	2030.3	2320.6	2494.2	2543.1	2507.1	2383.2
62.5°	806.9	861.5	1011.7	1483.0	1882.5	2290.2	2591.8	2682.2	2654.9	2509.9
65°	492.2	509.7	630.8	1167.0	1631.1	2163.0	2621.9	2757.4	2748.4	2587.4
67.5°	327.9	342.6	377.3	800.2	1266.2	1908.8	2549.8	2744.3	2746.9	2574.8
70°	197.5	210.2	232.8	465.4	820.6	1510.8	2326.5	2576.9	2591.8	2406.1
72.5°	81.4	89.9	110.5	210.9	425.0	958.9	1852.6	2212.4	2247.2	2023.1
75°	46.1	50.5	64.9	105.9	184.4	446.9	1122.2	1570.6	1621.8	1394.4
77.5°	30.6	32.7	42.0	68.5	103.8	152.5	479.6	818.3	916.1	761.6
80°	20.6	22.4	28.8	45.8	67.5	65.4	152.7	303.1	372.9	261.7
82.5°	13.9	14.2	20.6	30.1	42.8	31.7	45.1	94.3	118.5	75.7
85°	8.0	7.7	15.2	17.5	19.1	13.1	13.7	28.3	37.1	31.9
87.5°	1.0	1.5	5.9	4.6	2.6	2.8	2.8	4.9	7.2	7.7
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°
446.9	0°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
447.4	2.5°	447.4	447.1	446.3	445.6	443.8	442.7	443.3	442.7	442.5	442.7
450.7	5°	450.7	450.0	447.9	445.3	441.7	437.3	434.5	430.4	426.5	424.2
459.7	7.5°	459.7	459.0	456.1	448.9	437.3	419.0	402.3	387.6	376.6	370.1
474.2	10°	474.2	472.9	468.5	452.5	422.1	382.2	349.0	321.4	303.4	294.9
491.2	12.5°	491.2	489.6	481.9	449.2	393.3	331.0	285.1	254.5	237.7	230.3
510.7	15°	511.3	509.2	494.0	433.2	351.3	274.3	232.3	209.4	198.6	191.9
535.7	17.5°	536.2	532.6	503.0	409.3	305.7	231.0	199.9	182.6	173.1	166.6
568.4	20°	568.7	562.8	510.2	380.7	263.7	203.7	178.0	163.5	156.3	150.7
614.8	22.5°	614.0	605.5	519.0	349.8	234.1	184.9	161.7	151.2	145.3	138.8
679.4	25°	670.2	660.1	529.8	321.2	213.8	168.7	149.9	141.1	134.2	126.7
764.2	27.5°	748.7	730.7	542.7	297.7	196.3	154.8	139.1	129.3	121.3	115.1
860.2	30°	836.3	806.7	554.0	283.6	180.3	141.9	124.9	115.1	107.7	103.3
946.5	32.5°	919.2	879.0	561.5	277.4	165.9	127.2	109.5	98.9	93.2	91.9
1031.0	35°	997.5	944.5	560.7	271.5	153.0	112.6	94.3	83.4	79.1	79.8
1121.9	37.5°	1087.7	1014.3	555.3	262.2	142.4	99.2	81.1	71.6	67.7	68.0
1232.4	40°	1192.5	1094.9	551.9	244.7	130.8	86.8	70.3	62.6	59.8	58.7
1348.8	42.5°	1304.3	1172.9	552.5	224.8	116.4	75.7	62.8	56.4	53.8	53.1
1478.4	45°	1416.6	1247.4	553.2	204.2	101.2	67.2	57.4	52.0	50.5	49.5
1609.7	47.5°	1522.2	1310.7	538.8	182.1	86.3	60.8	53.1	49.5	48.2	46.9
1741.6	50°	1620.6	1353.0	504.0	156.3	74.4	55.6	49.7	47.1	45.8	44.6
1861.1	52.5°	1697.1	1359.7	446.6	129.8	66.2	51.8	47.6	45.3	43.8	42.5
1957.7	55°	1731.1	1317.7	365.0	105.1	59.8	48.4	45.6	43.3	41.5	40.2
2033.7	57.5°	1722.3	1229.3	284.6	84.5	53.6	45.1	43.0	41.5	39.4	37.3
2095.2	60°	1679.3	1111.1	214.5	70.3	47.9	41.5	40.2	38.9	36.1	33.0
2118.9	62.5°	1604.8	962.5	153.0	58.2	41.7	37.3	36.8	35.8	31.7	26.0
2083.9	65°	1491.0	781.9	103.0	48.4	35.8	32.7	33.0	31.2	25.8	19.3
1955.6	67.5°	1324.6	571.8	65.9	39.7	29.9	27.3	27.6	26.5	21.9	16.5
1712.5	70°	1112.7	378.6	43.0	30.1	24.0	21.1	22.7	22.9	18.5	13.4
1314.3	72.5°	815.7	223.6	30.1	22.4	17.5	14.7	18.5	19.1	14.9	10.0
790.7	75°	464.9	106.1	22.7	16.2	10.8	10.3	14.4	14.4	10.3	6.7
342.3	77.5°	195.2	44.3	16.0	10.6	6.2	5.9	9.8	9.0	5.2	3.1
83.4	80°	56.4	19.8	8.5	5.2	2.6	2.3	3.9	2.8	1.3	0.5
31.7	82.5°	22.2	8.8	3.3	2.1	1.0	1.0	0.5	0.0	0.0	0.0
18.0	85°	13.1	3.6	1.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0
3.9	87.5°	3.3	0.8	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>
446.9
443.8
424.7
370.4
294.1
229.5
192.1
166.1
149.6
137.8
125.9
113.8
102.5
92.7
79.8
69.0
58.5
52.8
49.5
46.9
44.6
42.2
39.9
37.1
32.5
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