

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: P945517

Luminaire Tested: **GALN-SB1B-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945517
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-SB1B-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA 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: 3119 lumens
Efficiency: N/A
Efficacy: 78.4 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

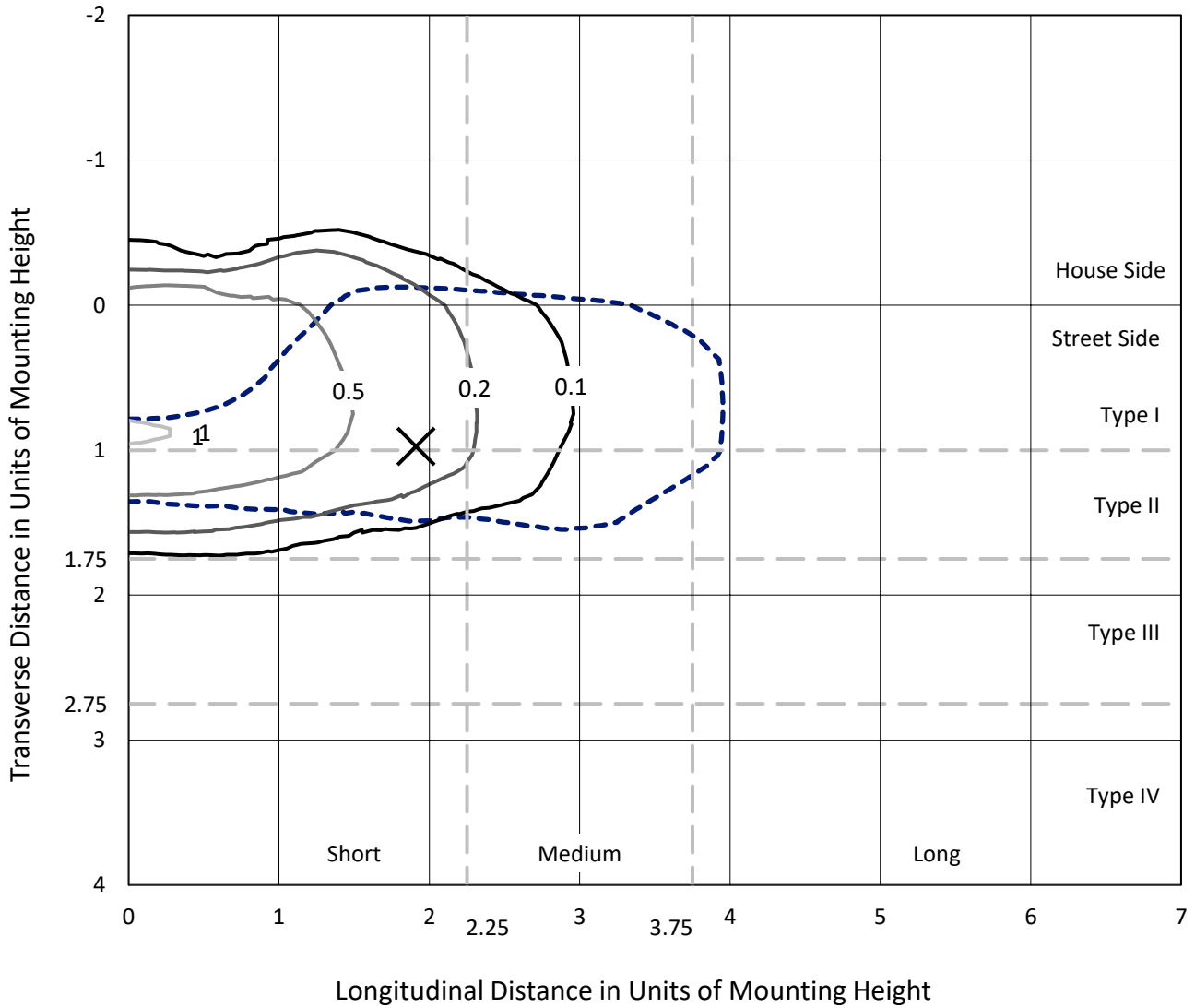
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

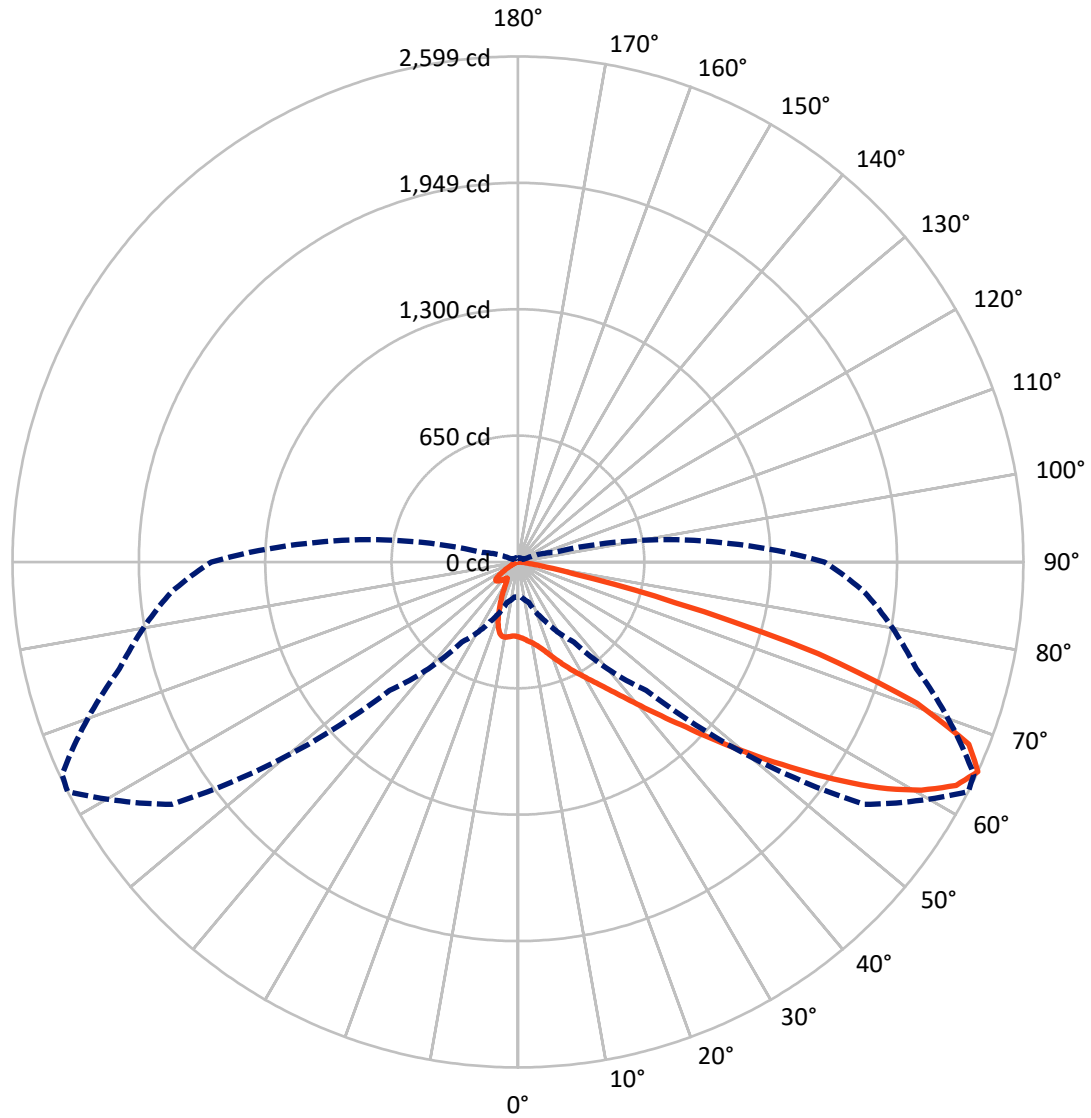
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type 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	458.5	0.0	458.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2660.5	0.0	2660.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	3119.0	0.0	3119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.2
10°-20°	100.6	3.2
20°-30°	175.2	5.6
30°-40°	315.8	10.1
40°-50°	626.4	20.1
50°-60°	853.3	27.4
60°-70°	681.1	21.8
70°-80°	308.2	9.9
80°-90°	22.2	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°	3119.0	100.0
0°-180°	3119.0	100.0

Coefficient of Utilization



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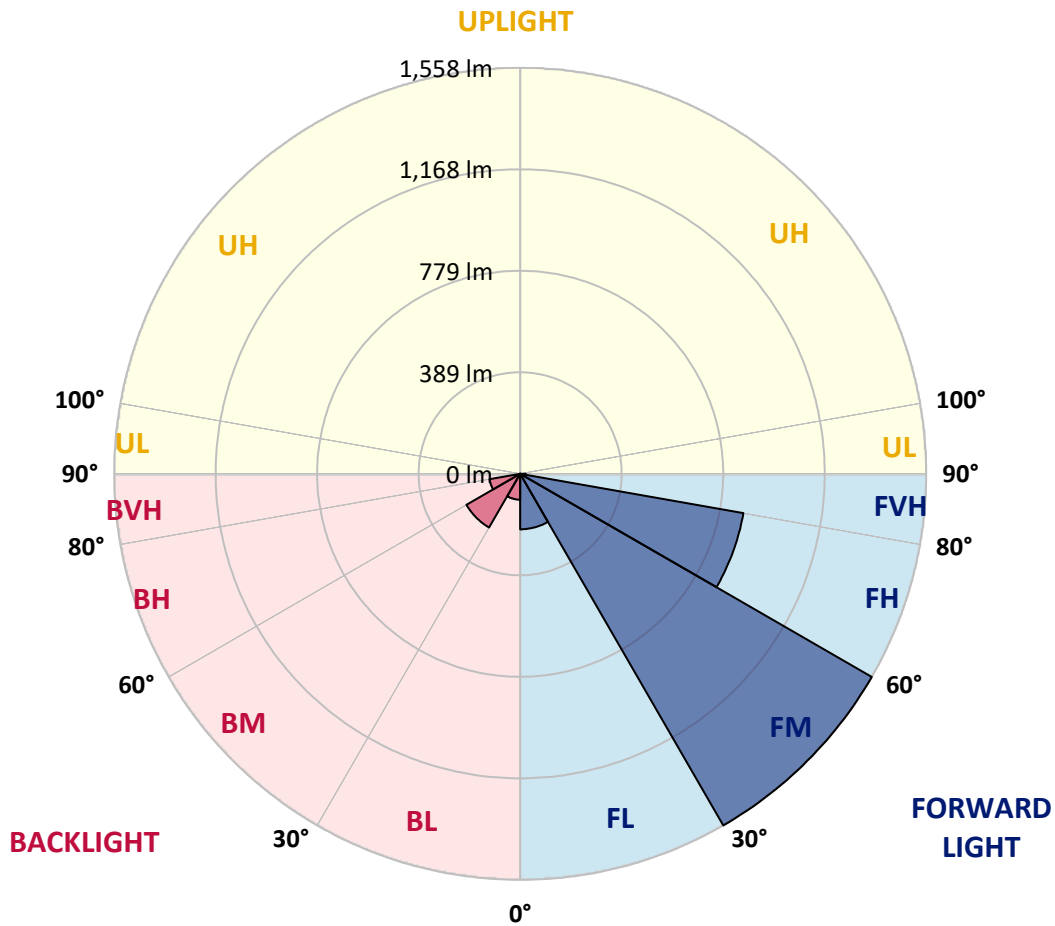
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.9	6.8			
FM (30°-60°)	1557.6	49.9			
FH (60°-80°)	869.6	27.9			G1/1800
FVH (80°-90°)	20.5	0.7			G1/100
BL (0°-30°)	99.2	3.2	B0/110		
BM (30°-60°)	237.9	7.6	B1/1000		
BH (60°-80°)	119.7	3.8	B1/500		G1/500
BVH (80°-90°)	1.6	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°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	394.0	392.9	394.4	393.7	393.3	392.5	392.0	391.6	390.7	390.1
5°	395.0	394.4	395.9	397.2	398.5	399.7	400.4	401.3	400.4	398.7
7.5°	386.0	385.6	388.8	392.7	398.5	403.4	408.8	411.8	412.0	411.3
10°	385.4	384.3	387.5	392.2	399.7	408.5	418.0	424.4	425.3	428.1
12.5°	395.5	394.4	398.9	404.0	411.8	421.0	432.6	441.6	442.9	446.7
15°	412.4	410.9	416.1	422.7	432.6	443.1	455.3	463.5	464.6	469.3
17.5°	432.1	430.6	436.7	443.7	454.5	468.8	483.0	492.0	493.3	496.3
20°	457.5	455.5	460.3	466.7	478.1	495.2	512.2	525.1	524.8	524.8
22.5°	486.9	483.9	487.9	493.1	503.8	524.6	547.2	562.4	562.4	556.4
25°	518.4	515.4	519.9	524.6	534.1	557.7	584.1	602.9	603.8	593.5
27.5°	557.9	554.0	557.5	563.0	568.6	592.6	624.0	645.9	646.3	630.4
30°	633.8	622.9	612.2	606.2	608.7	632.6	666.0	690.3	692.4	670.5
32.5°	772.9	770.7	733.0	683.6	657.9	675.5	713.0	742.2	743.5	715.4
35°	989.0	986.4	925.7	831.7	747.8	733.0	770.1	804.6	803.8	772.0
37.5°	1246.9	1244.5	1164.5	1038.7	902.9	819.9	843.7	880.0	885.3	843.7
40°	1467.2	1458.5	1407.8	1286.6	1108.9	964.1	948.4	972.4	978.0	928.7
42.5°	1634.2	1626.7	1600.9	1525.2	1358.2	1177.4	1071.8	1081.0	1087.2	1028.0
45°	1720.7	1718.9	1729.2	1722.2	1612.3	1439.1	1248.2	1209.8	1212.1	1138.1
47.5°	1732.9	1732.0	1779.0	1845.5	1830.7	1734.4	1474.5	1370.3	1361.9	1262.3
50°	1660.8	1659.1	1749.2	1873.9	1976.6	1982.4	1731.6	1551.1	1532.7	1390.9
52.5°	1430.6	1430.1	1578.2	1785.7	2027.9	2199.6	1985.7	1749.8	1718.9	1526.9
55°	1100.8	1108.7	1278.4	1523.7	1934.4	2304.1	2213.7	1970.4	1923.0	1663.8
57.5°	779.8	791.3	959.1	1177.6	1644.3	2242.3	2368.0	2191.4	2140.4	1800.3
60°	418.8	429.1	597.2	857.9	1223.3	2011.8	2449.3	2383.3	2335.0	1929.9
62.5°	249.5	253.0	322.5	553.8	827.4	1537.0	2414.8	2529.4	2489.7	2038.7
65°	179.2	179.8	214.8	338.2	502.3	933.8	2172.5	2599.3	2587.1	2120.6
67.5°	150.8	150.4	165.0	224.7	342.2	467.8	1665.1	2500.4	2552.3	2172.5
70°	129.4	130.0	147.2	164.6	257.3	264.8	827.8	2177.1	2287.8	2186.3
72.5°	96.3	98.5	114.4	150.0	194.2	182.2	285.8	1614.2	1814.4	2059.9
75°	68.0	69.1	80.5	126.2	144.8	132.6	145.9	834.5	1091.1	1579.3
77.5°	52.4	54.3	60.9	88.2	142.7	93.1	89.3	288.8	443.7	954.0
80°	28.3	31.8	44.0	63.7	100.2	65.9	44.2	115.0	150.4	446.1
82.5°	14.6	16.3	30.7	45.9	57.1	57.5	21.9	47.8	62.0	137.8
85°	5.8	7.1	20.6	25.3	29.4	28.3	9.9	19.3	22.3	38.2
87.5°	1.3	2.1	7.5	5.8	5.6	6.0	2.4	4.5	4.3	4.5
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°
384.9	0°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
387.5	2.5°	387.3	386.4	384.1	381.5	378.5	376.8	375.7	375.5	374.0	372.9
396.1	5°	393.7	392.9	388.4	383.0	377.2	372.7	368.4	364.6	359.0	357.9
408.5	7.5°	406.6	404.3	397.0	389.7	378.7	365.6	349.8	331.5	315.2	310.3
425.1	10°	422.5	419.3	410.0	397.2	372.9	337.3	298.9	263.3	235.0	227.0
444.6	12.5°	440.5	437.7	425.5	401.7	348.7	284.1	225.3	181.1	153.6	146.8
465.4	15°	462.0	457.9	440.9	394.8	305.3	215.9	154.7	128.5	118.7	117.4
489.2	17.5°	484.7	478.1	454.7	370.1	247.0	153.4	119.5	112.0	107.7	106.4
513.3	20°	505.5	497.0	462.8	332.8	184.5	119.5	107.1	102.1	98.3	96.8
537.3	22.5°	526.3	514.1	462.8	281.9	138.4	106.0	98.3	93.8	89.3	87.3
563.0	25°	548.0	531.7	454.7	225.3	111.4	97.2	89.9	85.0	81.1	78.7
587.5	27.5°	569.0	546.5	436.0	171.7	99.1	89.5	82.2	77.5	73.8	72.1
614.1	30°	589.0	561.1	409.8	130.2	91.2	82.0	75.1	71.0	67.4	65.7
648.7	32.5°	616.0	579.6	381.9	106.9	84.3	74.9	68.7	64.8	61.6	60.3
693.5	35°	653.6	606.8	357.9	104.9	78.5	69.1	62.9	59.2	56.0	54.9
751.4	37.5°	706.8	650.8	345.2	117.8	73.8	63.9	58.1	54.3	51.3	50.4
825.0	40°	772.5	710.5	352.1	130.7	70.6	59.4	53.9	50.0	47.4	46.3
909.6	42.5°	850.4	784.0	390.1	140.5	68.4	55.6	49.8	45.5	43.8	43.3
1005.5	45°	939.8	864.9	448.2	151.1	65.0	51.9	45.7	42.5	41.2	41.0
1109.8	47.5°	1041.5	953.8	515.6	164.1	61.6	48.5	42.5	40.3	39.3	38.8
1218.6	50°	1142.4	1043.3	584.9	171.4	58.8	45.3	39.9	38.2	37.3	37.1
1333.6	52.5°	1248.0	1135.3	640.9	164.6	56.4	42.7	37.8	36.5	35.6	35.4
1439.6	55°	1348.6	1209.8	650.6	139.7	51.7	40.1	35.4	34.8	33.7	33.7
1547.1	57.5°	1435.3	1247.1	582.4	102.6	47.0	36.3	33.0	32.4	31.5	31.3
1644.1	60°	1514.9	1236.4	449.5	69.1	41.8	32.4	30.0	29.6	28.8	27.7
1728.4	62.5°	1559.7	1189.2	307.5	45.1	36.7	28.3	26.6	26.4	24.5	22.3
1790.8	65°	1576.7	1092.2	191.8	32.8	30.7	24.2	23.0	22.5	19.7	17.4
1826.2	67.5°	1561.9	932.5	96.8	26.0	24.2	20.2	18.9	18.9	17.0	14.8
1824.1	70°	1502.7	699.1	40.8	20.8	18.7	15.4	15.4	16.3	14.4	12.0
1729.5	72.5°	1374.1	470.3	21.7	15.9	13.9	10.9	12.7	13.3	11.4	9.0
1415.5	75°	1092.4	286.9	15.0	11.8	8.8	7.7	9.7	10.1	7.7	6.0
970.5	77.5°	747.1	164.8	10.1	7.5	5.6	4.5	6.7	6.2	4.1	2.8
374.2	80°	328.1	68.7	5.8	3.4	2.1	1.7	2.4	1.7	1.3	0.9
51.3	82.5°	38.4	16.1	2.1	1.3	0.9	0.4	0.2	0.0	0.0	0.0
15.7	85°	7.9	1.9	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	1.5	0.4	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>
384.9
374.0
357.5
307.9
224.0
144.8
116.1
105.8
95.9
86.3
77.9
72.1
65.9
60.3
54.9
50.2
46.1
43.3
40.8
38.8
37.1
35.4
33.5
31.1
27.5
21.9
17.2
14.6
11.8
9.0
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