

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: P939004

Luminaire Tested: **GALN-SB1B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2504 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

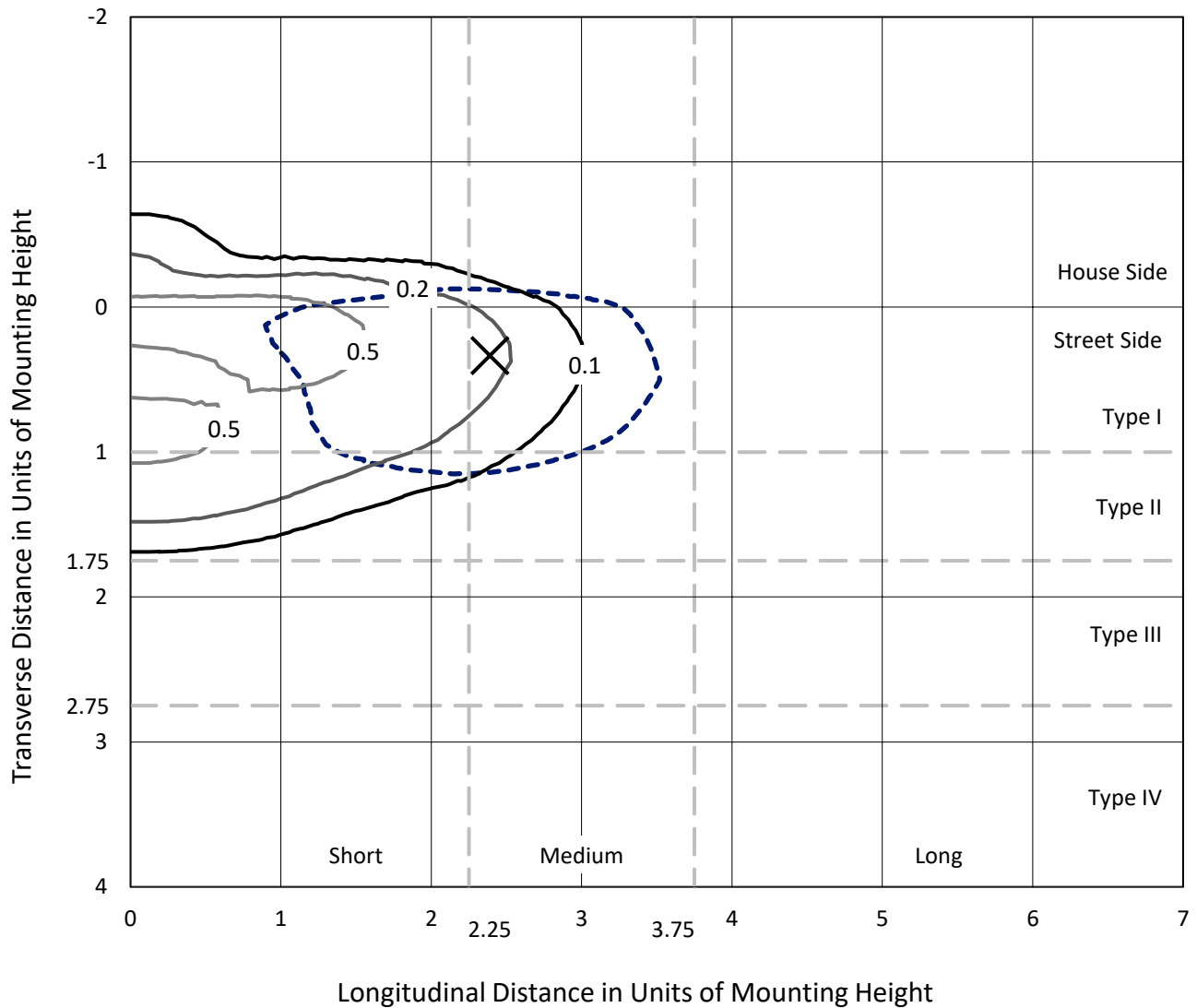
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

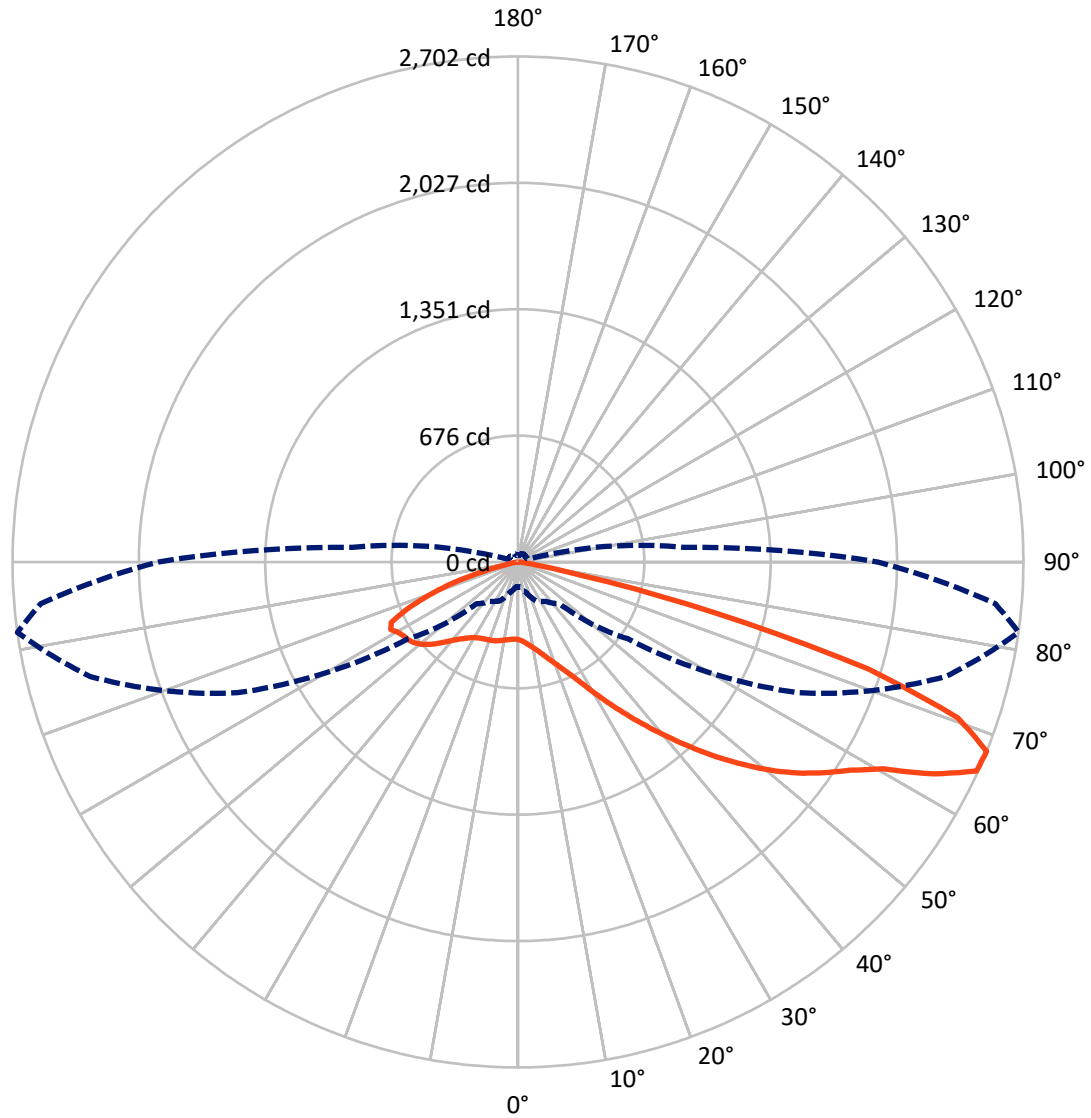
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.6	0.0	453.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2050.4	0.0	2050.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	2504.0	0.0	2504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.5
10°-20°	96.0	3.8
20°-30°	153.8	6.1
30°-40°	272.0	10.9
40°-50°	476.6	19.0
50°-60°	635.6	25.4
60°-70°	591.7	23.6
70°-80°	227.1	9.1
80°-90°	14.1	0.6
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°	2504.0	100.0
0°-180°	2504.0	100.0

Coefficient of Utilization



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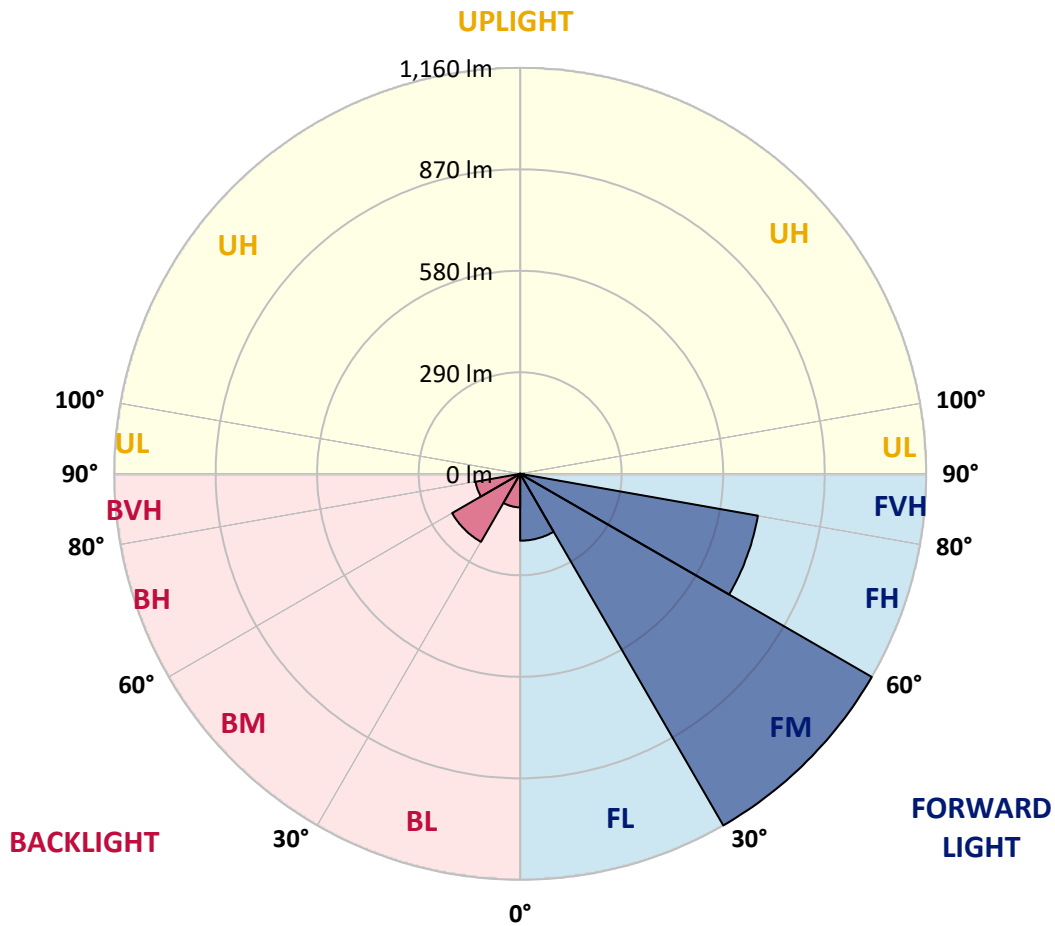
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.0	7.6			
FM (30°-60°)	1159.7	46.3			
FH (60°-80°)	689.4	27.5			G1/1800
FVH (80°-90°)	10.3	0.4			G1/100
BL (0°-30°)	95.8	3.8	B0/110		
BM (30°-60°)	224.5	9.0	B1/1000		
BH (60°-80°)	129.5	5.2	B1/500		G1/500
BVH (80°-90°)	3.9	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8
2.5°	438.4	441.0	439.5	438.8	437.5	435.7	434.3	429.8	425.1	422.0
5°	447.3	449.8	449.6	450.3	451.2	451.8	451.4	446.4	439.7	434.5
7.5°	439.7	442.6	444.9	448.5	454.9	461.5	464.8	463.7	456.8	449.6
10°	418.3	421.3	426.9	435.4	448.7	463.1	475.2	480.8	476.5	468.6
12.5°	379.0	382.0	393.0	411.4	433.8	458.8	481.9	496.9	497.9	490.0
15°	334.8	337.8	349.6	372.6	406.7	446.9	485.5	513.8	523.4	516.5
17.5°	307.4	310.1	318.9	337.5	373.0	423.1	484.2	531.8	553.6	548.2
20°	299.1	301.4	305.6	318.6	348.1	398.4	475.9	548.8	586.3	583.2
22.5°	307.9	310.1	311.3	317.1	335.7	382.2	465.5	566.1	624.1	624.5
25°	328.3	330.5	329.0	332.6	340.7	377.1	461.5	586.5	671.7	675.7
27.5°	361.8	362.0	358.6	358.4	359.7	384.7	465.7	608.3	731.8	739.2
30°	429.1	426.4	413.2	399.0	392.5	407.4	477.2	634.1	802.6	815.8
32.5°	532.7	528.8	504.6	470.5	436.3	444.0	497.9	663.4	879.8	903.6
35°	645.2	644.1	618.9	568.2	508.4	496.1	531.7	702.0	964.0	1001.8
37.5°	749.8	749.3	734.8	675.2	602.3	568.8	585.7	752.5	1054.1	1108.9
40°	845.3	847.0	832.5	779.2	705.8	662.0	659.3	814.9	1154.3	1225.6
42.5°	927.9	929.7	915.1	875.6	808.0	765.1	749.6	891.3	1252.2	1350.9
45°	984.0	995.2	993.0	961.4	912.9	868.4	858.1	987.2	1363.8	1483.7
47.5°	999.8	1010.1	1026.3	1030.7	1001.1	957.3	969.6	1102.8	1476.7	1616.8
50°	960.7	970.3	1004.0	1048.9	1069.4	1055.9	1077.9	1226.6	1592.2	1749.5
52.5°	883.6	893.3	935.8	1006.9	1090.7	1133.3	1186.6	1348.7	1704.2	1875.1
55°	772.0	782.2	836.9	917.3	1050.1	1165.2	1277.3	1470.6	1806.8	1988.1
57.5°	620.2	627.7	684.5	797.0	948.1	1133.4	1344.2	1603.6	1903.4	2099.2
60°	404.2	410.9	476.8	602.3	779.0	1027.4	1357.5	1752.0	2031.8	2243.6
62.5°	268.8	273.3	312.4	404.6	548.6	823.9	1279.5	1870.4	2220.0	2494.9
65°	184.4	188.9	228.1	292.2	354.4	545.0	1055.0	1854.7	2390.5	2694.5
67.5°	131.6	135.4	168.6	229.1	256.5	316.6	715.2	1654.3	2366.0	2702.1
70°	94.3	96.5	123.9	178.5	203.9	190.2	397.7	1265.2	2071.6	2495.1
72.5°	66.0	66.7	86.0	135.9	164.2	138.8	189.3	843.5	1566.8	1958.4
75°	44.7	45.6	57.9	99.7	131.8	106.0	100.2	452.3	919.8	1084.0
77.5°	27.4	27.8	37.3	68.1	98.6	80.8	64.5	191.6	355.9	349.4
80°	15.5	15.5	23.8	42.4	67.2	52.1	45.3	81.5	112.7	99.0
82.5°	8.7	8.8	17.3	26.3	44.5	30.8	24.9	37.7	48.7	43.1
85°	3.6	4.0	10.6	12.4	21.3	15.3	10.1	15.9	18.0	16.0
87.5°	0.4	0.5	3.2	2.3	2.5	3.1	1.4	3.1	2.5	2.5
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°
414.8	0°	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8
421.0	2.5°	417.5	414.8	408.0	400.0	389.6	384.5	377.7	373.0	369.0	369.4
431.4	5°	425.6	418.8	403.5	384.4	360.6	343.6	325.6	313.1	303.1	300.9
445.8	7.5°	436.8	426.0	399.1	364.7	324.5	294.0	266.8	249.3	236.9	232.9
463.3	10°	451.2	435.6	393.6	340.0	282.1	243.4	214.2	200.5	192.0	189.1
483.9	12.5°	468.0	446.6	386.2	309.9	238.5	201.2	182.6	175.8	173.1	172.2
509.1	15°	489.1	460.3	375.0	274.2	201.6	175.4	167.5	166.6	166.9	166.6
539.4	17.5°	514.2	475.2	356.8	237.4	176.7	162.3	159.4	160.1	161.0	160.8
573.3	20°	541.6	490.0	333.5	204.8	159.7	152.9	151.3	152.0	152.7	152.3
612.4	22.5°	572.8	505.9	307.7	179.4	148.4	144.2	142.4	142.6	142.6	141.9
662.0	25°	610.1	523.4	280.7	161.4	139.7	136.5	134.3	133.6	132.5	130.3
722.2	27.5°	654.6	541.9	254.7	148.7	132.9	129.8	127.3	125.5	122.8	119.2
794.5	30°	704.7	564.5	232.7	140.8	127.5	124.4	121.5	118.8	114.8	110.3
877.6	32.5°	763.7	588.6	216.7	135.6	122.6	119.3	115.9	112.7	108.3	103.8
971.0	35°	834.0	617.8	207.3	132.0	118.8	114.5	110.7	107.1	103.8	99.9
1072.5	37.5°	910.2	648.8	204.4	130.2	116.3	109.6	105.3	102.8	102.4	100.1
1182.3	40°	993.7	685.6	206.6	129.1	113.6	104.9	100.2	99.7	100.6	96.5
1299.7	42.5°	1082.1	729.2	210.2	127.8	109.8	100.2	95.7	95.7	95.0	89.2
1423.7	45°	1177.6	779.5	213.8	124.8	105.3	95.5	92.1	90.9	87.8	82.2
1548.4	47.5°	1273.9	830.7	216.5	119.2	99.9	91.6	88.5	85.6	81.1	76.1
1670.9	50°	1365.3	876.7	213.6	110.9	93.7	87.8	84.6	80.6	75.7	72.3
1786.8	52.5°	1446.9	916.6	201.4	101.1	87.3	83.8	80.9	76.8	72.8	69.2
1891.3	55°	1518.0	948.8	179.7	91.9	81.5	80.4	77.5	72.3	66.9	63.8
1995.0	57.5°	1586.1	973.3	152.7	84.4	76.3	76.6	72.3	67.6	62.6	59.3
2134.7	60°	1676.8	1006.2	125.3	77.3	70.7	71.8	67.1	63.6	57.3	53.2
2374.3	62.5°	1821.7	1057.2	99.5	68.7	64.2	64.5	62.6	58.4	50.8	46.0
2551.9	65°	1936.8	1038.4	78.4	59.3	56.8	57.3	57.3	52.8	44.7	39.1
2561.4	67.5°	1923.8	889.1	62.6	50.1	49.8	50.1	51.4	47.6	39.7	35.2
2366.4	70°	1772.2	707.2	50.1	41.6	43.3	42.4	46.0	43.4	35.7	31.2
1834.5	72.5°	1446.0	509.5	38.2	34.4	33.2	34.6	41.5	39.1	29.7	24.7
971.7	75°	845.0	271.9	28.5	27.2	24.0	28.8	36.8	33.4	22.7	18.2
297.8	77.5°	275.1	94.8	20.9	20.0	17.8	23.3	31.4	28.1	18.6	14.4
87.3	80°	73.7	28.7	14.2	13.2	11.5	17.3	24.9	22.4	13.3	9.4
37.5	82.5°	29.6	12.1	8.3	7.4	6.3	11.9	19.7	18.0	9.9	5.9
11.7	85°	9.6	4.0	3.1	2.3	2.9	7.4	11.7	12.3	7.0	3.1
1.8	87.5°	1.3	0.5	0.5	0.7	0.5	1.3	3.6	3.4	2.0	0.4
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>
414.8
365.8
296.0
229.0
187.0
171.6
166.4
160.5
152.2
141.5
130.0
118.8
110.0
104.0
99.5
99.9
96.6
89.2
82.0
75.9
71.8
68.9
63.5
59.0
52.6
45.6
38.6
34.4
30.6
24.2
17.7
13.9
9.2
5.9
2.3
0.0
0.0

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