

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: P939032

Luminaire Tested: **GALN-SB1B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

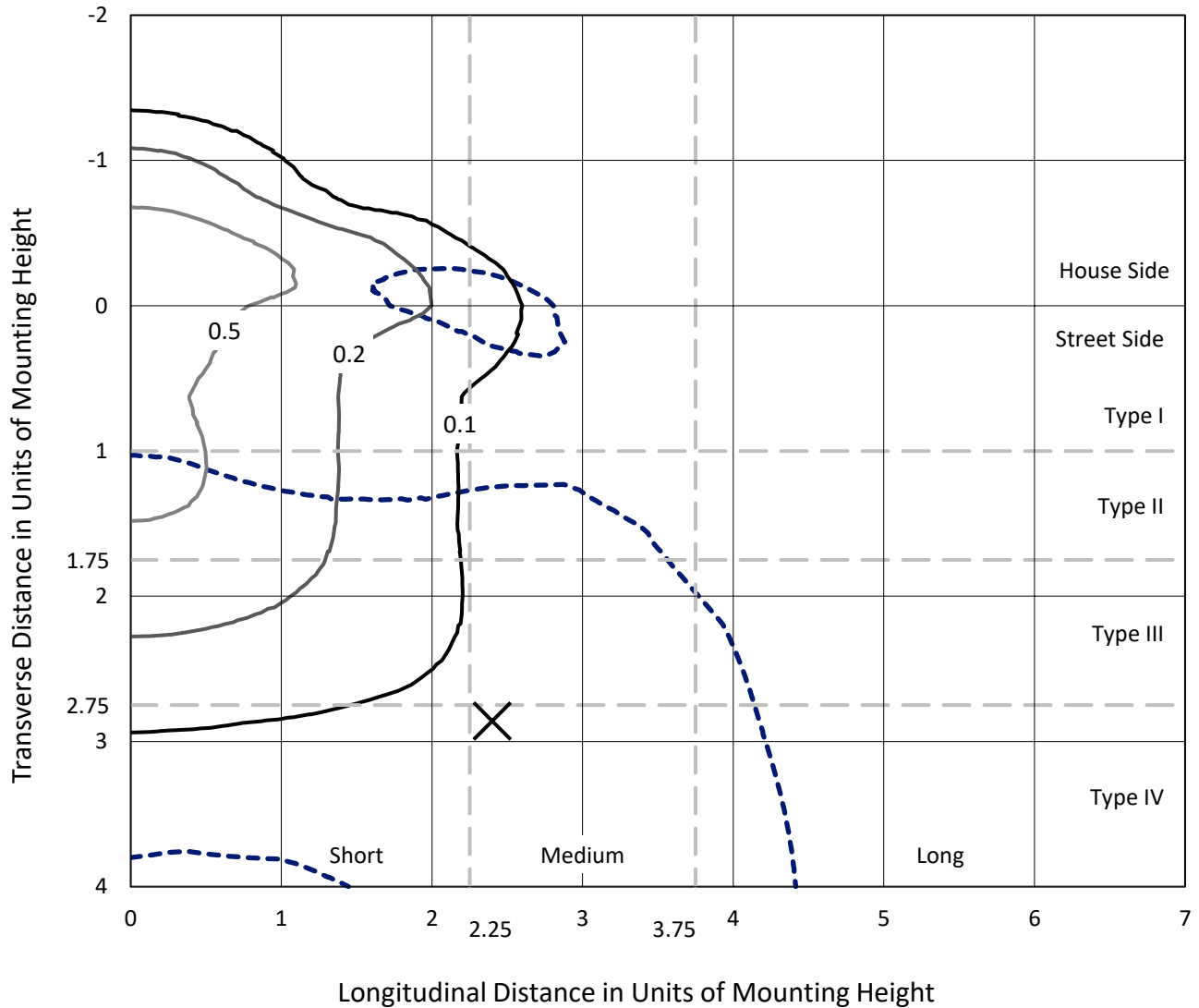
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

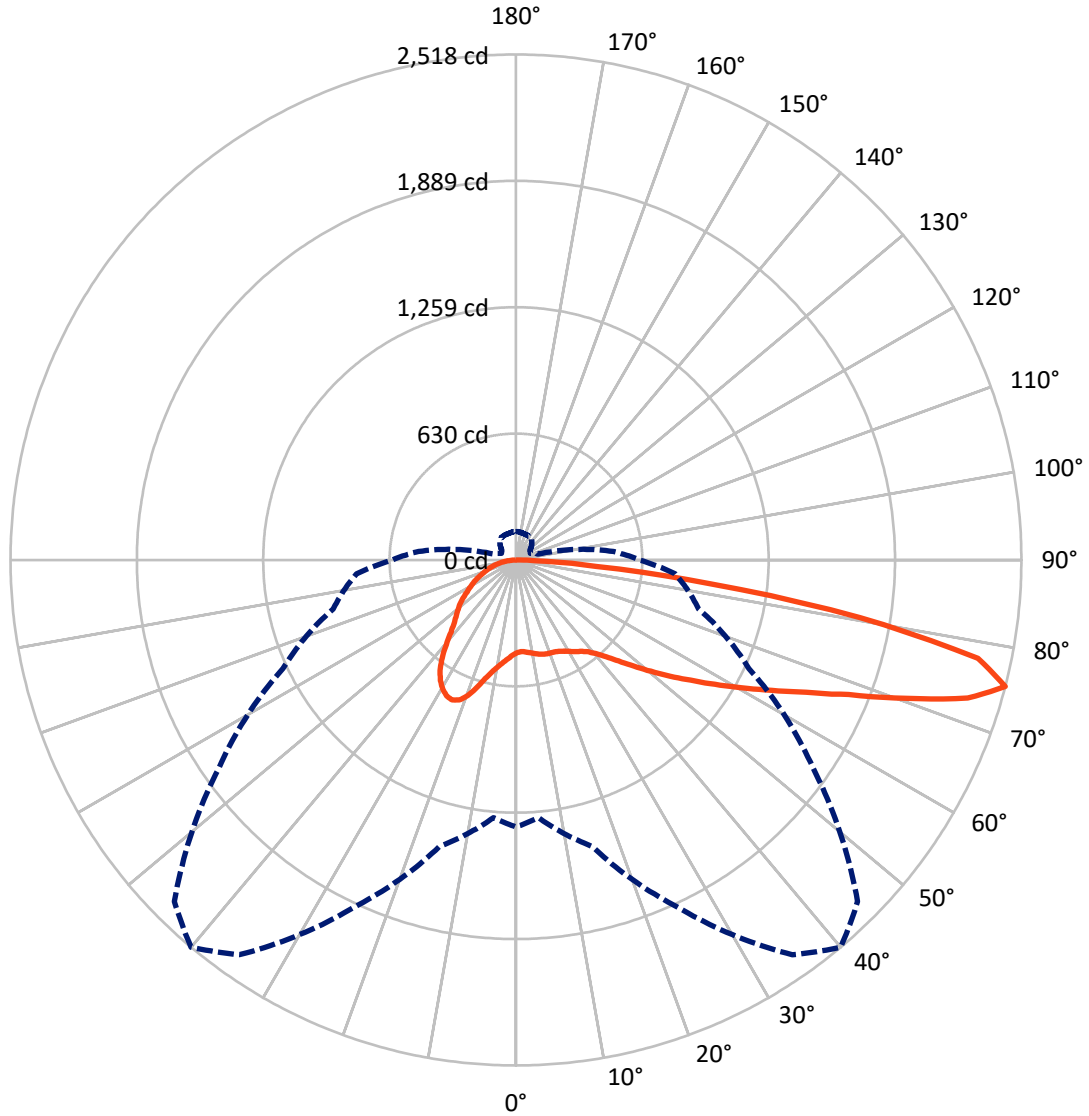
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.6	0.0	1253.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	2792.4	0.0	2792.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	4046.0	0.0	4046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	1.1
10°-20°	155.1	3.8
20°-30°	283.1	7.0
30°-40°	401.5	9.9
40°-50°	542.2	13.4
50°-60°	729.4	18.0
60°-70°	925.8	22.9
70°-80°	840.2	20.8
80°-90°	122.5	3.0
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°	4046.0	100.0
0°-180°	4046.0	100.0

Coefficient of Utilization



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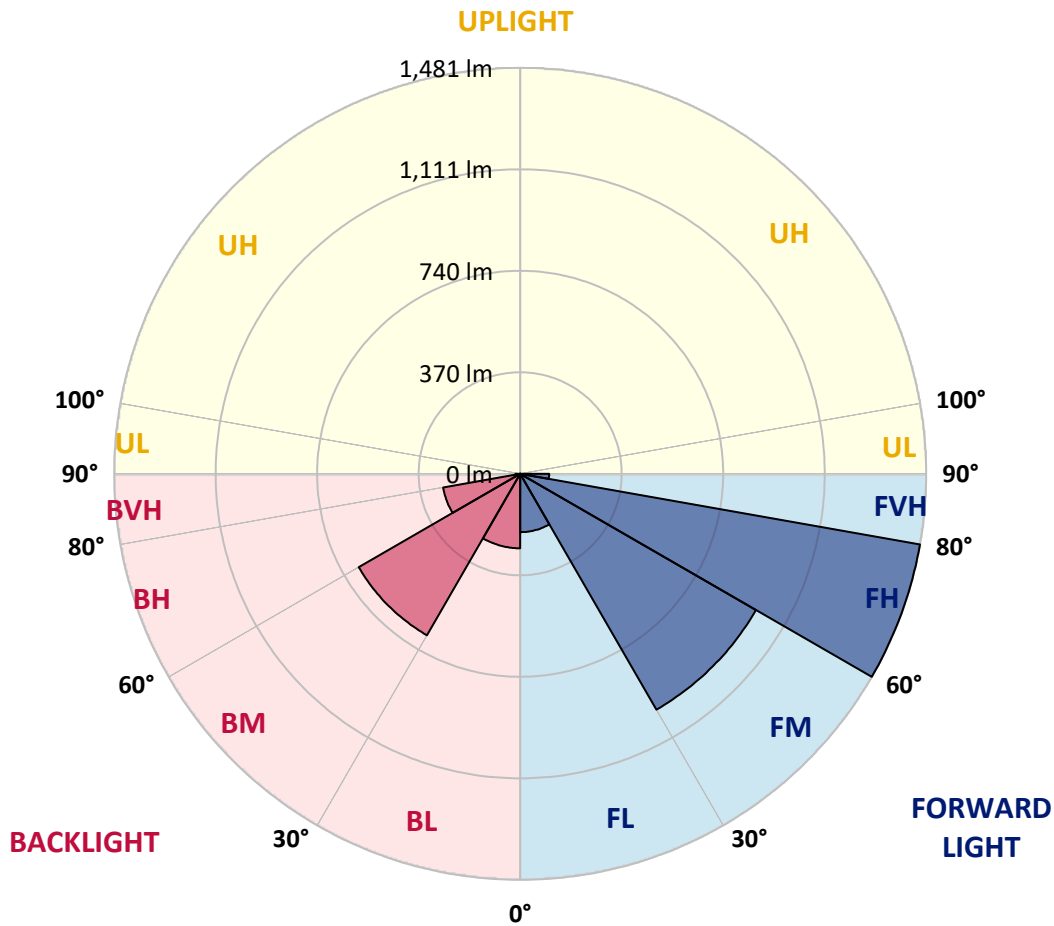
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.8	5.3			
FM (30°-60°)	993.2	24.5			
FH (60°-80°)	1480.8	36.6			G1/1800
FVH (80°-90°)	105.6	2.6			G2/225
BL (0°-30°)	271.5	6.7	B1/500		
BM (30°-60°)	680.0	16.8	B1/1000		
BH (60°-80°)	285.2	7.0	B1/500		G1/500
BVH (80°-90°)	16.9	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7
2.5°	455.6	458.2	457.5	456.7	456.7	456.9	456.7	458.2	459.7	461.2
5°	460.3	462.9	461.6	460.5	459.7	459.4	458.8	458.6	459.4	461.4
7.5°	469.5	472.1	470.2	468.2	466.5	465.7	464.8	463.5	462.9	464.0
10°	479.8	482.4	480.0	476.6	473.8	472.8	471.9	470.6	469.7	470.4
12.5°	490.1	492.7	489.5	484.8	481.1	480.5	479.4	479.0	478.8	478.5
15°	499.8	501.9	497.9	492.3	488.4	487.3	486.3	486.9	488.0	489.3
17.5°	507.3	509.4	503.4	496.1	492.5	492.1	491.4	493.6	496.6	499.8
20°	514.2	516.3	508.6	498.7	494.4	494.4	494.6	499.1	503.4	508.2
22.5°	523.8	525.5	516.1	502.6	496.4	496.8	498.5	503.0	508.4	514.8
25°	538.2	539.5	527.9	509.9	502.8	504.1	505.6	507.7	512.9	520.4
27.5°	561.4	562.5	547.2	522.8	512.0	514.2	516.3	514.8	517.2	523.6
30°	594.0	594.6	575.3	542.9	527.7	528.8	529.2	523.0	518.5	523.6
32.5°	632.6	632.4	609.4	567.4	545.5	544.4	540.8	528.5	518.0	522.5
35°	692.5	690.1	660.5	601.7	565.7	559.0	550.4	534.8	520.2	521.5
37.5°	791.6	784.3	743.4	657.9	595.7	578.8	566.1	544.9	524.9	521.0
40°	903.4	894.2	849.1	735.0	640.8	613.5	593.1	559.2	532.6	523.0
42.5°	1036.1	1023.0	974.5	825.8	697.9	658.4	627.7	577.5	544.0	529.2
45°	1198.9	1181.6	1112.9	928.1	769.8	717.2	676.2	605.2	561.4	541.2
47.5°	1363.5	1367.8	1270.2	1045.3	856.0	789.7	736.9	646.8	586.7	560.5
50°	1538.4	1541.4	1426.6	1175.1	953.9	871.7	805.2	693.4	621.9	588.0
52.5°	1674.9	1675.3	1568.7	1311.0	1055.8	961.8	878.8	746.6	662.7	624.5
55°	1760.3	1759.2	1668.3	1439.5	1173.0	1056.4	960.3	807.1	712.5	667.4
57.5°	1822.3	1819.1	1736.9	1550.0	1297.9	1168.3	1052.6	875.8	771.3	718.5
60°	1845.9	1844.0	1783.5	1645.5	1429.2	1291.9	1159.0	952.6	838.0	778.8
62.5°	1855.0	1858.6	1829.2	1738.0	1569.8	1428.8	1276.0	1044.4	913.1	847.0
65°	1886.7	1893.4	1887.4	1859.0	1728.6	1589.1	1431.1	1153.7	995.1	920.2
67.5°	1949.6	1956.2	1958.8	2003.9	1922.6	1788.9	1624.7	1289.7	1091.0	996.1
70°	1948.1	1946.2	1991.7	2119.1	2165.5	2065.5	1885.6	1457.1	1205.4	1059.2
72.5°	1773.2	1757.7	1865.3	2117.8	2367.6	2354.3	2204.3	1673.0	1304.1	1067.0
75°	1330.3	1289.1	1479.0	1908.6	2401.3	2518.3	2406.9	1806.9	1280.7	942.7
77.5°	568.9	527.5	751.3	1412.9	2149.2	2354.1	2221.1	1576.4	1022.3	623.4
80°	148.9	148.7	227.0	640.6	1461.6	1738.4	1525.1	1018.0	584.1	222.7
82.5°	61.6	60.1	83.5	249.1	714.2	975.5	796.1	454.1	210.9	60.3
85°	23.0	22.7	40.6	86.1	251.9	402.4	291.2	116.1	52.6	29.4
87.5°	6.4	6.2	8.8	29.8	61.4	93.1	49.8	19.1	14.8	11.6
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°
462.7	0°	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7
463.5	2.5°	464.2	465.2	467.2	468.7	470.6	472.8	475.8	477.7	479.6	480.9
464.6	5°	466.1	468.5	473.4	478.3	484.1	489.5	495.7	500.2	503.9	504.9
468.5	7.5°	470.4	474.3	482.6	491.0	500.2	509.0	518.0	525.8	532.0	534.3
475.3	10°	477.9	483.1	494.9	506.7	518.9	532.4	544.0	555.2	564.0	567.6
483.5	12.5°	487.3	493.8	509.2	525.5	542.5	561.2	576.2	589.9	600.9	605.8
494.9	15°	499.6	507.9	527.7	549.6	574.5	600.4	619.5	634.8	647.0	653.0
506.7	17.5°	512.9	524.0	548.9	582.0	617.6	651.7	674.0	685.2	697.9	703.7
517.6	20°	525.8	539.5	575.1	623.2	670.6	706.9	724.9	727.9	728.8	729.4
527.9	22.5°	539.1	557.5	607.9	675.1	726.0	751.1	753.7	740.8	722.8	714.4
538.0	25°	553.7	578.1	650.9	732.4	773.6	776.6	756.9	725.5	691.4	675.8
546.1	27.5°	567.8	601.9	702.4	787.1	807.9	781.6	739.1	694.6	653.4	636.9
551.9	30°	582.0	629.2	759.2	835.0	823.6	769.3	711.0	661.4	620.0	602.6
557.1	32.5°	596.4	661.0	824.7	869.5	820.8	743.4	676.0	624.0	587.6	569.3
561.6	35°	612.7	700.0	886.7	888.4	802.2	705.2	629.8	579.4	547.6	533.1
567.0	37.5°	633.9	749.6	941.4	893.1	769.5	649.1	572.5	526.6	500.4	493.8
574.9	40°	660.3	809.2	983.3	885.6	721.3	581.1	509.9	473.2	458.4	459.9
585.6	42.5°	694.6	876.0	1012.7	866.3	654.1	510.9	454.9	438.6	445.7	451.7
601.7	45°	739.3	945.3	1030.9	833.5	578.1	451.5	422.5	426.4	431.8	432.4
627.7	47.5°	796.4	1015.5	1042.9	783.9	500.6	409.7	401.9	402.8	401.7	397.2
666.5	50°	867.6	1083.7	1053.7	718.2	434.8	383.5	373.2	370.2	355.4	340.8
718.2	52.5°	948.7	1146.4	1058.2	636.7	383.5	361.6	344.9	326.0	298.3	293.8
783.3	55°	1038.9	1204.3	1046.6	536.5	340.3	333.5	308.2	285.4	282.4	278.5
868.9	57.5°	1146.6	1266.8	1023.0	424.7	296.1	300.6	276.0	278.5	273.2	267.2
979.0	60°	1264.4	1331.3	981.6	322.7	250.4	259.7	267.6	267.4	265.9	260.9
1095.1	62.5°	1370.4	1373.8	900.0	247.2	210.3	227.9	249.6	249.4	248.1	245.3
1216.3	65°	1433.5	1367.4	764.0	194.6	177.3	201.7	225.1	226.8	227.0	226.8
1307.5	67.5°	1422.3	1292.1	577.3	154.9	150.0	175.1	200.9	203.2	204.9	205.4
1319.1	70°	1296.2	1126.6	376.4	123.6	125.8	151.7	177.9	180.3	181.8	183.5
1144.6	72.5°	1010.3	828.3	215.5	100.0	104.5	131.5	155.2	157.9	158.8	162.0
796.6	75°	615.7	487.1	116.3	78.8	85.8	112.4	132.6	135.8	137.3	141.2
391.2	77.5°	292.7	210.9	66.3	61.4	69.1	91.8	112.0	115.7	111.6	113.7
107.9	80°	98.9	78.3	41.8	46.8	52.8	71.7	89.7	93.3	84.8	84.3
35.8	82.5°	34.5	31.8	26.6	31.1	34.1	51.3	67.8	72.5	63.1	62.9
16.1	85°	13.5	12.9	14.8	17.0	20.4	31.5	44.6	47.0	38.8	31.3
4.7	87.5°	2.8	3.0	3.6	3.9	6.2	10.9	16.1	19.7	15.7	13.3
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>
462.7
480.0
505.4
534.6
567.8
605.8
652.6
703.4
731.1
716.7
678.1
638.8
604.5
571.7
536.3
498.5
465.0
457.3
436.7
400.6
342.7
295.3
279.2
266.1
259.2
244.2
226.8
205.8
184.3
163.3
141.6
112.0
83.5
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30.9
12.2
0.0

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