

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: P938827

Luminaire Tested: **GALN-SB1A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295 lumens
Efficiency: N/A
Efficacy: 139.0 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

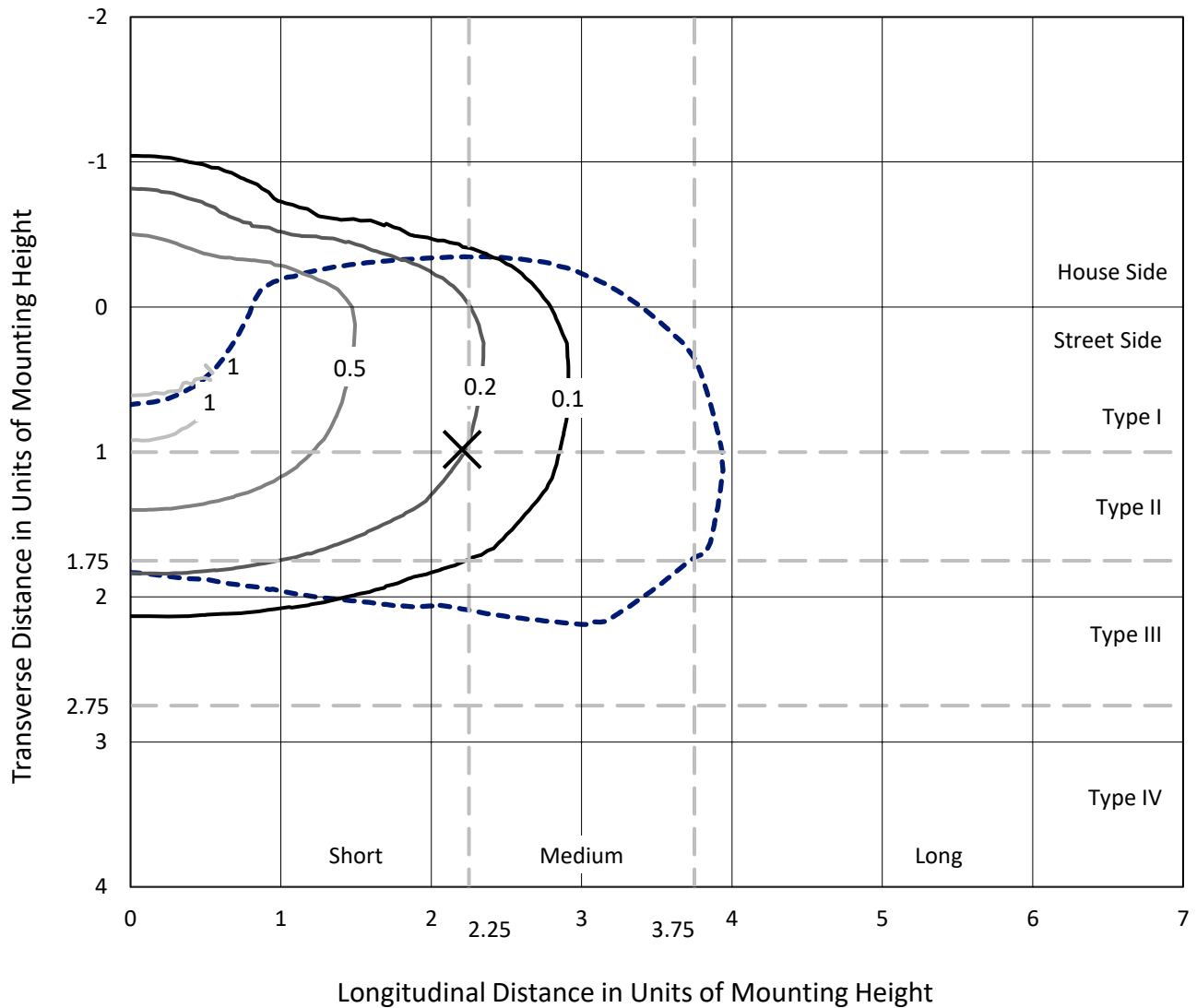
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

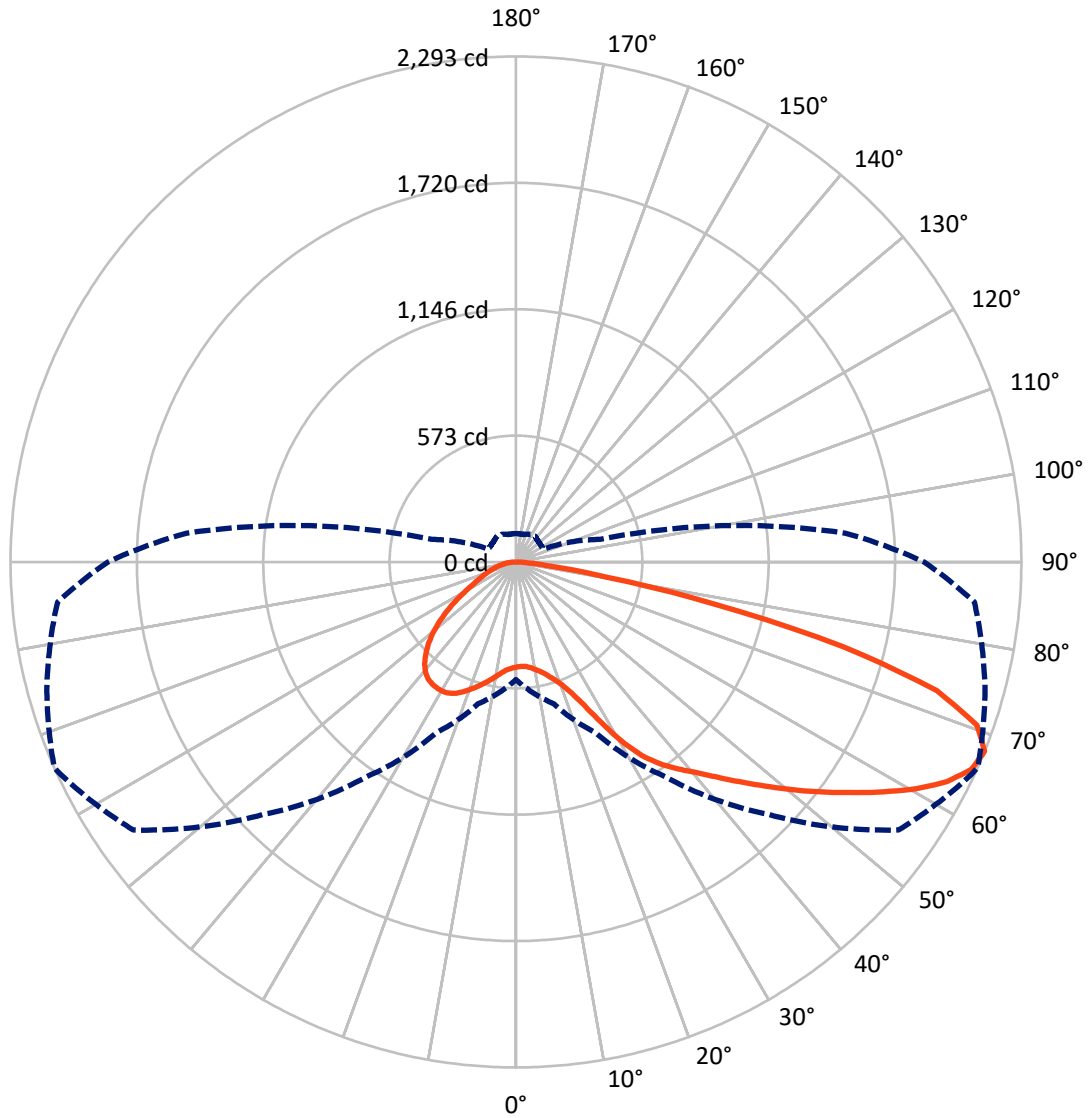
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.9	0.0	1067.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	3227.1	0.0	3227.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	4295.0	0.0	4295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	1.1
10°-20°	156.0	3.6
20°-30°	300.8	7.0
30°-40°	527.4	12.3
40°-50°	784.0	18.3
50°-60°	993.8	23.1
60°-70°	972.4	22.6
70°-80°	463.8	10.8
80°-90°	49.6	1.2
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°	4295.0	100.0
0°-180°	4295.0	100.0

Coefficient of Utilization



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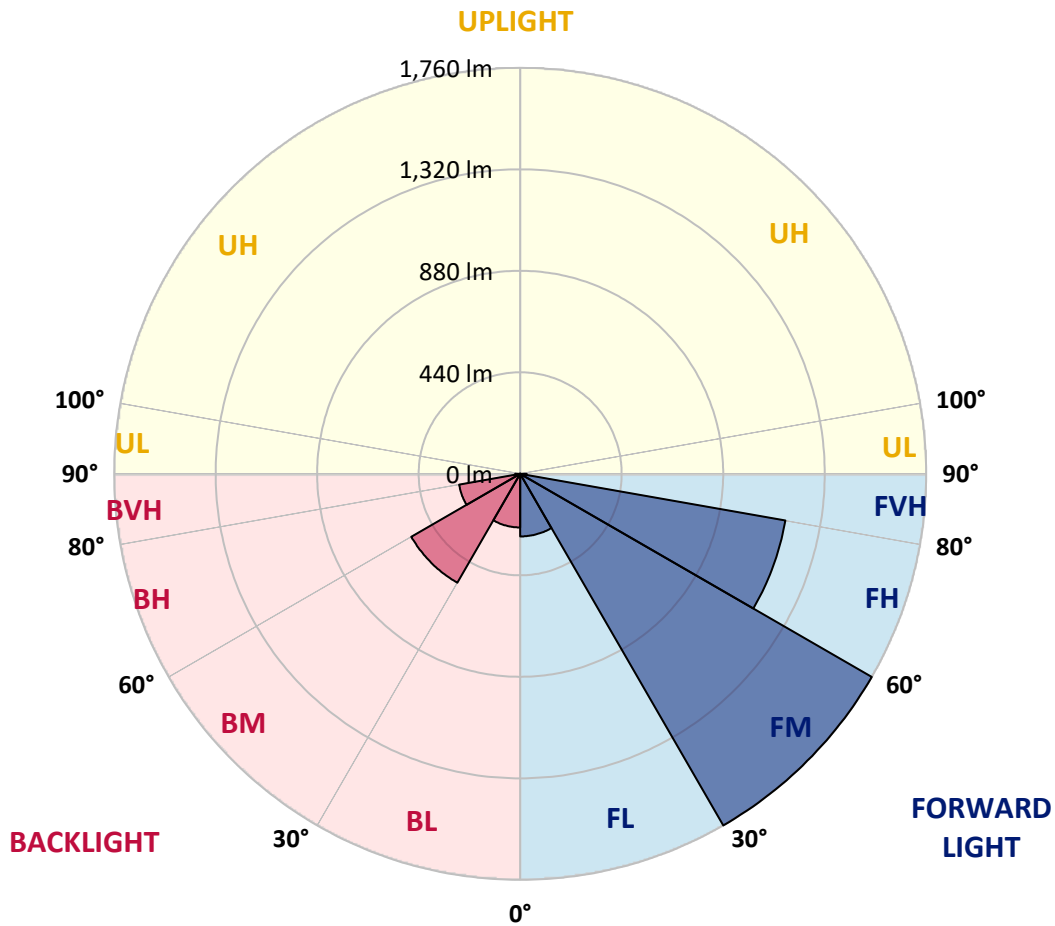
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.4	6.3			
FM (30°-60°)	1760.1	41.0			
FH (60°-80°)	1167.5	27.2			G1/1800
FVH (80°-90°)	28.1	0.7			G1/100
BL (0°-30°)	232.6	5.4	B1/500		
BM (30°-60°)	545.1	12.7	B1/1000		
BH (60°-80°)	268.7	6.3	B1/500		G1/500
BVH (80°-90°)	21.5	0.5			G1/100
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°	65°	66°	75°
0°	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4
2.5°	471.4	474.1	473.4	472.3	472.1	472.5	473.2	473.9	473.7	474.8
5°	470.1	472.8	472.5	472.5	473.4	475.2	476.4	477.5	476.4	477.7
7.5°	471.0	473.0	473.9	474.8	477.0	480.4	483.1	485.6	484.3	485.9
10°	482.5	484.0	484.9	484.9	486.5	490.4	493.1	497.6	496.5	498.9
12.5°	503.5	505.0	505.0	504.1	505.3	507.7	508.6	513.6	511.6	515.6
15°	529.2	532.3	529.9	528.3	528.7	531.2	531.0	534.8	532.8	536.2
17.5°	557.6	561.7	557.6	557.4	556.5	559.2	559.4	562.8	559.2	561.7
20°	591.2	596.9	593.5	594.6	592.6	593.7	594.8	599.8	594.2	596.0
22.5°	638.6	645.4	641.8	646.1	644.7	643.8	643.6	652.4	643.6	644.3
25°	707.7	715.8	709.5	715.3	715.3	718.3	721.7	732.9	718.3	714.0
27.5°	809.7	817.8	805.4	809.0	807.9	815.1	811.5	839.5	823.7	816.7
30°	932.4	946.9	923.4	922.5	921.4	932.9	938.1	956.6	940.6	933.6
32.5°	1065.1	1080.2	1052.3	1044.1	1039.9	1046.8	1042.6	1057.5	1046.4	1035.6
35°	1205.5	1220.4	1193.8	1178.0	1160.8	1146.1	1130.8	1134.6	1124.2	1107.8
37.5°	1338.2	1365.5	1337.3	1320.3	1288.8	1260.1	1217.2	1199.4	1189.7	1174.6
40°	1473.3	1488.9	1467.5	1453.0	1418.7	1373.8	1305.2	1267.5	1254.5	1239.8
42.5°	1572.9	1587.8	1576.2	1566.3	1539.5	1487.3	1398.7	1351.5	1332.5	1316.1
45°	1651.8	1662.9	1655.7	1659.3	1647.8	1597.2	1495.5	1441.5	1421.9	1401.8
47.5°	1683.7	1695.4	1706.9	1728.3	1748.0	1710.7	1599.5	1539.0	1518.3	1497.7
50°	1680.1	1692.0	1725.4	1771.0	1831.9	1819.5	1709.2	1642.8	1623.6	1600.2
52.5°	1651.2	1664.7	1707.6	1783.4	1880.4	1901.0	1820.9	1750.0	1732.0	1704.0
55°	1575.3	1583.5	1647.8	1755.2	1891.9	1957.8	1930.3	1864.2	1846.1	1807.1
57.5°	1434.8	1446.5	1540.1	1679.2	1863.1	1996.4	2026.4	1984.2	1966.9	1910.7
60°	1251.3	1270.0	1377.2	1551.4	1789.5	1996.2	2113.8	2102.3	2087.8	2012.7
62.5°	1043.7	1065.3	1168.5	1370.9	1660.9	1939.6	2168.4	2201.1	2193.7	2106.8
65°	801.6	816.4	919.1	1137.3	1460.7	1817.9	2174.7	2268.6	2269.9	2178.3
67.5°	533.7	576.6	665.7	853.5	1192.6	1619.1	2119.2	2279.6	2292.7	2202.9
70°	260.4	316.8	404.2	554.7	853.5	1314.3	1974.1	2188.9	2218.0	2131.2
72.5°	108.1	126.4	174.0	273.7	489.9	886.9	1682.5	1942.9	1996.9	1888.3
75°	72.9	79.0	99.5	140.4	223.2	437.3	1213.4	1448.7	1535.6	1426.2
77.5°	56.2	60.0	72.4	98.2	132.7	165.4	649.5	873.1	918.0	849.8
80°	44.2	47.2	54.2	71.5	94.1	88.5	221.4	395.6	421.5	353.6
82.5°	38.4	39.5	38.8	48.5	62.5	51.7	72.7	146.0	161.1	116.9
85°	27.8	30.9	32.3	30.0	33.2	26.2	29.8	51.7	56.9	50.8
87.5°	11.3	16.7	20.5	19.4	12.2	7.4	9.3	15.1	17.4	19.0
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°
476.4	0°	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4
476.6	2.5°	476.8	478.4	479.5	480.9	481.8	483.1	485.9	487.4	487.7	488.8
480.2	5°	481.1	483.4	485.9	489.5	493.5	496.9	502.1	505.7	507.1	508.2
489.0	7.5°	490.4	493.5	498.0	504.4	510.2	514.7	521.1	525.3	529.6	531.2
503.0	10°	504.1	508.6	515.2	523.8	530.1	535.9	542.5	546.1	550.4	552.2
519.7	12.5°	521.3	526.0	534.6	546.6	552.4	556.5	558.7	557.8	558.7	560.3
539.8	15°	540.9	546.1	555.8	568.7	572.7	569.1	564.2	559.6	559.0	559.4
564.2	17.5°	564.2	568.0	579.3	590.1	587.2	572.3	561.4	554.2	550.6	549.5
595.3	20°	596.7	596.7	605.9	612.7	593.0	567.8	550.8	539.1	531.7	528.5
637.7	22.5°	636.1	632.5	638.4	633.7	591.9	555.1	531.7	511.3	500.1	495.6
697.1	25°	686.2	682.0	680.4	651.0	583.8	535.0	496.9	472.3	462.4	459.9
782.6	27.5°	761.8	751.0	730.5	660.5	568.9	503.5	456.3	433.5	427.9	428.1
892.5	30°	862.5	840.8	790.5	662.1	544.5	458.8	414.8	398.5	395.8	396.9
984.8	32.5°	955.7	935.1	851.9	654.9	507.1	415.0	377.5	366.7	362.6	364.0
1055.2	35°	1028.8	1023.2	908.7	644.7	461.0	373.9	344.1	334.9	327.0	325.2
1121.5	37.5°	1097.8	1095.6	951.4	630.5	415.4	344.8	317.3	305.1	293.6	287.3
1194.9	40°	1173.7	1171.4	979.4	608.6	375.1	319.5	293.1	277.1	262.9	251.4
1277.9	42.5°	1259.0	1245.7	992.7	577.2	340.7	298.1	273.5	251.8	233.1	222.5
1371.8	45°	1352.2	1322.2	992.5	537.3	311.9	278.5	252.5	221.8	204.4	194.5
1468.2	47.5°	1451.0	1395.3	980.3	493.1	283.9	256.8	220.0	196.6	185.0	178.9
1572.9	50°	1553.0	1463.6	959.5	442.3	255.2	232.2	199.7	183.7	174.9	169.2
1676.7	52.5°	1648.9	1525.7	934.5	384.8	226.1	208.3	190.7	178.3	169.0	162.7
1777.3	55°	1738.0	1579.2	899.0	325.9	202.4	192.3	186.4	176.0	165.4	158.0
1879.5	57.5°	1817.3	1613.9	837.9	270.6	185.5	181.2	181.9	172.2	160.0	153.7
1980.2	60°	1883.1	1639.4	747.4	219.3	171.7	170.4	174.9	165.0	150.7	143.5
2065.3	62.5°	1922.6	1639.0	636.4	179.6	160.0	160.4	165.6	155.9	141.5	134.7
2109.7	65°	1919.3	1598.8	514.5	153.7	148.7	149.2	155.9	146.0	133.8	129.8
2087.4	67.5°	1851.3	1500.9	394.7	136.8	136.3	138.3	146.2	139.2	129.1	128.6
1954.2	70°	1667.4	1297.6	284.3	123.2	123.4	126.4	136.8	134.9	126.6	127.5
1643.0	72.5°	1337.0	989.3	190.9	109.0	109.2	114.0	127.7	131.6	124.1	136.1
1165.8	75°	890.5	617.0	122.8	93.9	94.1	100.2	119.8	125.0	117.3	135.6
606.6	77.5°	427.9	277.3	88.9	79.0	79.0	84.6	103.6	111.9	100.0	105.4
195.0	80°	147.8	104.3	70.0	63.6	62.3	66.1	87.3	97.0	86.2	79.4
63.6	82.5°	58.2	54.2	56.2	49.4	44.9	47.4	67.9	80.1	63.4	57.3
35.9	85°	33.4	35.2	39.7	32.7	26.0	29.1	49.9	57.5	47.8	42.2
11.7	87.5°	9.0	12.4	18.3	16.9	11.7	12.4	23.7	31.8	27.5	21.2
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>
476.4
488.6
508.0
531.4
553.1
560.8
561.0
551.1
527.8
494.9
460.4
428.8
400.8
365.8
326.5
287.5
252.5
223.2
194.1
177.6
167.2
160.0
155.0
149.6
140.4
132.7
129.5
129.3
127.3
137.9
136.8
96.6
74.5
57.1
43.1
21.9
0.0

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