

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: P938829

Luminaire Tested: **GALN-SB1A-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

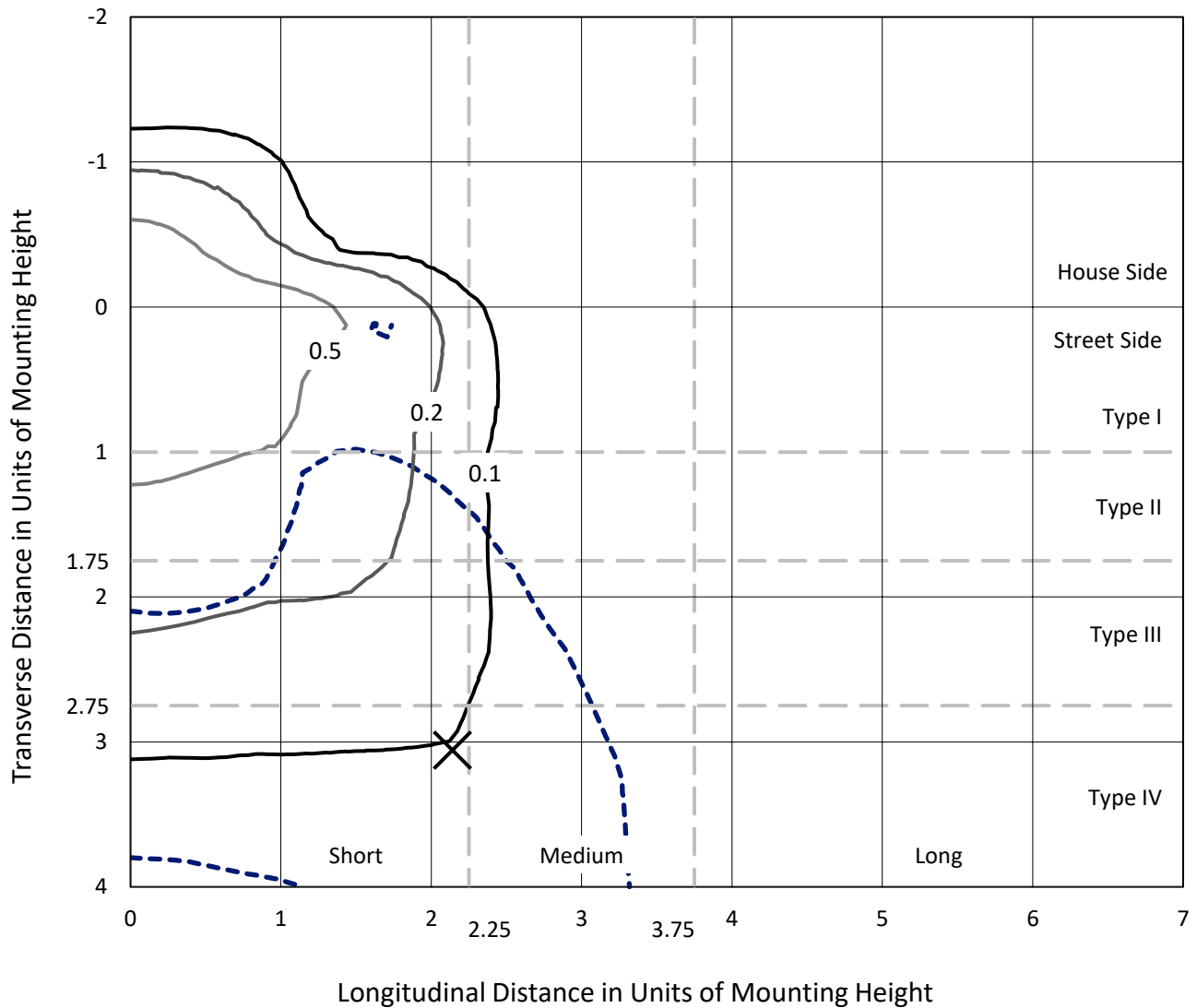
Lumens per Lamp: N/A  
Luminaire Lumens: 4242 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

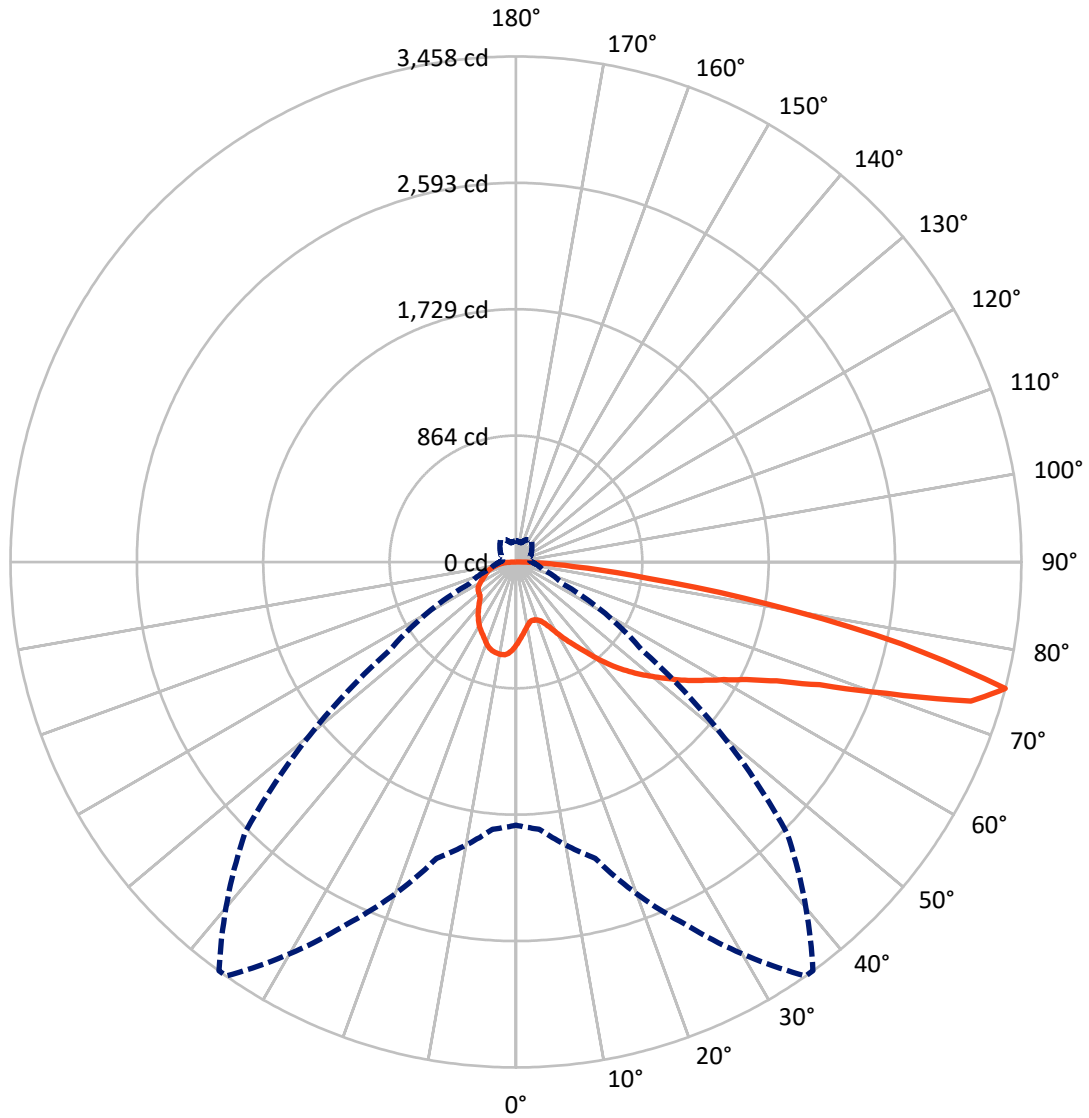
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1009.5	0.0	1009.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3232.5	0.0	3232.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4242.0	0.0	4242.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	154.4	3.6
20°-30°	259.2	6.1
30°-40°	402.9	9.5
40°-50°	598.0	14.1
50°-60°	825.6	19.5
60°-70°	1001.6	23.6
70°-80°	827.8	19.5
80°-90°	119.1	2.8
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°	4242.0	100.0
0°-180°	4242.0	100.0

**Coefficient of Utilization**



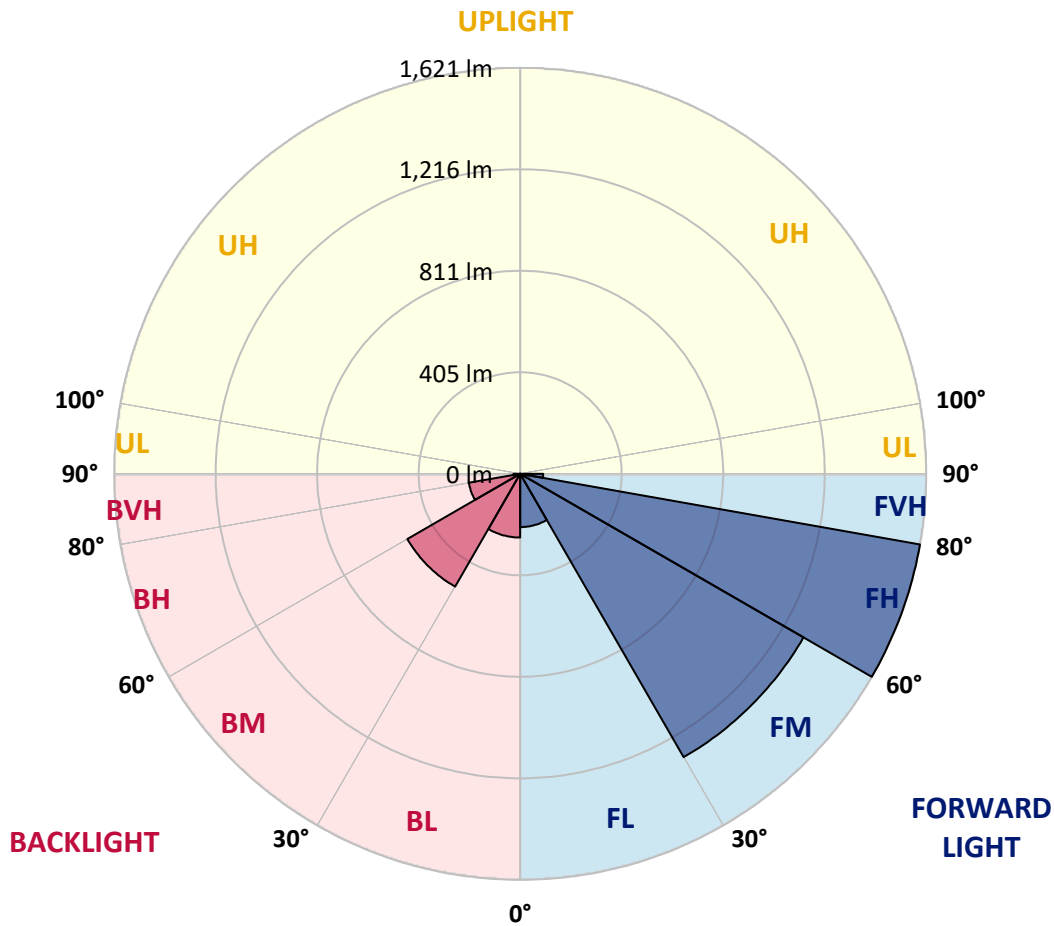
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.7	5.0			
FM (30°-60°)	1306.3	30.8			
FH (60°-80°)	1621.2	38.2			G1/1800
FVH (80°-90°)	92.2	2.2			G1/100
BL (0°-30°)	254.4	6.0	B1/500		
BM (30°-60°)	520.2	12.3	B1/1000		
BH (60°-80°)	208.1	4.9	B1/500		G1/500
BVH (80°-90°)	26.8	0.6			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	521.2	524.5	525.8	525.1	528.6	528.1	532.9	538.9	547.2	555.2
5°	481.1	484.6	487.5	490.3	496.9	499.0	506.6	518.0	533.2	548.5
7.5°	443.7	446.7	451.3	456.3	467.6	469.6	482.3	500.1	521.2	543.7
10°	413.2	416.2	421.0	426.8	440.8	443.3	459.3	483.2	510.7	539.1
12.5°	400.2	401.1	403.8	409.6	421.7	423.3	441.0	468.3	500.4	535.7
15°	399.5	401.3	401.5	404.5	414.6	415.3	431.6	458.6	494.0	535.0
17.5°	406.4	407.7	405.7	407.5	416.0	417.1	430.0	454.1	491.9	538.0
20°	424.7	425.8	419.7	417.1	423.3	424.2	436.9	457.0	494.0	544.2
22.5°	463.7	464.4	449.2	438.9	439.4	439.8	450.8	469.2	502.0	555.4
25°	524.5	524.0	499.9	480.0	468.5	466.0	473.3	488.9	515.5	570.3
27.5°	595.5	592.1	568.0	538.2	513.2	509.6	507.9	514.6	534.8	590.0
30°	675.8	672.6	646.7	607.7	573.1	567.1	552.0	548.5	563.4	616.9
32.5°	763.9	761.8	730.8	683.6	637.3	630.4	604.9	595.8	607.5	657.5
35°	837.7	835.9	810.2	761.6	704.9	696.4	670.5	660.2	666.2	709.5
37.5°	904.4	903.5	881.5	843.2	784.7	774.4	745.3	741.9	740.7	778.1
40°	966.4	964.1	941.1	921.0	877.6	868.2	842.5	839.5	830.8	862.5
42.5°	1034.9	1029.0	995.7	986.3	974.6	966.8	951.5	951.9	932.6	957.6
45°	1090.9	1087.4	1053.3	1047.8	1060.4	1057.2	1070.5	1073.9	1036.5	1057.4
47.5°	1151.0	1147.7	1118.9	1115.0	1149.1	1150.0	1197.1	1198.2	1137.9	1161.1
50°	1225.0	1220.4	1191.8	1196.6	1234.9	1238.3	1324.3	1316.5	1231.2	1266.3
52.5°	1273.9	1276.6	1270.4	1278.2	1330.5	1333.7	1449.5	1429.6	1323.6	1370.2
55°	1309.9	1315.4	1334.6	1352.5	1431.4	1434.6	1567.6	1537.1	1400.2	1466.5
57.5°	1356.2	1348.4	1384.4	1419.3	1527.3	1535.8	1682.5	1640.8	1468.1	1549.5
60°	1422.7	1417.2	1445.2	1496.8	1634.6	1648.1	1804.1	1734.1	1517.9	1615.3
62.5°	1557.5	1543.8	1548.1	1593.8	1769.9	1787.8	1941.2	1815.5	1542.6	1641.0
65°	1759.1	1735.5	1713.5	1745.1	1960.5	1978.1	2096.0	1879.5	1533.5	1591.3
67.5°	2013.0	1989.6	1962.5	1992.3	2241.1	2255.1	2287.0	1915.5	1461.2	1399.5
70°	2222.3	2213.6	2246.0	2368.7	2689.5	2689.9	2531.9	1885.7	1263.3	992.3
72.5°	2194.6	2189.3	2359.7	2739.0	3254.5	3242.4	2763.8	1660.1	851.0	447.6
75°	1800.4	1834.6	2098.5	2732.4	3457.5	3455.9	2621.8	1055.3	352.0	185.5
77.5°	965.4	1019.6	1362.4	2017.3	2699.1	2739.7	1843.3	369.2	151.1	118.8
80°	314.9	362.1	543.0	1027.1	1753.8	1746.3	790.0	144.9	103.4	84.2
82.5°	133.7	139.2	242.6	485.0	900.1	886.1	251.6	83.2	72.7	57.6
85°	52.3	58.5	107.1	224.3	389.8	381.4	90.8	41.3	46.6	37.6
87.5°	17.2	20.9	38.3	76.8	121.3	117.0	22.2	14.2	20.2	17.2
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°
565.3	0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
566.9	2.5°	570.1	573.8	578.1	584.5	590.0	594.6	599.4	602.4	603.6	607.0
567.8	5°	574.2	582.2	593.0	603.6	613.9	620.1	625.6	628.3	630.9	632.7
570.3	7.5°	581.1	591.4	608.4	622.1	630.9	635.9	639.6	638.7	639.6	640.0
573.1	10°	587.1	601.5	621.7	634.8	641.4	641.6	640.7	637.5	635.9	636.1
577.2	12.5°	594.2	610.2	632.0	643.0	644.8	639.8	635.9	630.4	628.3	627.4
583.4	15°	603.8	622.1	643.2	647.4	642.8	636.4	629.7	620.8	616.2	612.5
593.9	17.5°	615.5	635.7	652.0	649.0	639.1	628.6	617.8	604.3	594.9	591.0
608.4	20°	631.8	649.9	658.6	645.5	630.6	614.6	596.2	579.7	571.0	567.1
626.7	22.5°	651.5	668.9	665.0	639.6	618.5	592.8	569.9	557.7	553.4	550.6
650.4	25°	675.1	690.0	669.6	630.9	598.5	563.9	546.2	542.3	540.3	538.2
679.2	27.5°	705.8	713.9	673.1	618.0	567.3	533.2	526.7	527.4	526.7	523.3
719.4	30°	746.4	744.8	676.3	597.2	531.6	505.4	505.9	508.9	509.3	507.0
775.3	32.5°	799.9	783.6	677.9	570.1	497.4	481.1	481.6	484.8	487.1	483.2
848.5	35°	864.5	828.8	675.3	536.2	471.0	458.0	454.5	455.4	456.1	452.4
937.2	37.5°	940.0	879.4	664.1	498.5	449.2	435.3	427.9	421.7	418.1	414.6
1037.7	40°	1022.8	934.7	643.5	461.9	424.9	411.2	400.2	388.5	376.1	371.5
1144.1	42.5°	1109.5	991.6	618.5	426.8	397.0	385.7	374.0	357.1	338.5	329.1
1254.6	45°	1199.3	1049.8	593.9	392.1	368.3	363.5	349.9	329.5	309.4	297.4
1365.4	47.5°	1287.4	1104.9	557.9	357.3	341.5	346.7	336.2	317.4	294.9	276.1
1475.2	50°	1371.6	1156.5	499.0	322.0	319.7	341.7	331.6	304.5	278.9	254.8
1583.0	52.5°	1455.0	1198.2	423.6	289.9	308.0	340.3	325.6	295.8	264.4	239.2
1684.4	55°	1525.9	1219.8	350.9	262.3	291.0	328.6	318.5	285.5	244.0	217.2
1753.8	57.5°	1566.3	1202.3	290.3	235.3	267.6	309.4	306.4	263.5	219.7	199.1
1767.4	60°	1548.8	1131.7	240.8	211.7	245.4	288.5	285.3	241.7	201.1	181.6
1694.9	62.5°	1452.7	997.1	201.6	191.0	225.2	267.2	264.2	225.0	186.9	168.1
1502.5	65°	1259.2	811.1	171.1	173.8	204.8	241.5	245.8	211.0	175.7	157.3
1162.4	67.5°	960.4	587.5	147.2	158.9	184.8	216.2	228.9	200.9	166.3	148.8
672.6	70°	547.4	333.7	127.0	144.5	167.2	192.9	215.8	192.9	156.2	141.7
252.0	72.5°	207.5	153.2	109.8	130.0	150.2	173.1	201.3	180.2	144.5	133.7
130.3	75°	110.8	93.3	92.4	113.1	130.7	153.9	183.2	167.9	135.8	141.3
90.1	77.5°	75.4	66.0	77.3	96.8	109.4	132.5	164.0	149.1	117.6	117.2
62.4	80°	52.3	46.8	62.8	78.0	84.6	111.4	143.1	128.0	95.9	89.4
38.5	82.5°	31.4	30.5	47.0	58.2	59.9	86.0	118.6	107.3	78.4	68.3
22.9	85°	17.2	18.1	30.0	34.2	34.9	60.1	92.9	83.0	60.3	50.7
8.3	87.5°	4.8	6.2	11.0	13.5	16.7	31.2	55.3	49.3	30.3	21.1
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>
565.3
606.8
633.2
640.7
636.6
627.0
613.7
591.2
566.7
551.1
538.2
524.0
508.2
485.0
455.0
416.9
373.6
330.2
296.5
274.0
252.7
236.4
214.9
196.3
178.9
165.1
154.3
146.1
139.9
131.9
<i>145.8</i>
108.0
85.5
68.8
51.1
21.1
0.0

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