

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: P945405

Luminaire Tested: **GALN-SB1B-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5266 lumens
Efficiency: N/A
Efficacy: 132.3 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

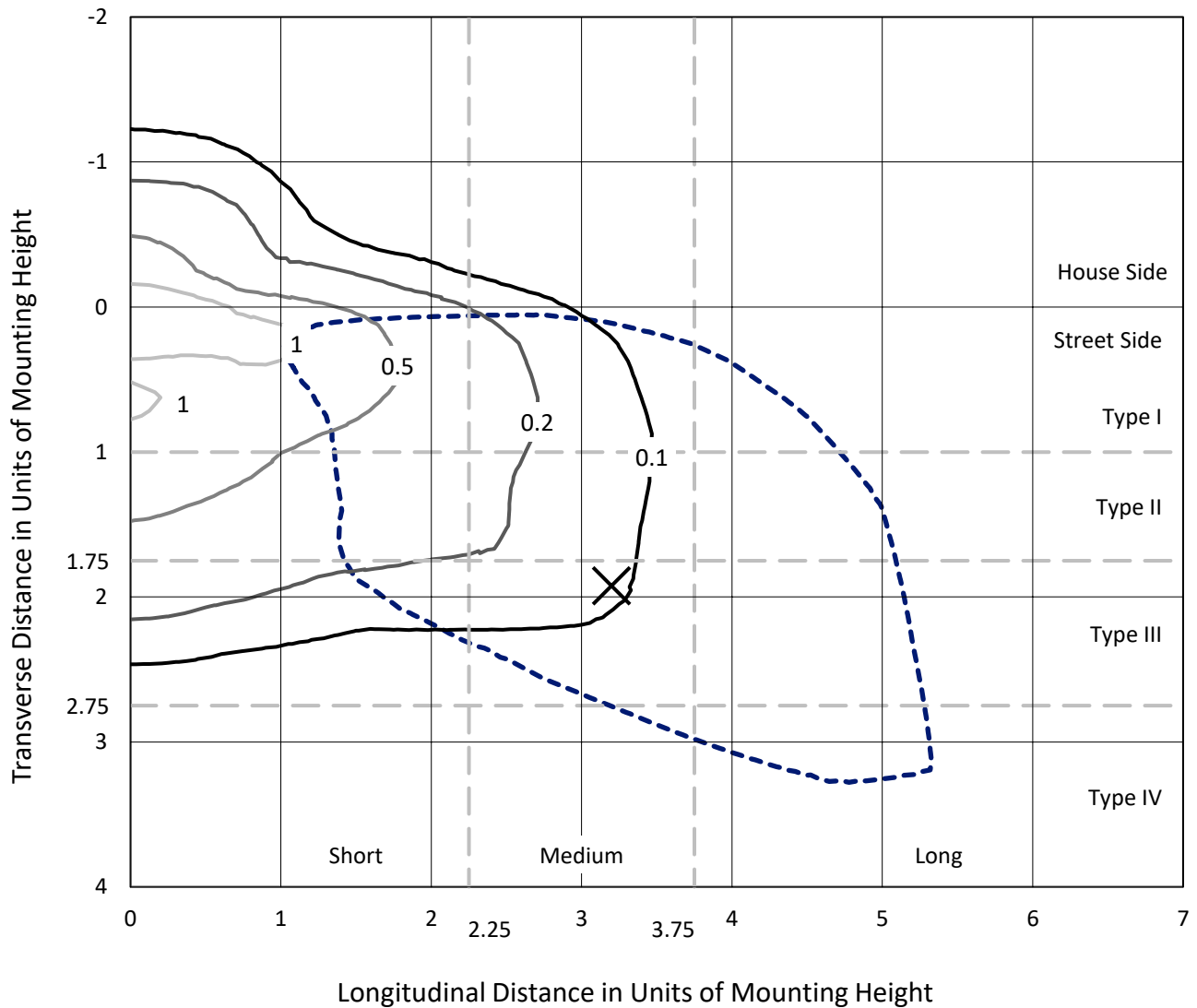
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

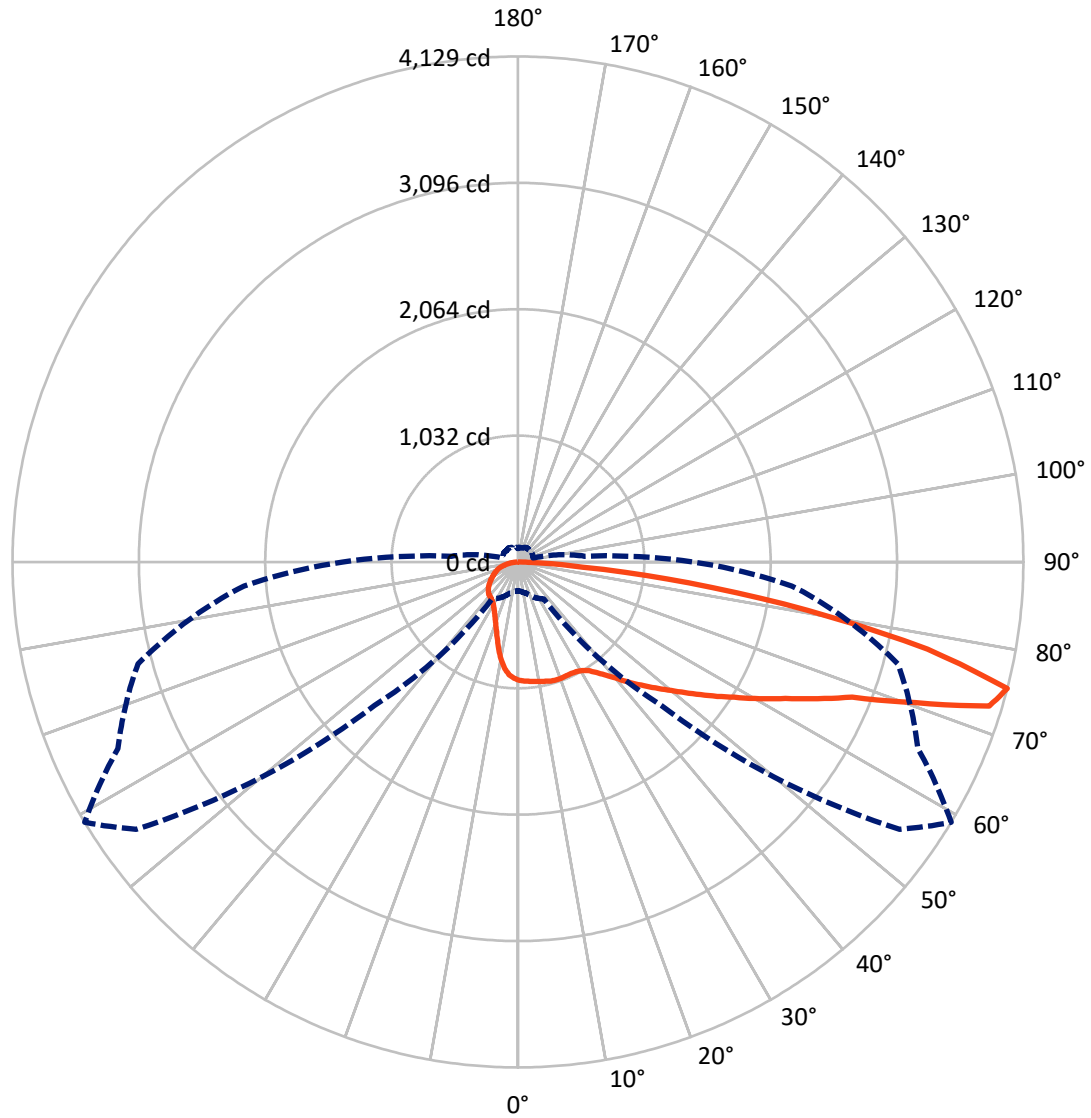
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.7	0.0	987.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4278.3	0.0	4278.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	5266.0	0.0	5266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.6
10°-20°	221.5	4.2
20°-30°	336.5	6.4
30°-40°	500.2	9.5
40°-50°	743.8	14.1
50°-60°	1009.7	19.2
60°-70°	1232.7	23.4
70°-80°	967.4	18.4
80°-90°	167.6	3.2
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°	5266.0	100.0
0°-180°	5266.0	100.0

Coefficient of Utilization



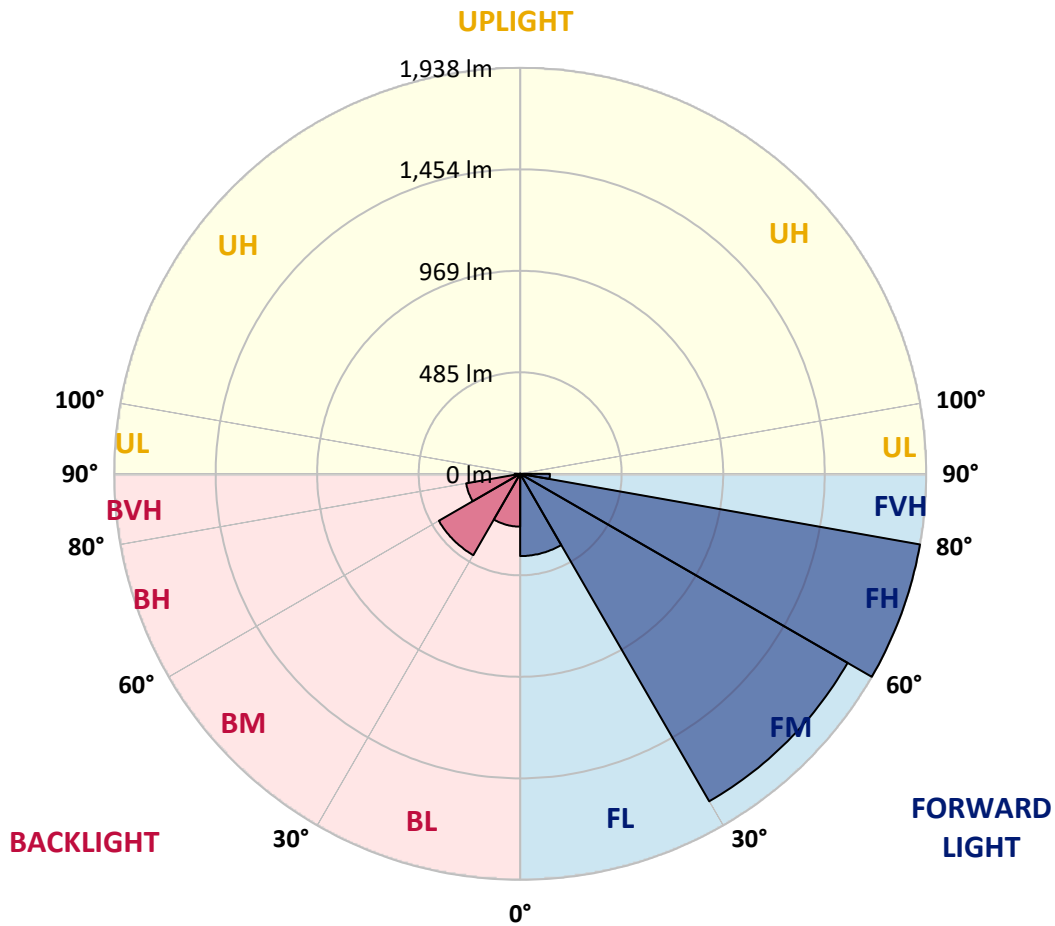
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.6	7.5			
FM (30°-60°)	1805.4	34.3			
FH (60°-80°)	1938.4	36.8			G2/5000
FVH (80°-90°)	141.9	2.7			G2/225
BL (0°-30°)	252.0	4.8	B1/500		
BM (30°-60°)	448.3	8.5	B1/1000		
BH (60°-80°)	261.7	5.0	B1/500		G1/500
BVH (80°-90°)	25.7	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	974.8	971.4	974.8	973.4	972.8	971.7	971.9	973.9	972.8	974.2
5°	968.3	966.3	969.7	968.8	972.5	973.1	976.8	979.0	980.4	980.7
7.5°	957.5	955.5	960.3	964.3	972.2	974.5	982.1	985.8	987.8	991.2
10°	918.1	917.3	929.2	944.2	962.9	974.5	986.1	992.3	995.5	1004.5
12.5°	848.4	849.6	865.1	894.0	931.4	968.8	990.6	999.7	1004.5	1015.9
15°	781.9	781.6	798.6	829.5	881.9	943.9	992.9	1008.5	1016.7	1033.4
17.5°	743.3	742.2	754.1	777.6	826.3	905.7	987.2	1013.3	1030.9	1051.8
20°	736.3	734.0	740.2	751.8	786.4	863.7	972.5	1013.3	1042.2	1069.4
22.5°	762.0	758.3	755.8	754.4	769.7	829.2	955.8	1009.9	1058.9	1094.6
25°	813.9	808.2	795.2	782.4	777.9	813.6	941.1	1009.1	1083.8	1128.6
27.5°	897.7	890.6	864.3	833.7	806.2	821.5	934.6	1014.2	1111.3	1164.6
30°	1001.7	994.0	960.9	913.9	864.6	851.0	942.8	1029.2	1146.4	1212.5
32.5°	1094.9	1086.4	1058.1	1010.2	943.6	902.0	968.8	1057.8	1201.7	1279.0
35°	1177.6	1167.7	1142.2	1098.0	1040.5	973.6	1015.9	1108.5	1280.2	1387.2
37.5°	1258.6	1247.0	1219.3	1172.5	1132.3	1069.1	1080.7	1173.6	1384.4	1518.7
40°	1349.3	1332.6	1298.9	1252.7	1213.6	1181.0	1166.0	1253.5	1490.4	1665.4
42.5°	1437.1	1421.2	1381.0	1341.6	1292.6	1283.3	1264.9	1347.0	1606.2	1826.6
45°	1531.7	1512.7	1464.0	1414.2	1383.3	1351.3	1360.6	1440.5	1719.8	1990.9
47.5°	1620.4	1599.1	1541.6	1486.1	1469.1	1408.5	1448.4	1543.3	1837.9	2157.5
50°	1668.3	1647.3	1599.4	1549.3	1536.0	1479.0	1543.6	1656.4	1961.7	2323.5
52.5°	1708.2	1685.5	1622.9	1595.2	1591.2	1555.8	1660.9	1785.5	2085.5	2470.2
55°	1750.7	1725.5	1645.6	1620.7	1638.8	1641.9	1800.0	1932.0	2216.4	2613.3
57.5°	1799.7	1767.7	1667.4	1642.2	1685.3	1742.8	1959.8	2083.8	2345.0	2745.9
60°	1845.9	1813.6	1709.3	1676.5	1735.4	1859.8	2143.0	2267.7	2490.6	2864.0
62.5°	1854.9	1828.3	1742.8	1742.5	1803.4	1996.3	2360.0	2453.2	2617.8	2980.7
65°	1698.0	1681.3	1630.6	1739.9	1900.8	2192.9	2601.7	2690.6	2779.6	3082.7
67.5°	1292.3	1294.6	1290.9	1502.0	1822.1	2475.3	2951.5	2944.7	2979.3	3197.1
70°	590.9	604.2	690.9	1036.8	1459.8	2507.9	3530.0	3441.9	3230.0	3345.3
72.5°	319.3	329.5	364.9	502.3	877.6	2229.7	3962.3	4024.9	3563.4	3445.0
75°	234.3	239.9	264.6	319.3	368.6	1657.2	3807.3	4128.6	3605.1	3212.4
77.5°	175.4	177.9	198.0	253.0	188.7	873.6	3042.2	3419.2	3086.1	2639.4
80°	127.2	130.0	145.0	189.8	132.3	319.5	2088.9	2400.0	2113.6	1682.4
82.5°	87.8	89.0	95.5	129.2	92.4	124.1	1185.3	1407.4	1179.9	590.4
85°	53.0	54.4	57.2	75.4	52.4	58.9	511.6	529.2	352.7	141.1
87.5°	21.8	23.2	25.5	31.7	20.7	16.4	84.4	105.9	66.0	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945405
 CATALOG NUMBER: GALN-SB1B-840-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
966.6	0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
969.4	2.5°	968.0	966.0	960.6	953.2	946.4	938.0	934.3	931.2	928.3	922.9
977.0	5°	973.9	968.5	954.1	935.4	914.2	890.9	868.3	852.7	839.4	829.5
985.8	7.5°	983.0	972.8	946.4	908.2	859.5	809.6	764.6	732.6	708.5	699.7
998.3	10°	992.3	980.2	934.3	866.8	782.7	705.9	646.2	613.3	594.0	587.8
1013.0	12.5°	1003.4	985.5	915.3	809.3	696.9	612.7	560.6	541.4	531.4	528.0
1031.2	15°	1019.5	990.1	886.7	737.4	615.0	544.8	511.0	497.7	492.6	492.3
1049.8	17.5°	1031.7	990.9	842.2	660.3	552.1	503.7	475.9	470.8	474.2	479.3
1068.3	20°	1045.3	983.3	783.8	590.1	507.9	467.7	456.1	459.5	467.7	475.1
1092.6	22.5°	1054.9	969.4	713.3	535.4	469.7	447.0	446.5	453.5	458.1	461.8
1121.2	25°	1063.4	945.9	638.5	489.5	438.2	434.6	440.8	438.5	435.4	438.5
1149.8	27.5°	1069.7	908.8	571.7	449.3	416.1	426.1	422.4	417.3	417.0	418.7
1183.6	30°	1067.7	859.2	516.7	411.0	400.6	410.2	401.4	400.6	399.7	400.6
1234.3	32.5°	1067.7	802.8	474.5	384.7	390.6	387.0	386.1	384.1	380.7	380.4
1303.1	35°	1073.6	746.5	438.2	370.5	382.4	373.7	374.2	369.4	362.3	358.9
1394.3	37.5°	1085.8	701.1	402.3	363.7	368.0	367.7	365.4	357.2	344.8	334.0
1508.2	40°	1115.3	687.8	377.6	360.6	361.2	364.6	358.6	342.8	314.4	296.9
1623.8	42.5°	1161.5	710.2	372.2	353.0	356.7	360.1	348.4	311.6	291.5	281.0
1745.0	45°	1220.1	749.3	383.8	341.9	345.9	351.8	317.3	299.7	290.6	290.9
1865.1	47.5°	1294.3	790.4	405.4	332.3	330.3	333.7	296.6	285.8	273.4	276.5
1980.4	50°	1380.2	832.0	425.8	319.3	313.0	302.0	283.3	273.1	257.2	249.9
2091.8	52.5°	1473.1	872.2	434.0	303.4	294.3	281.6	274.2	261.8	242.5	230.3
2196.9	55°	1561.2	908.8	424.9	284.4	275.6	265.7	264.6	256.9	236.3	219.3
2290.3	57.5°	1644.5	939.4	402.3	265.2	256.7	250.7	258.4	254.7	228.6	206.8
2378.7	60°	1715.0	960.3	369.4	245.6	239.7	236.5	248.2	247.0	217.8	193.5
2458.0	62.5°	1771.1	968.5	333.1	226.9	225.5	219.8	234.0	234.0	204.2	180.5
2527.7	65°	1815.0	960.6	296.3	208.5	211.3	202.8	216.7	215.0	189.8	168.8
2607.9	67.5°	1853.8	934.6	255.5	190.4	196.9	186.1	198.6	194.6	173.9	157.2
2677.3	70°	1871.1	873.9	209.1	172.2	180.2	169.7	180.5	173.1	156.1	144.8
2601.1	72.5°	1732.3	726.3	164.6	153.3	160.1	151.6	160.9	152.4	136.8	131.7
2246.2	75°	1433.1	545.0	126.6	132.6	137.7	131.2	137.4	131.2	117.0	120.7
1659.2	77.5°	1040.8	368.0	96.9	110.8	113.0	109.6	115.0	107.9	95.2	94.3
826.9	80°	517.6	215.6	75.9	87.5	86.7	84.4	90.7	87.3	76.5	81.0
223.2	82.5°	149.9	92.4	55.2	61.5	59.8	60.3	64.9	66.6	99.7	98.9
69.4	85°	47.0	36.3	33.1	34.3	32.6	33.4	38.2	75.9	70.3	41.1
21.5	87.5°	12.2	12.5	8.2	8.8	9.1	10.8	12.2	46.2	22.1	14.4
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>
966.6
920.4
821.2
684.4
578.2
528.9
493.5
481.3
477.6
463.7
440.5
421.5
403.7
384.1
362.3
337.7
299.1
281.0
292.3
284.4
251.8
230.0
219.3
205.7
192.6
179.6
167.7
156.1
142.5
127.5
<i>110.2</i>
90.1
80.2
101.1
44.5
15.3
0.0

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