

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: P945361

Luminaire Tested: **GALN-SB1B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5031 lumens
Efficiency: N/A
Efficacy: 126.4 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

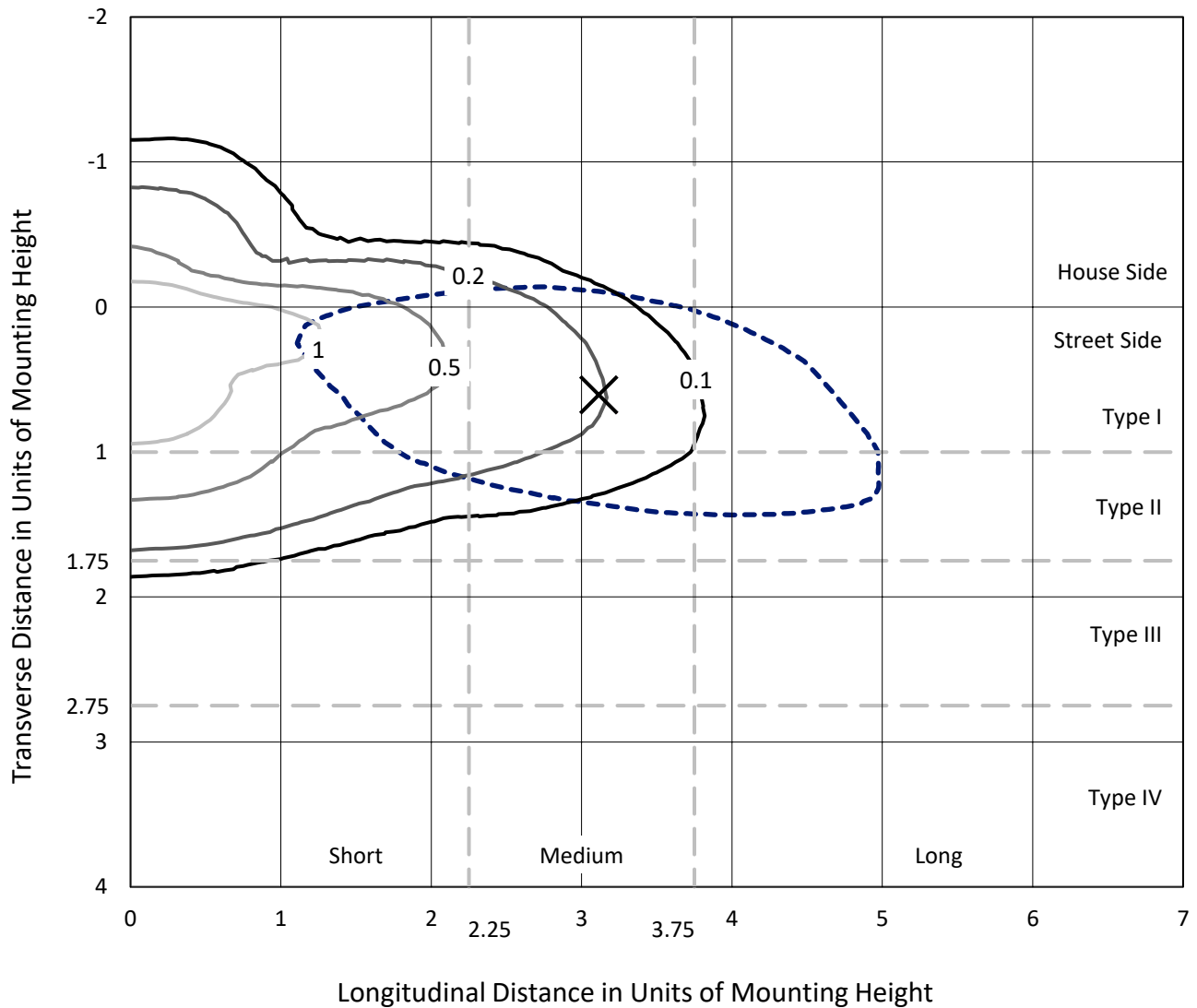
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

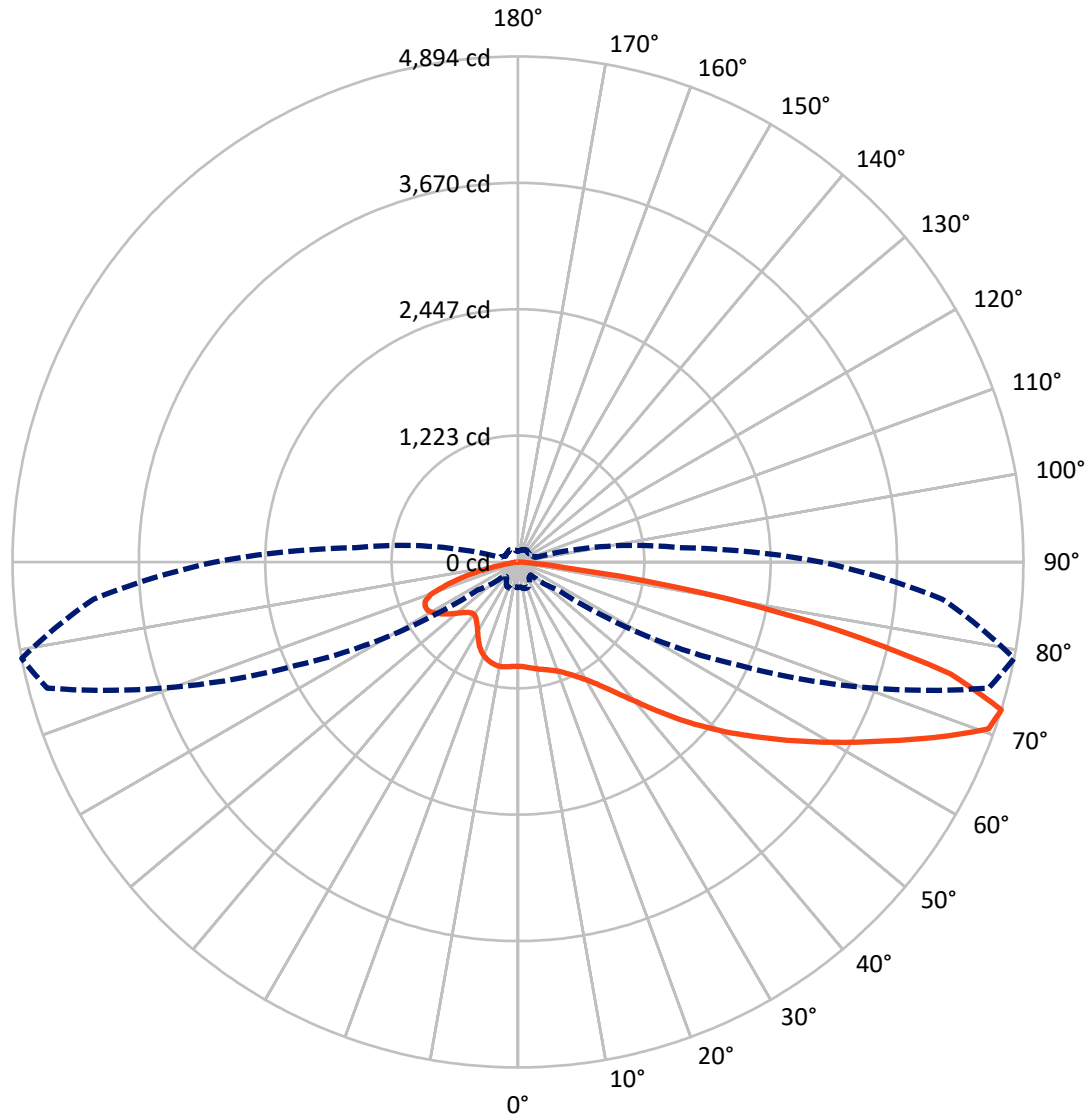
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.1	0.0	1107.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3923.9	0.0	3923.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	5031.0	0.0	5031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.8
10°-20°	239.7	4.8
20°-30°	386.7	7.7
30°-40°	580.4	11.5
40°-50°	823.4	16.4
50°-60°	1039.8	20.7
60°-70°	1056.1	21.0
70°-80°	719.8	14.3
80°-90°	93.4	1.9
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°	5031.0	100.0
0°-180°	5031.0	100.0

Coefficient of Utilization

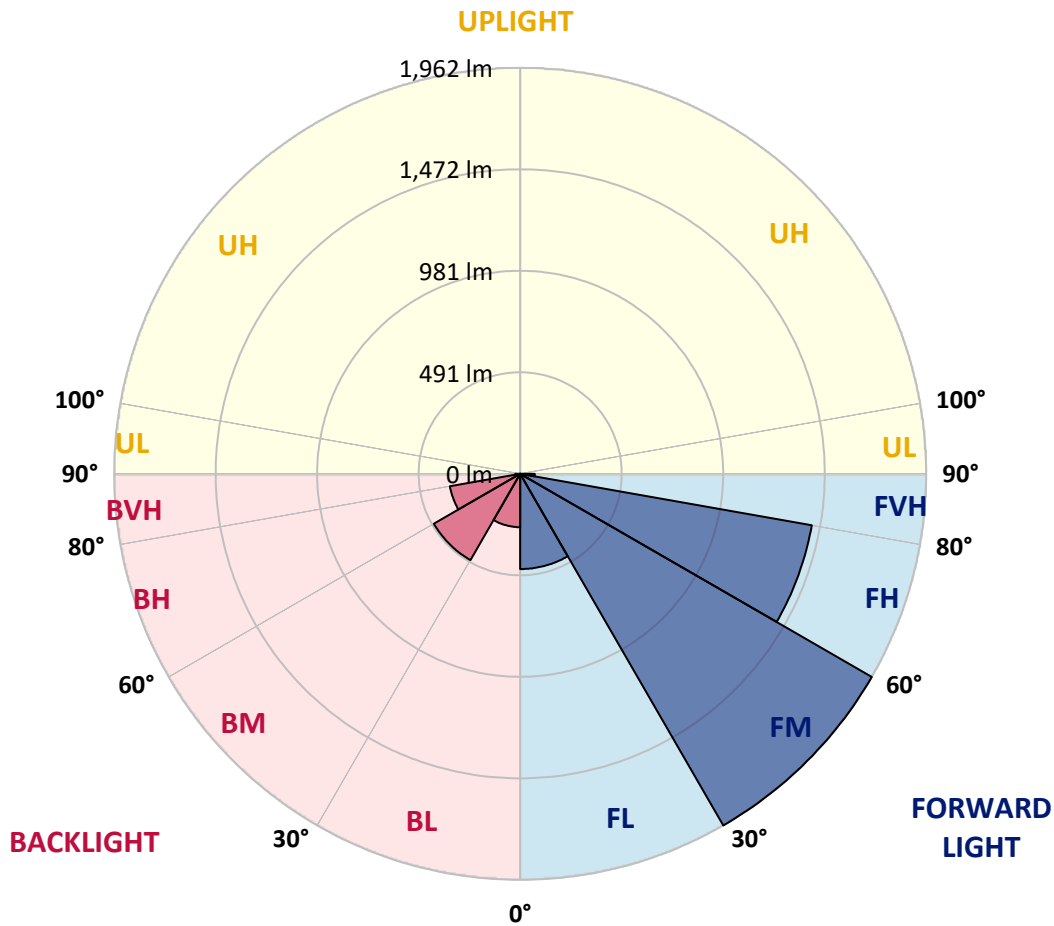


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.2	9.1			
FM (30°-60°)	1962.2	39.0			
FH (60°-80°)	1431.1	28.4			G1/1800
FVH (80°-90°)	70.3	1.4			G1/100
BL (0°-30°)	257.9	5.1	B1/500		
BM (30°-60°)	481.5	9.6	B1/1000		
BH (60°-80°)	344.7	6.9	B1/500		G1/500
BVH (80°-90°)	23.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9
2.5°	1010.5	1005.7	1008.6	1007.5	1008.9	1010.5	1011.0	1011.8	1014.4	1014.2
5°	1008.3	1003.5	1007.5	1006.2	1009.7	1013.4	1016.6	1019.5	1023.8	1025.6
7.5°	1003.8	1000.6	1004.6	1008.6	1015.0	1020.6	1025.1	1031.7	1037.9	1038.9
10°	977.5	975.1	984.4	994.8	1012.3	1027.5	1037.3	1045.1	1051.7	1052.8
12.5°	950.0	947.1	957.5	971.6	1000.1	1027.5	1048.2	1058.4	1064.2	1067.7
15°	945.5	943.1	949.0	961.2	984.9	1020.3	1055.7	1074.3	1079.4	1083.4
17.5°	967.3	962.8	965.2	969.5	983.3	1013.7	1061.6	1092.4	1100.1	1104.4
20°	1017.9	1011.5	1007.8	999.3	996.9	1014.7	1061.0	1114.2	1124.4	1129.7
22.5°	1085.2	1081.0	1073.0	1051.4	1028.0	1027.8	1071.1	1142.2	1161.1	1166.1
25°	1166.7	1160.3	1150.2	1120.9	1075.9	1053.6	1088.2	1177.8	1209.5	1210.8
27.5°	1260.3	1250.8	1236.9	1198.3	1137.7	1094.0	1114.2	1218.8	1265.1	1264.6
30°	1359.1	1349.5	1334.9	1288.0	1211.6	1148.6	1150.4	1263.0	1331.1	1328.2
32.5°	1431.2	1424.0	1421.1	1384.9	1296.8	1213.0	1192.0	1312.0	1412.6	1409.9
35°	1486.5	1477.2	1480.7	1462.3	1389.7	1285.1	1242.8	1370.3	1511.6	1511.3
37.5°	1541.4	1533.1	1536.0	1523.8	1475.6	1376.6	1304.8	1441.6	1634.2	1640.1
40°	1591.4	1582.6	1594.3	1582.9	1542.4	1474.0	1375.3	1522.2	1776.4	1787.5
42.5°	1621.5	1614.6	1634.0	1634.2	1600.4	1556.3	1452.7	1611.1	1940.8	1965.8
45°	1631.8	1629.5	1658.7	1664.8	1651.8	1603.9	1522.5	1708.0	2118.0	2162.8
47.5°	1620.7	1616.1	1656.6	1679.2	1689.6	1626.3	1580.2	1812.8	2299.0	2364.5
50°	1564.3	1555.5	1615.6	1663.3	1700.2	1640.9	1638.5	1933.9	2504.7	2576.3
52.5°	1462.9	1456.2	1524.6	1607.4	1676.8	1648.1	1704.0	2066.2	2700.1	2792.7
55°	1333.3	1324.5	1399.8	1507.8	1618.5	1645.7	1769.4	2214.1	2930.5	3024.5
57.5°	1127.8	1110.3	1205.5	1333.3	1523.5	1642.8	1837.6	2361.3	3164.7	3277.3
60°	828.2	802.1	918.9	1070.3	1337.8	1614.3	1921.9	2526.3	3445.7	3547.1
62.5°	482.2	467.0	543.4	684.7	1008.3	1446.6	1969.3	2718.1	3722.0	3828.4
65°	374.4	370.2	376.8	387.7	561.2	1083.1	1823.2	2905.2	4073.2	4147.7
67.5°	342.5	339.3	342.2	321.7	284.7	603.3	1442.4	2952.6	4449.5	4494.8
70°	304.4	300.7	310.3	292.7	224.1	274.4	932.0	2780.7	4748.9	4833.8
72.5°	248.0	243.8	266.1	258.1	188.7	176.2	468.1	2372.2	4717.5	4893.7
75°	190.5	188.1	214.8	221.4	153.8	138.6	224.6	1763.3	4151.5	4329.0
77.5°	148.0	146.1	159.7	183.9	124.0	107.5	138.1	1118.5	3128.5	3159.6
80°	111.0	105.6	118.2	142.4	96.6	78.5	93.7	652.3	1977.5	1792.6
82.5°	69.5	66.8	77.2	95.0	68.1	54.0	60.9	360.3	792.5	466.8
85°	39.7	38.6	42.0	54.3	37.0	31.1	34.9	159.1	144.8	99.5
87.5°	16.0	15.4	19.2	24.2	13.6	11.4	12.2	38.3	31.9	29.5
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°
1009.9	0°	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9
1013.9	2.5°	1012.9	1012.9	1009.1	1003.3	996.6	992.4	985.4	983.6	976.4	974.3
1023.0	5°	1025.1	1023.0	1011.5	995.0	972.4	951.6	928.8	914.4	894.2	887.0
1040.8	7.5°	1040.5	1034.7	1015.0	978.8	931.4	884.8	836.4	799.7	764.6	752.1
1055.4	10°	1054.6	1046.4	1012.9	949.5	867.6	786.9	709.7	655.7	614.7	598.0
1071.7	12.5°	1068.7	1053.6	998.7	900.8	776.8	667.4	585.2	543.2	517.9	497.6
1085.0	15°	1082.0	1060.8	976.9	835.6	677.3	566.3	505.6	472.1	451.9	438.6
1104.4	17.5°	1097.5	1066.9	944.2	752.9	582.5	496.3	446.8	426.6	422.6	421.0
1131.0	20°	1119.0	1072.5	901.1	660.2	512.8	440.4	414.9	413.0	412.8	412.0
1162.9	22.5°	1142.2	1079.1	844.1	576.1	453.5	405.6	401.0	397.3	394.9	394.7
1201.5	25°	1169.6	1081.2	772.8	507.2	402.9	389.1	383.7	378.2	376.6	376.6
1245.4	27.5°	1196.2	1074.1	689.8	447.3	374.4	373.9	367.0	365.1	364.9	365.6
1295.5	30°	1222.8	1060.5	607.3	392.0	357.9	357.9	355.5	356.9	357.9	360.6
1364.1	32.5°	1258.7	1046.1	538.4	351.0	343.6	340.9	343.3	346.0	347.0	350.5
1454.3	35°	1311.4	1036.0	483.5	328.7	328.7	325.2	326.5	326.0	323.6	322.0
1563.5	37.5°	1381.2	1035.5	438.3	318.3	316.2	315.6	315.9	312.4	303.1	291.9
1695.5	40°	1465.0	1049.8	403.4	311.1	309.5	312.7	311.1	301.8	276.2	256.8
1857.8	42.5°	1577.6	1090.8	381.1	302.3	307.1	311.1	304.7	272.5	255.2	242.2
2042.7	45°	1710.1	1157.4	369.6	293.0	302.6	307.4	276.5	262.4	248.6	232.9
2244.5	47.5°	1860.2	1241.2	367.0	284.2	292.5	295.4	264.5	258.1	242.4	225.4
2447.2	50°	2023.6	1340.4	374.2	273.8	277.8	267.7	260.5	254.7	238.4	221.7
2655.1	52.5°	2192.6	1449.8	388.5	259.7	263.2	252.0	258.9	253.9	236.0	213.4
2869.8	55°	2358.6	1560.0	402.4	243.2	248.3	237.9	254.4	250.7	225.1	199.6
3099.0	57.5°	2527.3	1669.6	415.9	228.6	233.9	224.3	247.2	242.2	212.9	186.8
3349.1	60°	2702.7	1776.1	422.3	214.5	218.2	211.8	236.3	227.5	199.1	173.8
3595.0	62.5°	2866.9	1864.7	412.0	200.4	202.8	200.1	221.9	210.2	185.2	159.1
3851.3	65°	3031.6	1917.4	380.0	186.6	187.1	185.8	201.7	191.6	169.0	146.4
4075.6	67.5°	3180.9	1946.9	329.2	171.6	170.3	169.8	182.8	171.4	153.3	133.6
4246.2	70°	3212.6	1871.9	251.5	154.1	154.1	152.8	162.1	150.4	136.0	120.0
4124.1	72.5°	2934.2	1574.6	178.6	134.1	136.3	133.6	141.3	131.5	118.4	107.8
3554.3	75°	2366.1	1154.7	129.9	113.6	117.4	112.8	120.0	113.1	101.9	101.7
2449.4	77.5°	1625.7	714.0	94.2	93.7	96.3	90.5	98.7	95.0	84.9	80.4
1066.1	80°	693.8	284.7	68.7	72.4	72.4	67.1	76.6	77.7	68.9	66.8
205.7	82.5°	138.1	80.9	48.2	49.8	46.8	45.2	54.3	60.1	83.0	92.3
62.0	85°	41.5	29.8	29.0	27.1	24.0	24.2	31.9	60.4	74.5	42.6
20.5	87.5°	11.4	7.5	7.7	6.1	5.1	6.7	10.9	45.8	25.0	10.6
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

180°
1009.9
977.7
892.3
753.7
601.7
504.3
441.0
422.1
414.6
397.6
378.2
367.8
362.5
353.4
325.7
292.2
256.3
241.6
231.8
224.1
219.8
211.8
198.3
186.3
173.0
158.9
144.8
132.0
119.5
104.6
91.5
75.3
66.8
92.6
36.7
9.0
0.0

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