

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: P945363

Luminaire Tested: **GALN-SB1B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945363
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4947 lumens
Efficiency: N/A
Efficacy: 124.3 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

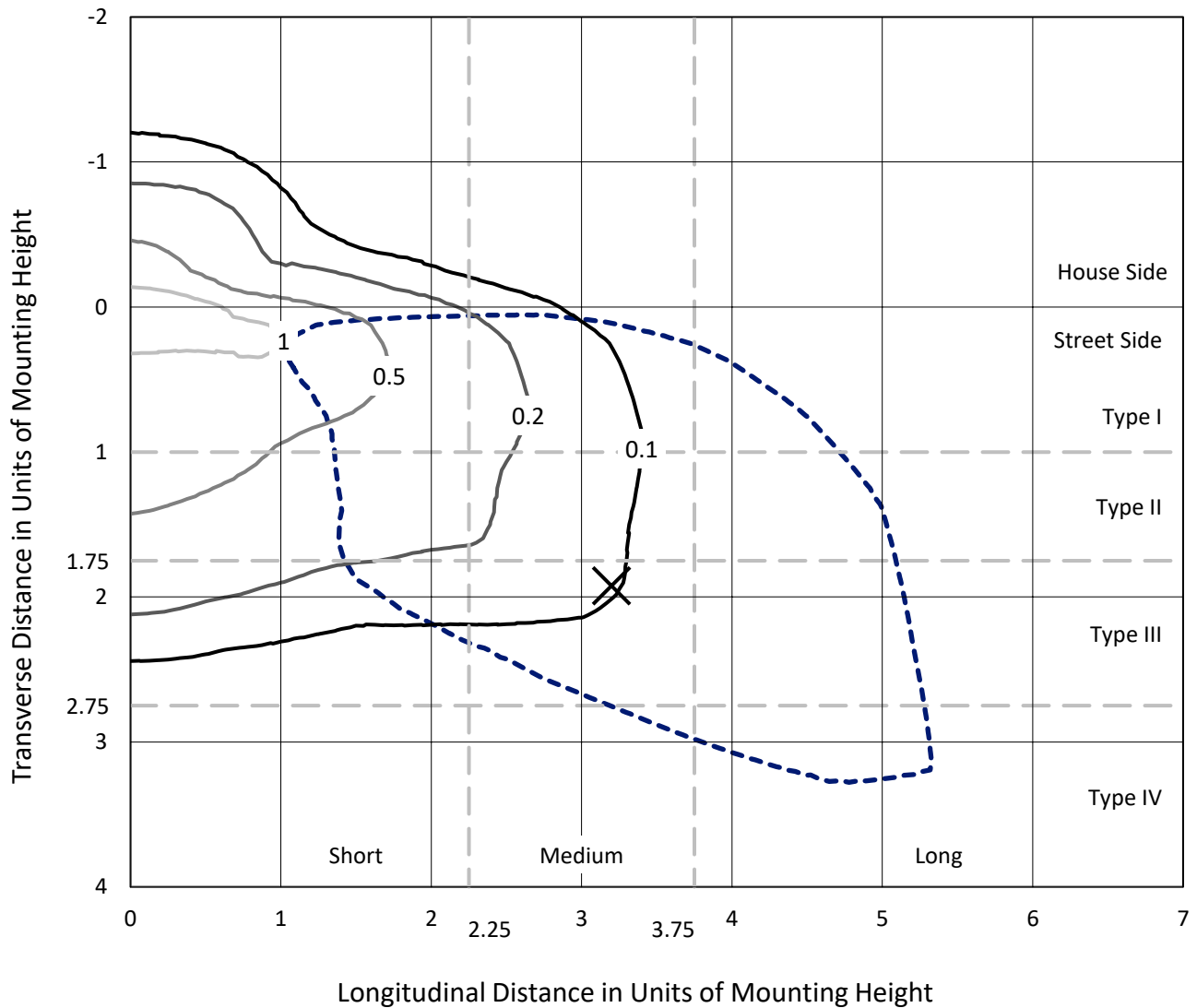
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

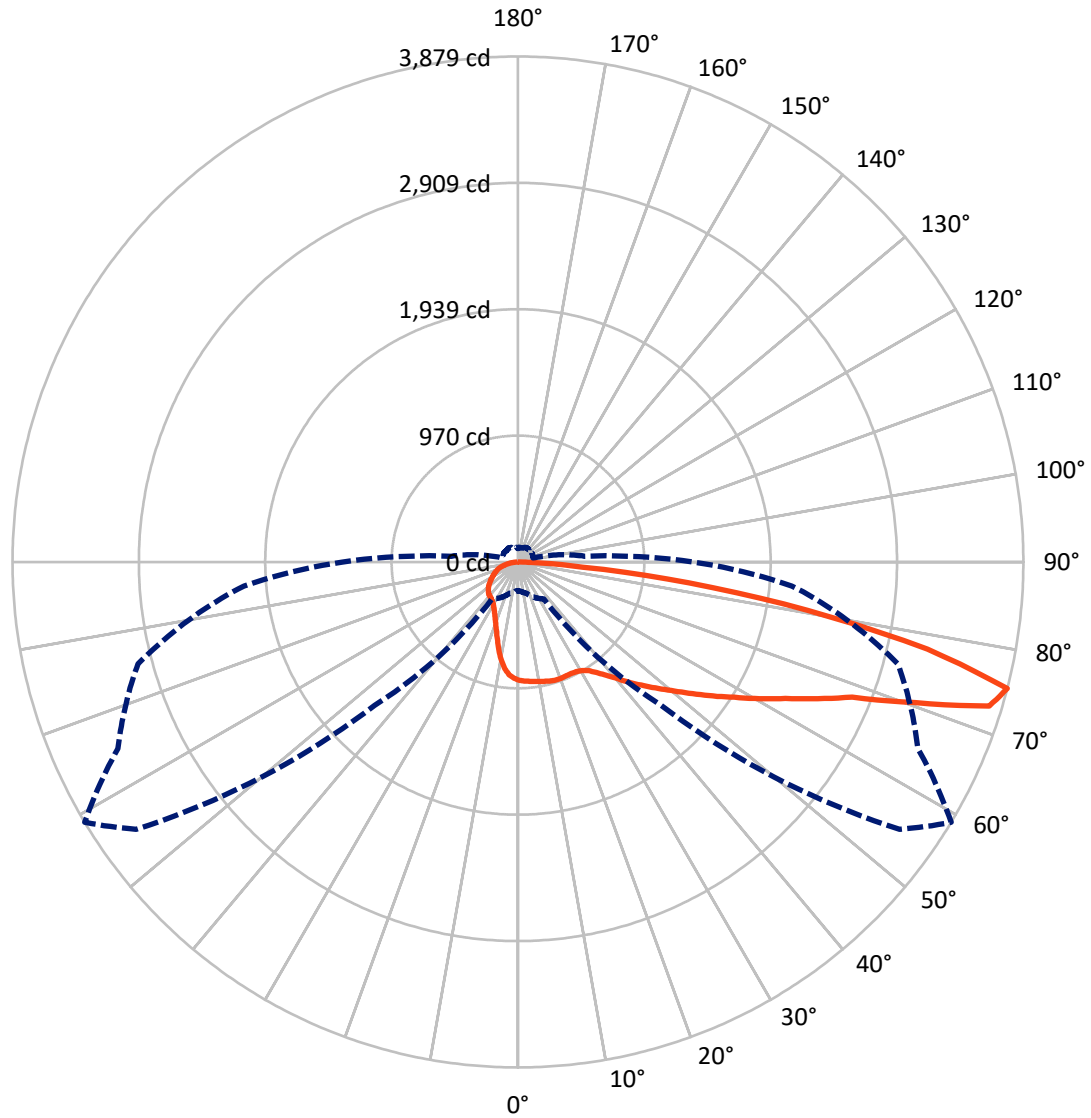
× Max cd
 - - - 1/2 Max cd



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	927.8	0.0	927.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4019.2	0.0	4019.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	4947.0	0.0	4947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.6
10°-20°	208.1	4.2
20°-30°	316.1	6.4
30°-40°	469.9	9.5
40°-50°	698.8	14.1
50°-60°	948.5	19.2
60°-70°	1158.0	23.4
70°-80°	908.8	18.4
80°-90°	157.4	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°	4947.0	100.0
0°-180°	4947.0	100.0

Coefficient of Utilization



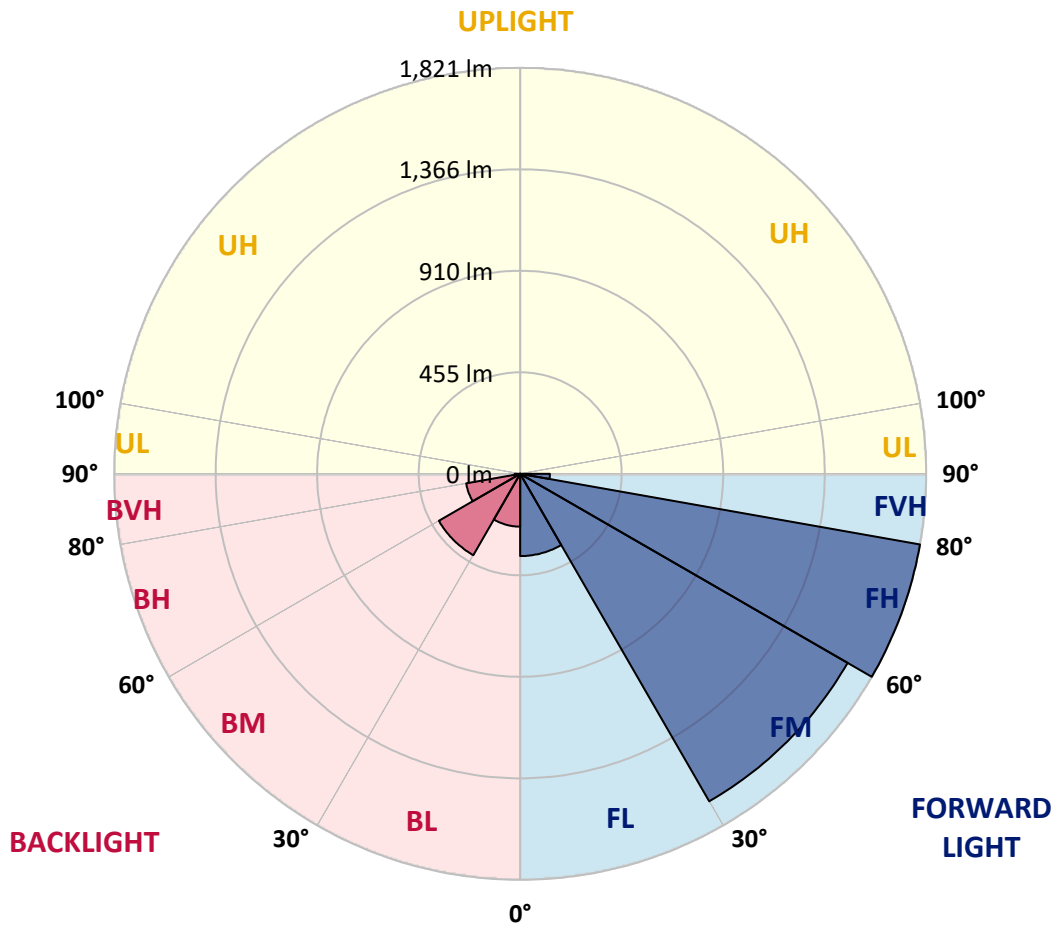
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.9	7.5			
FM (30°-60°)	1696.0	34.3			
FH (60°-80°)	1820.9	36.8			G2/5000
FVH (80°-90°)	133.3	2.7			G2/225
BL (0°-30°)	236.8	4.8	B1/500		
BM (30°-60°)	421.1	8.5	B1/1000		
BH (60°-80°)	245.8	5.0	B1/500		G1/500
BVH (80°-90°)	24.1	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°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
2.5°	915.7	912.5	915.7	914.4	913.9	912.8	913.1	914.9	913.9	915.2
5°	909.6	907.7	910.9	910.1	913.6	914.1	917.6	919.7	921.1	921.3
7.5°	899.5	897.6	902.2	905.9	913.3	915.5	922.6	926.1	928.0	931.2
10°	862.5	861.7	872.9	887.0	904.6	915.5	926.4	932.2	935.2	943.7
12.5°	797.0	798.1	812.7	839.9	875.0	910.1	930.6	939.1	943.7	954.3
15°	734.5	734.2	750.2	779.2	828.4	886.7	932.8	947.4	955.1	970.8
17.5°	698.3	697.2	708.4	730.5	776.3	850.8	927.4	951.9	968.4	988.1
20°	691.7	689.5	695.4	706.3	738.8	811.4	913.6	951.9	979.1	1004.6
22.5°	715.9	712.4	710.0	708.7	723.1	778.9	897.9	948.7	994.8	1028.3
25°	764.6	759.2	747.0	735.0	730.8	764.3	884.1	947.9	1018.2	1060.2
27.5°	843.3	836.7	811.9	783.2	757.4	771.8	877.9	952.7	1044.0	1094.0
30°	941.0	933.8	902.7	858.5	812.2	799.4	885.7	966.8	1077.0	1139.0
32.5°	1028.6	1020.6	994.0	949.0	886.5	847.3	910.1	993.7	1128.9	1201.5
35°	1106.3	1097.0	1073.0	1031.5	977.5	914.7	954.3	1041.3	1202.6	1303.2
37.5°	1182.4	1171.5	1145.4	1101.5	1063.7	1004.3	1015.3	1102.5	1300.5	1426.7
40°	1267.5	1251.8	1220.2	1176.8	1140.1	1109.5	1095.4	1177.6	1400.1	1564.5
42.5°	1350.0	1335.1	1297.3	1260.4	1214.3	1205.5	1188.2	1265.4	1508.9	1716.0
45°	1438.9	1421.1	1375.3	1328.5	1299.5	1269.4	1278.2	1353.2	1615.6	1870.3
47.5°	1522.2	1502.3	1448.2	1396.1	1380.1	1323.2	1360.7	1449.8	1726.6	2026.8
50°	1567.2	1547.5	1502.5	1455.4	1442.9	1389.4	1450.1	1556.0	1842.9	2182.7
52.5°	1604.7	1583.4	1524.6	1498.5	1494.8	1461.5	1560.3	1677.4	1959.2	2320.6
55°	1644.6	1621.0	1545.9	1522.5	1539.5	1542.4	1690.9	1815.0	2082.1	2455.0
57.5°	1690.7	1660.6	1566.4	1542.7	1583.2	1637.2	1841.0	1957.6	2203.0	2579.5
60°	1734.1	1703.7	1605.8	1574.9	1630.3	1747.1	2013.2	2130.3	2339.8	2690.5
62.5°	1742.6	1717.6	1637.2	1636.9	1694.1	1875.4	2217.1	2304.6	2459.2	2800.1
65°	1595.1	1579.4	1531.8	1634.5	1785.7	2060.1	2444.1	2527.6	2611.2	2895.9
67.5°	1214.1	1216.2	1212.7	1411.0	1711.7	2325.4	2772.7	2766.3	2798.8	3003.5
70°	555.1	567.6	649.1	974.0	1371.3	2356.0	3316.2	3233.4	3034.3	3142.6
72.5°	299.9	309.5	342.8	471.8	824.4	2094.7	3722.3	3781.1	3347.6	3236.3
75°	220.1	225.4	248.6	299.9	346.2	1556.8	3576.7	3878.5	3386.7	3017.8
77.5°	164.7	167.1	186.0	237.6	177.2	820.7	2857.9	3212.1	2899.1	2479.5
80°	119.5	122.2	136.3	178.3	124.3	300.2	1962.4	2254.6	1985.5	1580.5
82.5°	82.5	83.6	89.7	121.4	86.8	116.6	1113.5	1322.1	1108.4	554.6
85°	49.8	51.1	53.8	70.8	49.2	55.4	480.6	497.1	331.3	132.5
87.5°	20.5	21.8	24.0	29.8	19.4	15.4	79.3	99.5	62.0	38.9
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°
908.0	0°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
910.7	2.5°	909.3	907.5	902.4	895.5	889.1	881.1	877.7	874.7	872.1	867.0
917.9	5°	914.9	909.9	896.3	878.7	858.8	837.0	815.7	801.0	788.5	779.2
926.1	7.5°	923.4	913.9	889.1	853.2	807.4	760.6	718.3	688.2	665.6	657.3
937.8	10°	932.2	920.8	877.7	814.3	735.3	663.2	607.0	576.2	558.1	552.2
951.7	12.5°	942.6	925.8	859.8	760.3	654.7	575.6	526.7	508.6	499.2	496.1
968.7	15°	957.8	930.1	833.0	692.7	577.8	511.8	480.1	467.6	462.8	462.5
986.3	17.5°	969.2	930.9	791.2	620.3	518.7	473.2	447.1	442.3	445.5	450.3
1003.5	20°	982.0	923.7	736.4	554.3	477.2	439.4	428.5	431.7	439.4	446.3
1026.4	22.5°	991.0	910.7	670.1	503.0	441.2	419.9	419.4	426.1	430.3	433.8
1053.3	25°	999.0	888.6	599.8	459.9	411.7	408.2	414.1	412.0	409.0	412.0
1080.2	27.5°	1004.9	853.7	537.0	422.1	390.9	400.2	396.8	392.0	391.7	393.3
1111.9	30°	1003.0	807.2	485.4	386.1	376.3	385.3	377.1	376.3	375.5	376.3
1159.5	32.5°	1003.0	754.2	445.8	361.4	367.0	363.5	362.7	360.9	357.7	357.4
1224.2	35°	1008.6	701.2	411.7	348.1	359.3	351.0	351.5	347.0	340.4	337.2
1309.9	37.5°	1020.0	658.7	377.9	341.7	345.7	345.4	343.3	335.6	323.9	313.8
1416.8	40°	1047.7	646.1	354.7	338.8	339.3	342.5	336.9	322.0	295.4	278.9
1525.4	42.5°	1091.1	667.2	349.7	331.6	335.0	338.2	327.3	292.7	273.8	264.0
1639.3	45°	1146.2	703.9	360.6	321.2	324.9	330.5	298.1	281.6	273.0	273.3
1752.2	47.5°	1215.9	742.5	380.8	312.2	310.3	313.5	278.6	268.5	256.8	259.7
1860.5	50°	1296.6	781.6	400.0	299.9	294.1	283.7	266.1	256.5	241.6	234.7
1965.1	52.5°	1383.8	819.4	407.7	285.0	276.5	264.5	257.6	245.9	227.8	216.4
2063.8	55°	1466.6	853.7	399.2	267.2	258.9	249.6	248.6	241.4	221.9	206.0
2151.6	57.5°	1544.8	882.5	377.9	249.1	241.1	235.5	242.7	239.2	214.8	194.3
2234.6	60°	1611.1	902.2	347.0	230.7	225.1	222.2	233.1	232.1	204.6	181.8
2309.1	62.5°	1663.8	909.9	313.0	213.2	211.8	206.5	219.8	219.8	191.9	169.5
2374.6	65°	1705.0	902.4	278.4	195.9	198.5	190.5	203.6	202.0	178.3	158.6
2449.9	67.5°	1741.5	877.9	240.0	178.8	185.0	174.8	186.6	182.8	163.4	147.7
2515.1	70°	1757.7	821.0	196.4	161.8	169.3	159.4	169.5	162.6	146.6	136.0
2443.5	72.5°	1627.3	682.3	154.6	144.0	150.4	142.4	151.2	143.2	128.5	123.7
2110.1	75°	1346.3	512.0	119.0	124.5	129.3	123.2	129.1	123.2	109.9	113.4
1558.7	77.5°	977.7	345.7	91.0	104.1	106.2	103.0	108.0	101.4	89.4	88.6
776.8	80°	486.2	202.5	71.3	82.2	81.4	79.3	85.2	82.0	71.9	76.1
209.7	82.5°	140.8	86.8	51.9	57.7	56.2	56.7	60.9	62.5	93.7	92.9
65.2	85°	44.2	34.1	31.1	32.2	30.6	31.4	35.9	71.3	66.0	38.6
20.2	87.5°	11.4	11.7	7.7	8.2	8.5	10.1	11.4	43.4	20.8	13.6
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

<u>180°</u>
908.0
864.6
771.5
643.0
543.2
496.9
463.6
452.1
448.7
435.6
413.8
396.0
379.2
360.9
340.4
317.2
281.0
264.0
274.6
267.2
236.6
216.1
206.0
193.2
181.0
168.7
157.5
146.6
133.9
119.8
103.5
84.6
75.3
95.0
41.8
14.4
0.0

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