

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: P945814

Luminaire Tested: **GALN-SB1C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4681 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

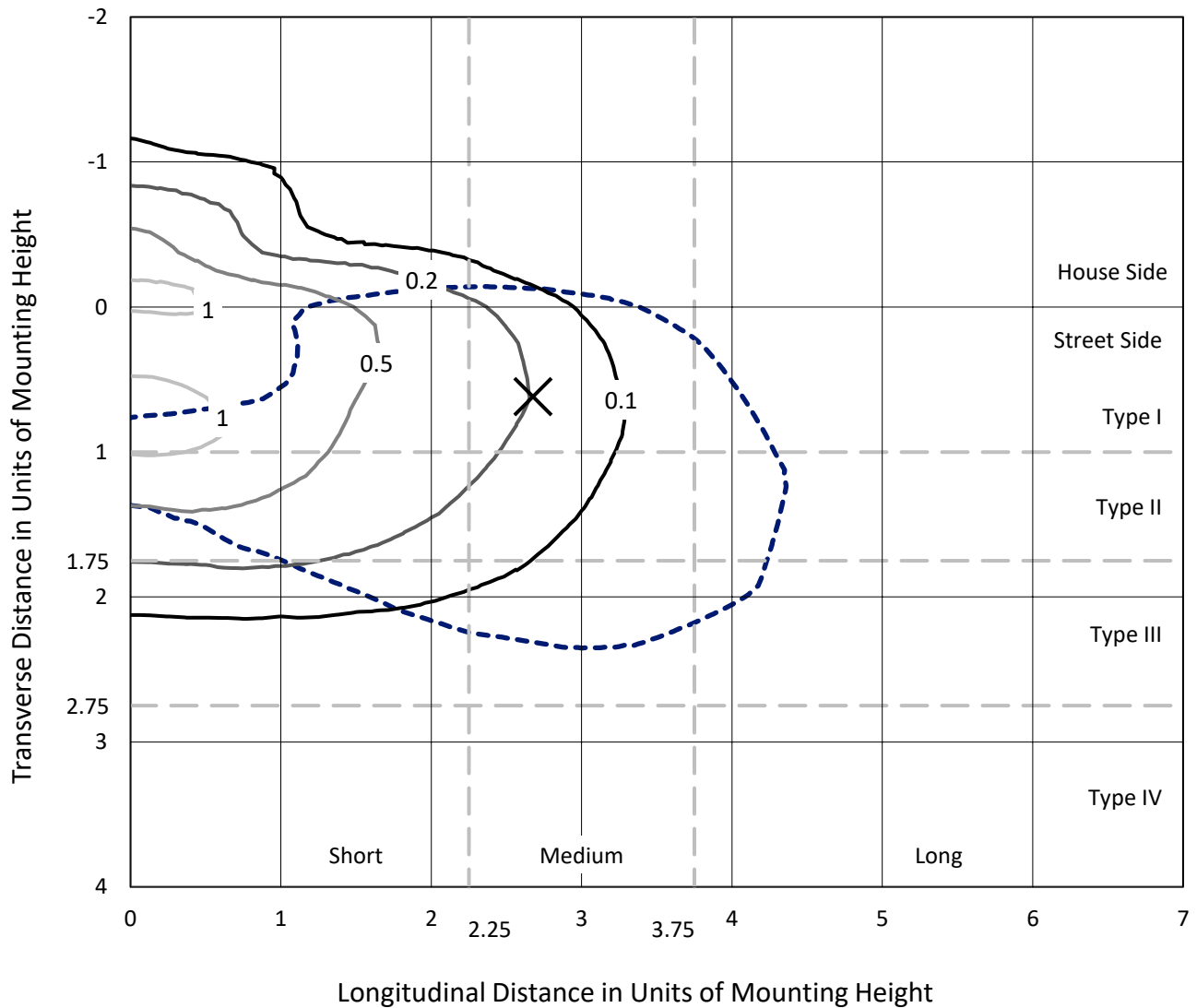
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945814
 CATALOG NUMBER: GALN-SB1C-927-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

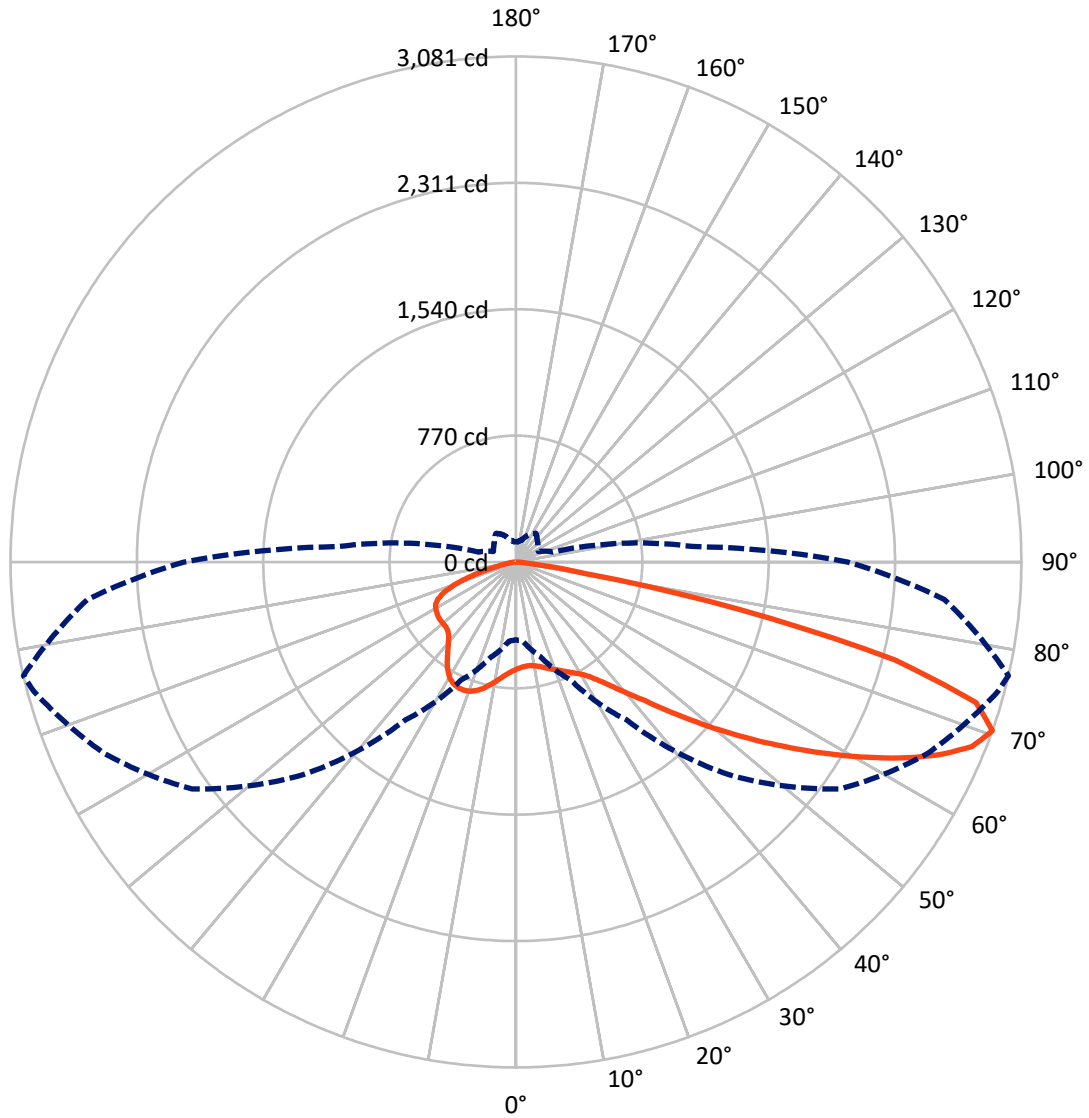
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P945814
CATALOG NUMBER: GALN-SB1C-927-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1025.1	0.0	1025.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3655.9	0.0	3655.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	4681.0	0.0	4681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	179.8	3.8
20°-30°	307.4	6.6
30°-40°	494.3	10.6
40°-50°	771.8	16.5
50°-60°	1030.9	22.0
60°-70°	1098.8	23.5
70°-80°	676.4	14.5
80°-90°	59.3	1.3
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°	4681.0	100.0
0°-180°	4681.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945814

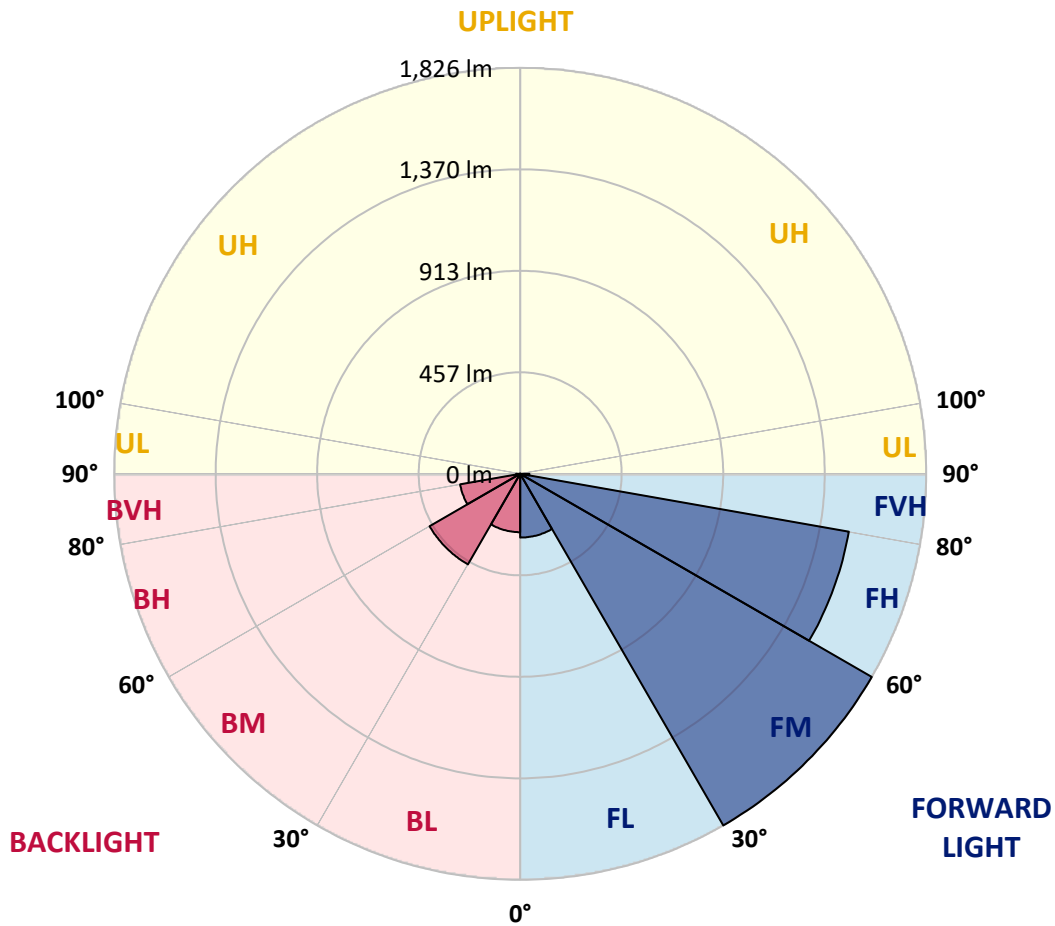
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.8	6.1			
FM (30°-60°)	1826.4	39.0			
FH (60°-80°)	1501.3	32.1			G1/1800
FVH (80°-90°)	41.4	0.9			G1/100
BL (0°-30°)	262.7	5.6	B1/500		
BM (30°-60°)	470.6	10.1	B1/1000		
BH (60°-80°)	274.0	5.9	B1/500		G1/500
BVH (80°-90°)	17.8	0.4			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 Medium



REPORT NUMBER: P945814

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
2.5°	602.0	601.7	604.9	605.8	611.6	615.6	623.3	631.5	642.0	643.2
5°	567.2	567.2	570.8	574.6	582.1	590.2	602.0	616.1	634.3	637.2
7.5°	537.7	539.6	542.8	550.2	558.8	570.6	588.6	608.7	632.7	637.2
10°	514.0	516.2	520.0	526.0	538.9	555.2	578.7	604.6	636.7	643.9
12.5°	506.6	508.7	510.9	515.4	527.4	546.6	574.6	606.5	646.6	653.8
15°	523.8	526.5	524.8	523.6	529.8	547.3	576.6	613.5	658.8	669.1
17.5°	563.6	564.6	560.7	549.5	548.5	557.9	585.7	623.1	674.1	685.4
20°	627.9	626.2	618.3	596.0	583.3	581.4	601.3	637.5	690.0	701.9
22.5°	715.1	713.2	697.4	662.2	633.9	615.2	623.8	656.2	707.7	721.1
25°	824.0	821.3	798.1	750.1	706.3	660.0	654.5	680.9	729.5	742.0
27.5°	951.0	948.9	923.7	860.4	797.1	721.4	692.6	709.9	752.3	766.4
30°	1087.7	1093.9	1049.3	981.2	901.2	801.4	743.9	745.6	781.8	794.5
32.5°	1248.3	1259.1	1205.4	1119.1	1009.8	888.5	808.6	795.4	824.7	835.2
35°	1407.5	1419.7	1375.1	1279.7	1153.9	991.1	876.2	852.7	881.8	893.3
37.5°	1545.1	1561.4	1538.4	1455.4	1308.0	1114.8	964.5	920.1	952.0	966.4
40°	1653.7	1678.6	1677.0	1625.2	1489.7	1264.8	1076.4	1003.3	1039.3	1054.8
42.5°	1741.9	1763.5	1782.2	1779.6	1679.4	1435.3	1208.0	1111.4	1138.7	1156.7
45°	1802.8	1825.8	1866.1	1909.5	1861.8	1617.7	1358.8	1239.7	1264.6	1291.7
47.5°	1857.2	1883.4	1935.6	2004.4	2016.7	1800.9	1524.0	1389.0	1411.8	1439.9
50°	1862.0	1884.6	1965.6	2063.2	2126.7	1976.9	1701.4	1556.6	1577.9	1607.9
52.5°	1746.2	1781.7	1923.2	2061.5	2177.3	2124.1	1877.6	1730.9	1754.9	1790.8
55°	1355.5	1407.5	1798.7	1997.2	2159.3	2219.2	2045.2	1916.2	1946.9	1984.5
57.5°	1167.5	1190.3	1427.9	1880.3	2077.3	2243.9	2186.6	2103.4	2152.8	2194.1
60°	1049.3	1068.3	1208.8	1698.3	1969.4	2204.9	2296.0	2278.0	2363.3	2412.5
62.5°	922.7	940.7	1068.5	1418.0	1831.3	2139.9	2365.0	2439.1	2579.1	2632.8
65°	797.1	812.5	935.0	1191.5	1655.9	2074.9	2400.7	2578.4	2778.8	2834.4
67.5°	657.1	669.8	785.6	1005.2	1442.5	1986.0	2418.5	2687.9	2952.6	3000.3
70°	474.2	484.0	603.7	795.0	1174.7	1833.0	2411.3	2765.6	3042.7	3080.9
72.5°	224.2	233.0	373.5	516.2	829.7	1535.3	2265.7	2704.0	2951.2	2932.2
75°	119.6	127.3	214.6	283.1	438.2	1052.4	1854.1	2329.3	2478.2	2386.1
77.5°	81.0	87.0	132.8	170.0	200.2	499.6	1191.7	1612.7	1551.6	1399.6
80°	64.2	70.5	108.8	115.1	96.9	180.5	492.4	746.5	536.3	428.9
82.5°	49.4	56.3	91.6	83.4	52.7	74.1	143.4	236.1	137.4	104.5
85°	30.2	37.6	71.9	53.2	29.7	33.8	48.7	65.7	42.0	35.0
87.5°	15.3	21.6	36.4	19.4	13.4	7.9	12.9	12.9	11.0	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945814
 CATALOG NUMBER: GALN-SB1C-927-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
653.0	0°	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
649.7	2.5°	655.4	660.2	668.4	676.1	682.1	687.8	693.6	696.7	697.6	701.5
653.3	5°	663.1	672.0	687.8	702.7	712.0	717.8	721.8	724.2	724.7	725.9
663.1	7.5°	677.3	691.4	713.5	728.3	735.3	734.8	733.1	727.1	724.7	722.6
677.5	10°	697.2	715.9	742.9	753.3	748.9	737.4	722.6	705.1	696.9	689.0
697.2	12.5°	721.8	745.6	772.2	771.7	750.4	720.9	686.4	659.5	642.5	630.3
721.4	15°	751.8	779.1	799.5	783.2	736.5	683.5	632.9	597.9	582.6	569.1
745.8	17.5°	782.7	812.0	821.3	779.6	701.5	628.1	570.8	543.2	528.1	520.9
772.2	20°	812.9	842.0	834.3	759.0	648.2	565.3	514.2	499.1	496.0	497.7
797.8	22.5°	844.8	870.7	836.9	719.2	580.4	501.0	473.0	473.5	480.4	485.5
824.7	25°	877.4	894.9	830.0	661.7	507.5	453.8	446.9	454.5	468.2	478.0
854.9	27.5°	908.8	916.5	814.9	590.5	445.0	420.0	421.2	437.0	457.7	471.3
891.6	30°	944.3	935.7	785.9	510.4	401.6	391.0	401.1	419.5	440.2	452.4
937.8	32.5°	984.4	952.2	739.8	436.3	370.9	367.8	384.3	396.3	405.4	409.0
999.2	35°	1034.2	975.5	680.9	384.3	343.3	350.7	366.6	360.6	357.0	355.0
1081.7	37.5°	1099.0	1006.9	611.8	350.5	321.0	338.5	345.0	326.3	312.1	305.2
1181.7	40°	1176.9	1052.9	545.4	324.4	306.9	328.0	316.7	294.2	276.2	266.3
1294.1	42.5°	1263.4	1101.1	489.5	304.7	299.0	319.3	295.8	269.0	240.0	236.9
1428.1	45°	1354.3	1150.7	451.4	289.6	295.1	311.9	283.8	240.5	219.8	232.5
1562.6	47.5°	1445.1	1196.3	428.4	278.3	293.2	303.5	273.3	224.6	210.0	228.5
1706.7	50°	1546.3	1237.0	418.1	270.2	291.0	300.2	257.5	220.6	199.7	211.9
1855.8	52.5°	1646.7	1268.7	410.4	262.0	287.9	297.5	249.8	215.8	187.2	188.0
2005.9	55°	1747.0	1289.3	402.0	251.2	281.0	291.8	249.1	210.5	177.9	174.5
2164.6	57.5°	1853.9	1301.0	391.7	239.3	269.0	277.1	248.4	206.4	175.0	169.5
2326.9	60°	1962.7	1318.3	378.3	224.6	252.9	259.6	246.7	205.0	173.3	164.0
2479.8	62.5°	2060.3	1324.3	362.2	210.7	232.3	242.4	243.1	203.8	168.8	152.7
2606.9	65°	2124.3	1298.4	334.2	194.9	210.0	224.6	236.1	199.7	160.6	144.6
2669.7	67.5°	2121.7	1224.6	290.3	174.5	188.4	205.0	226.1	192.7	150.8	134.5
2622.2	70°	2022.9	1078.8	234.7	150.8	164.7	183.9	213.1	182.4	139.0	123.5
2331.7	72.5°	1735.0	844.4	170.5	123.0	137.1	162.1	196.3	170.0	127.1	113.6
1723.2	75°	1239.4	534.4	115.6	94.5	106.7	137.4	175.5	155.3	116.0	114.1
863.1	77.5°	633.1	255.3	76.5	69.0	74.3	108.4	147.4	138.8	117.7	94.2
245.5	80°	205.9	94.2	48.2	47.0	49.4	72.2	114.1	113.9	89.2	64.0
59.5	82.5°	65.7	40.5	31.4	30.2	29.0	45.3	79.6	90.1	60.2	40.5
21.3	85°	26.1	24.2	18.5	17.0	12.2	21.3	41.7	59.9	44.8	29.2
5.5	87.5°	9.6	9.6	5.0	3.6	2.6	7.2	11.3	18.0	25.7	15.1
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>
653.0
703.6
727.8
723.0
686.6
627.4
567.7
523.1
497.0
486.7
480.7
474.7
455.3
410.9
357.0
306.9
267.1
240.0
239.3
237.1
221.0
193.0
176.9
170.2
164.7
152.7
144.6
135.2
124.9
112.9
107.6
83.9
56.6
40.3
30.0
14.9
0.0

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