

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: P945445

Luminaire Tested: **GALN-SB1B-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945445  
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-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

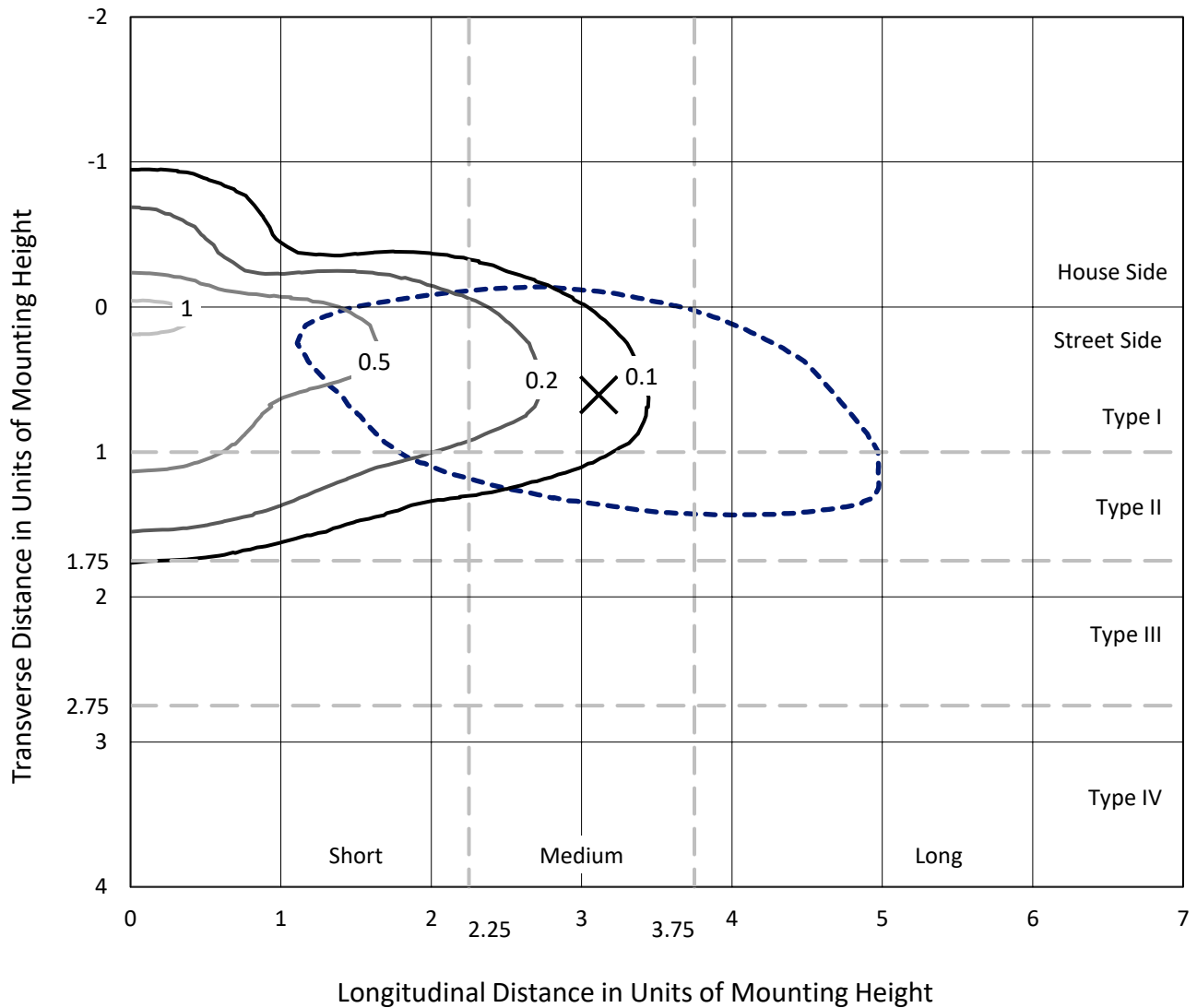
Lumens per Lamp: N/A  
Luminaire Lumens: 3408 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

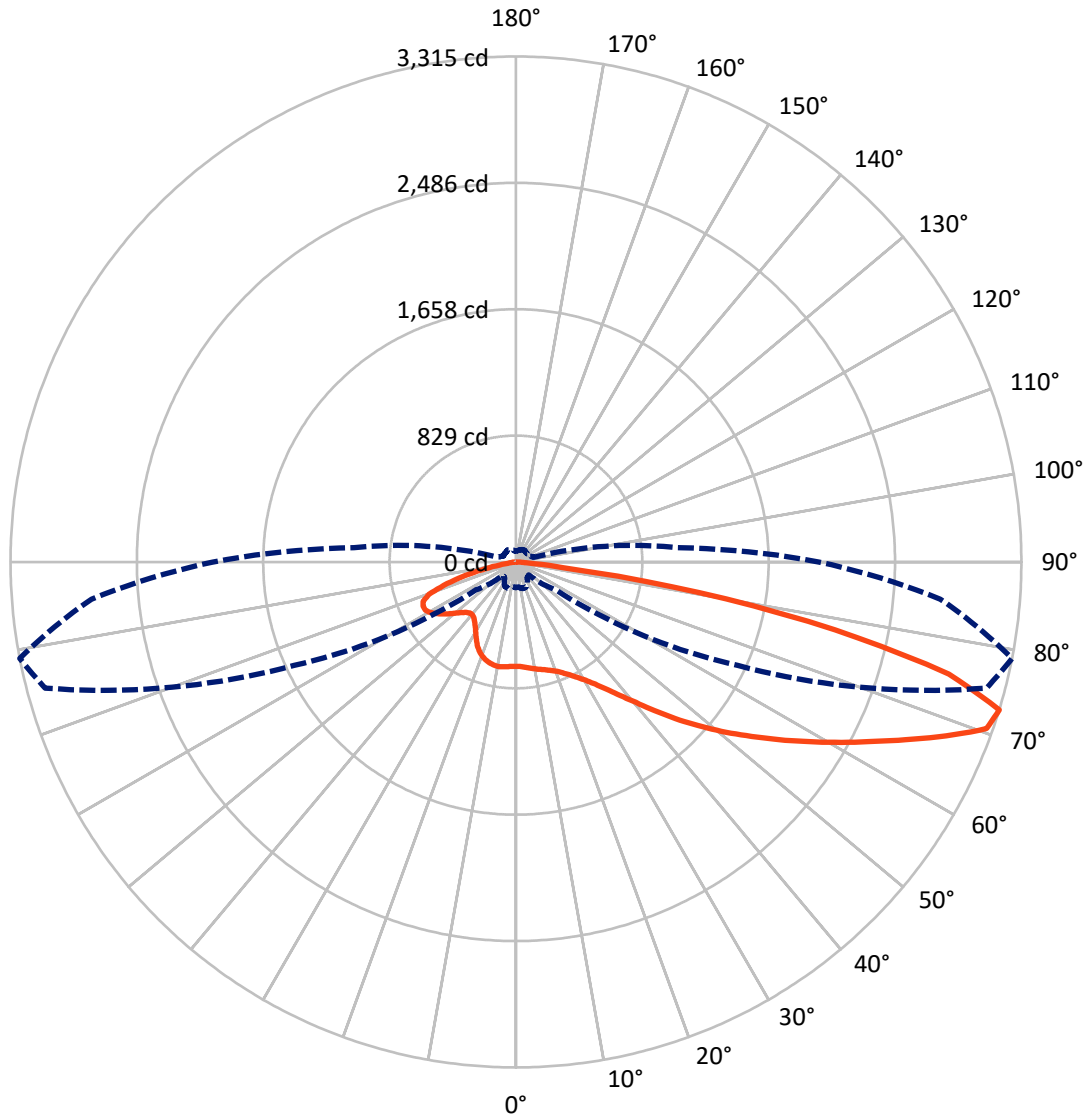
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
<b>House Side</b>	Lumens	749.9	0.0	749.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	2658.1	0.0	2658.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	3408.0	0.0	3408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	1.8
10°-20°	162.4	4.8
20°-30°	262.0	7.7
30°-40°	393.2	11.5
40°-50°	557.8	16.4
50°-60°	704.4	20.7
60°-70°	715.4	21.0
70°-80°	487.6	14.3
80°-90°	63.3	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°	3408.0	100.0
0°-180°	3408.0	100.0

**Coefficient of Utilization**

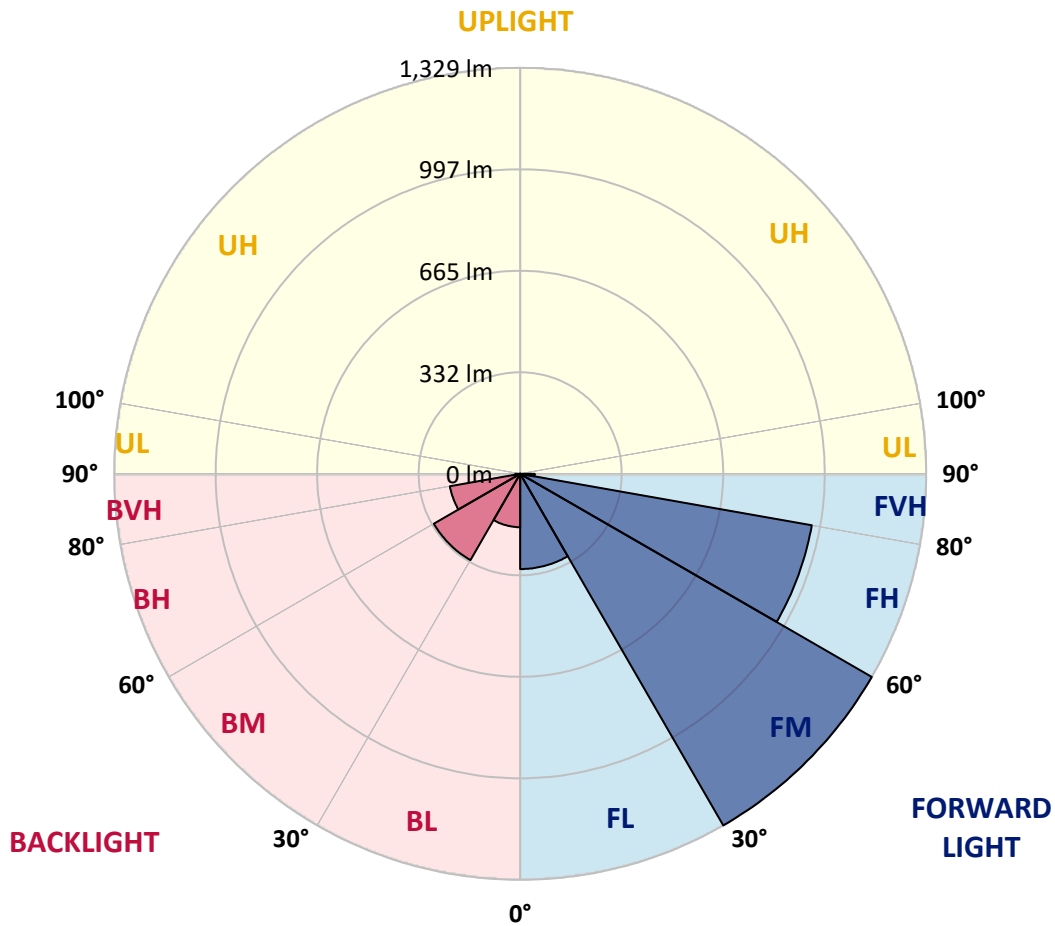


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.7	9.1			
FM (30°-60°)	1329.2	39.0			
FH (60°-80°)	969.5	28.4			G1/1800
FVH (80°-90°)	47.7	1.4			G1/100
BL (0°-30°)	174.7	5.1	B1/500		
BM (30°-60°)	326.1	9.6	B1/1000		
BH (60°-80°)	233.5	6.9	B1/500		G1/500
BVH (80°-90°)	15.6	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°	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1
2.5°	684.5	681.2	683.2	682.5	683.4	684.5	684.8	685.4	687.2	687.0
5°	683.0	679.8	682.5	681.6	683.9	686.5	688.6	690.6	693.5	694.8
7.5°	680.0	677.8	680.5	683.2	687.5	691.3	694.4	698.9	703.1	703.8
10°	662.1	660.5	666.8	673.8	685.7	696.0	702.7	707.9	712.4	713.1
12.5°	643.6	641.6	648.6	658.2	677.5	696.0	710.1	716.9	720.9	723.2
15°	640.5	638.9	642.8	651.1	667.2	691.2	715.1	727.7	731.2	733.9
17.5°	655.3	652.2	653.8	656.7	666.1	686.6	719.1	740.0	745.2	748.1
20°	689.5	685.2	682.7	676.9	675.3	687.4	718.7	754.8	761.6	765.2
22.5°	735.1	732.3	726.8	712.2	696.4	696.2	725.6	773.7	786.5	789.9
25°	790.3	786.0	779.1	759.3	728.8	713.7	737.1	797.9	819.3	820.2
27.5°	853.8	847.3	837.9	811.8	770.7	741.1	754.8	825.6	857.0	856.6
30°	920.6	914.1	904.2	872.5	820.8	778.0	779.3	855.6	901.7	899.7
32.5°	969.5	964.6	962.6	938.1	878.5	821.7	807.4	888.7	956.9	955.1
35°	1007.0	1000.7	1003.0	990.6	941.4	870.5	841.9	928.2	1023.9	1023.8
37.5°	1044.1	1038.5	1040.5	1032.2	999.6	932.5	883.9	976.5	1107.0	1111.0
40°	1078.0	1072.1	1080.0	1072.2	1044.8	998.5	931.6	1031.1	1203.3	1210.9
42.5°	1098.4	1093.7	1106.9	1107.0	1084.1	1054.2	984.1	1091.4	1314.7	1331.7
45°	1105.4	1103.8	1123.6	1127.8	1118.9	1086.5	1031.3	1157.0	1434.8	1465.1
47.5°	1097.8	1094.8	1122.2	1137.5	1144.5	1101.6	1070.4	1228.0	1557.4	1601.7
50°	1059.6	1053.7	1094.4	1126.7	1151.7	1111.5	1109.9	1310.0	1696.7	1745.2
52.5°	990.9	986.4	1032.8	1088.8	1135.9	1116.4	1154.3	1399.6	1829.0	1891.8
55°	903.2	897.2	948.2	1021.4	1096.4	1114.8	1198.6	1499.8	1985.1	2048.8
57.5°	764.0	752.1	816.6	903.2	1032.0	1112.8	1244.8	1599.5	2143.8	2220.0
60°	561.0	543.3	622.5	725.0	906.2	1093.5	1301.9	1711.3	2334.1	2402.8
62.5°	326.6	316.4	368.1	463.8	683.0	979.9	1334.0	1841.3	2521.3	2593.4
65°	253.6	250.8	255.3	262.7	380.2	733.7	1235.0	1968.0	2759.2	2809.7
67.5°	232.0	229.8	231.8	217.9	192.9	408.7	977.1	2000.1	3014.1	3044.8
70°	206.2	203.7	210.2	198.3	151.8	185.9	631.3	1883.6	3216.9	3274.4
72.5°	168.0	165.1	180.3	174.9	127.8	119.3	317.1	1606.9	3195.6	3315.0
75°	129.1	127.5	145.5	150.0	104.2	93.9	152.1	1194.5	2812.2	2932.4
77.5°	100.2	99.0	108.2	124.6	84.0	72.8	93.6	757.7	2119.3	2140.3
80°	75.2	71.6	80.0	96.4	65.4	53.2	63.5	441.8	1339.6	1214.3
82.5°	47.1	45.2	52.3	64.4	46.1	36.6	41.3	244.1	536.8	316.2
85°	26.9	26.1	28.5	36.8	25.1	21.1	23.6	107.8	98.1	67.4
87.5°	10.8	10.5	13.0	16.4	9.2	7.8	8.3	26.0	21.6	20.0
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°
684.1	0°	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1
686.8	2.5°	686.1	686.1	683.6	679.6	675.1	672.2	667.5	666.3	661.4	660.0
693.0	5°	694.4	693.0	685.2	674.0	658.7	644.6	629.1	619.4	605.7	600.8
705.0	7.5°	704.9	700.9	687.5	663.0	630.9	599.4	566.6	541.7	517.9	509.4
714.9	10°	714.4	708.8	686.1	643.2	587.7	533.1	480.8	444.2	416.4	405.1
725.9	12.5°	724.0	713.7	676.6	610.2	526.2	452.1	396.4	367.9	350.8	337.1
735.0	15°	733.0	718.6	661.8	566.0	458.8	383.6	342.5	319.8	306.1	297.1
748.1	17.5°	743.4	722.7	639.6	510.0	394.6	336.2	302.7	289.0	286.3	285.2
766.1	20°	758.0	726.5	610.4	447.2	347.4	298.3	281.0	279.8	279.6	279.1
787.8	22.5°	773.7	731.0	571.8	390.3	307.2	274.7	271.7	269.1	267.5	267.3
813.9	25°	792.3	732.4	523.5	343.6	272.9	263.6	259.9	256.2	255.1	255.1
843.7	27.5°	810.3	727.6	467.3	303.0	253.6	253.3	248.6	247.3	247.1	247.7
877.6	30°	828.3	718.4	411.4	265.5	242.5	242.5	240.8	241.7	242.5	244.3
924.1	32.5°	852.7	708.6	364.7	237.8	232.7	230.9	232.5	234.4	235.1	237.4
985.2	35°	888.4	701.8	327.6	222.6	222.6	220.3	221.2	220.8	219.2	218.1
1059.1	37.5°	935.6	701.4	296.9	215.6	214.2	213.8	214.0	211.6	205.3	197.8
1148.5	40°	992.4	711.2	273.3	210.7	209.7	211.8	210.7	204.4	187.1	174.0
1258.5	42.5°	1068.6	738.9	258.1	204.8	208.0	210.7	206.4	184.6	172.9	164.0
1383.8	45°	1158.4	784.0	250.4	198.5	205.0	208.2	187.3	177.7	168.4	157.7
1520.4	47.5°	1260.1	840.8	248.6	192.5	198.1	200.1	179.2	174.9	164.2	152.7
1657.8	50°	1370.8	908.0	253.5	185.5	188.2	181.4	176.5	172.5	161.5	150.2
1798.6	52.5°	1485.2	982.1	263.2	175.9	178.3	170.7	175.4	172.0	159.9	144.6
1944.0	55°	1597.7	1056.7	272.6	164.8	168.2	161.2	172.3	169.8	152.5	135.2
2099.2	57.5°	1712.0	1131.0	281.8	154.9	158.5	152.0	167.5	164.0	144.2	126.5
2268.7	60°	1830.8	1203.1	286.1	145.3	147.8	143.5	160.1	154.1	134.8	117.7
2435.3	62.5°	1942.0	1263.1	279.1	135.7	137.4	135.6	150.3	142.4	125.5	107.8
2608.9	65°	2053.6	1298.8	257.4	126.4	126.7	125.8	136.6	129.8	114.5	99.1
2760.8	67.5°	2154.8	1318.9	223.0	116.3	115.4	115.0	123.8	116.1	103.8	90.5
2876.4	70°	2176.2	1268.0	170.4	104.4	104.4	103.5	109.8	101.9	92.1	81.3
2793.6	72.5°	1987.7	1066.7	121.0	90.9	92.3	90.5	95.7	89.1	80.2	73.0
2407.7	75°	1602.8	782.2	88.0	77.0	79.5	76.4	81.3	76.6	69.0	68.9
1659.2	77.5°	1101.3	483.7	63.8	63.5	65.3	61.3	66.9	64.4	57.5	54.4
722.2	80°	470.0	192.9	46.5	49.0	49.0	45.4	51.9	52.6	46.7	45.2
139.3	82.5°	93.6	54.8	32.6	33.7	31.7	30.6	36.8	40.7	56.2	62.6
42.0	85°	28.1	20.2	19.6	18.4	16.2	16.4	21.6	40.9	50.5	28.8
13.9	87.5°	7.8	5.0	5.2	4.1	3.4	4.5	7.4	31.0	16.9	7.2
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>
684.1
662.3
604.4
510.5
407.6
341.6
298.7
285.9
280.9
269.3
256.2
249.1
245.5
239.4
220.7
197.9
173.6
163.7
157.0
151.8
148.9
143.5
134.3
126.2
117.2
107.6
98.1
89.4
80.9
70.8
62.0
51.0
45.2
62.7
24.9
6.1
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