

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: P946526

Luminaire Tested: **GALN-SB2A-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5534 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

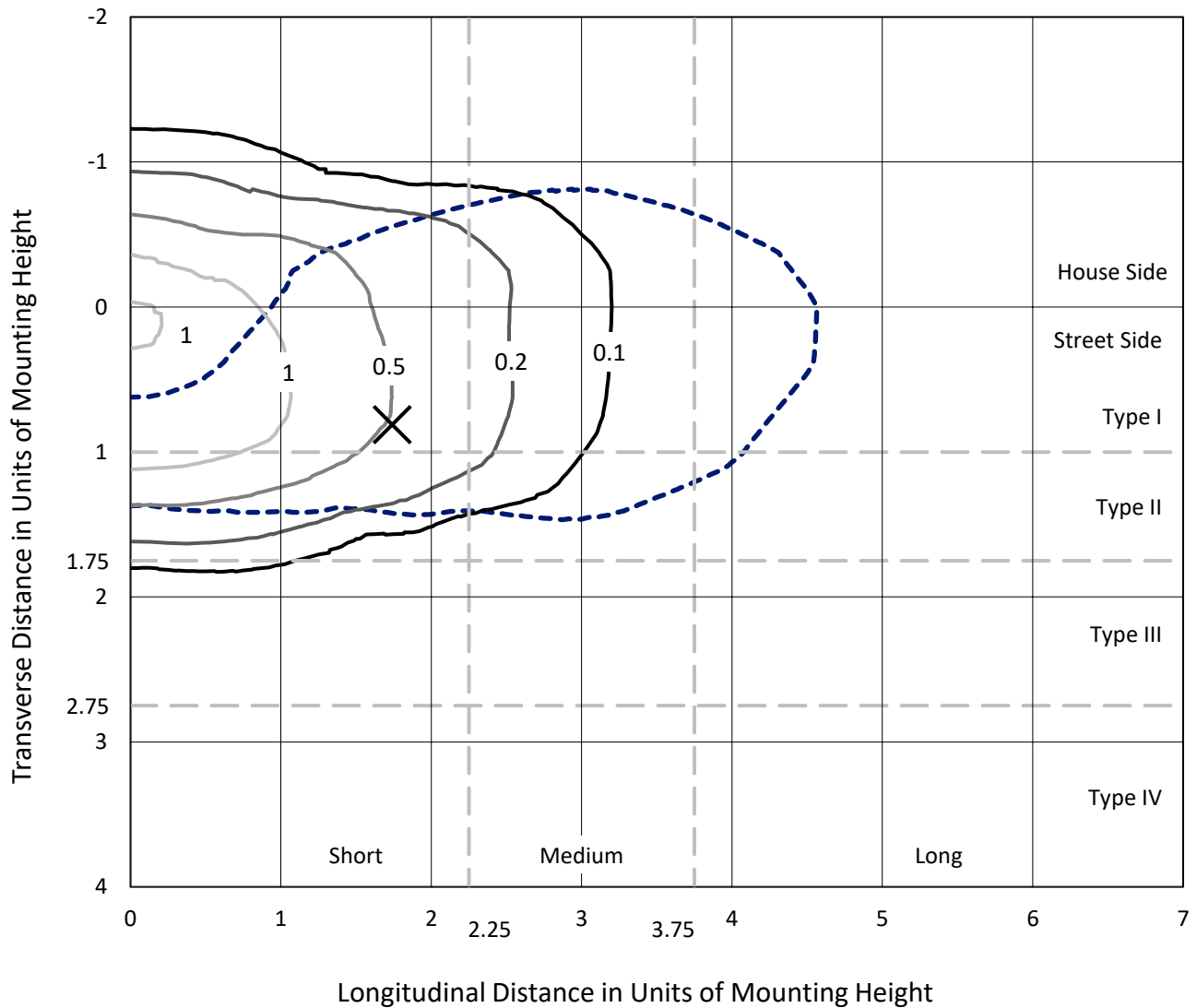
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

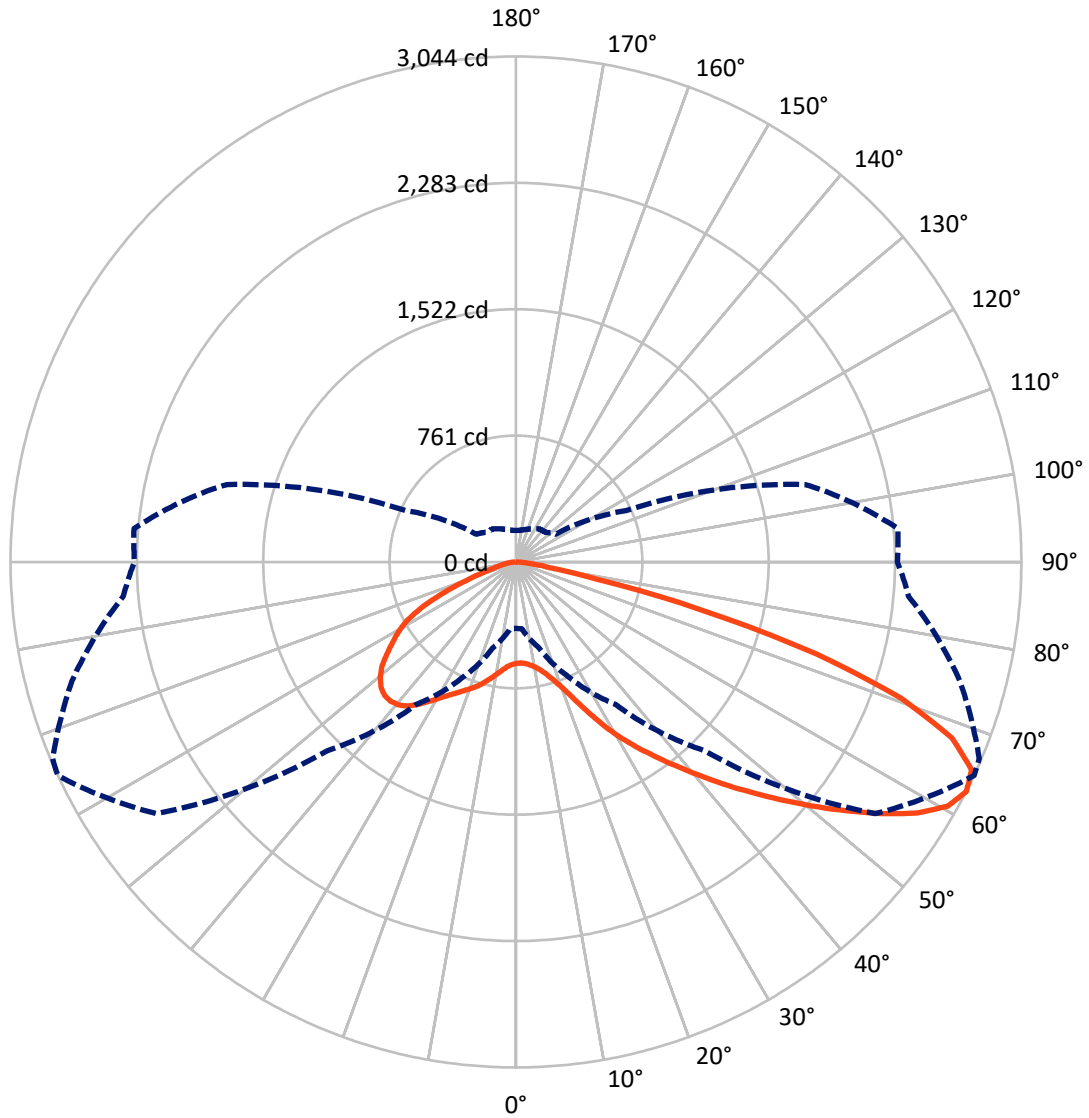
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.3	0.0	1746.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3787.7	0.0	3787.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	5534.0	0.0	5534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.1
10°-20°	206.2	3.7
20°-30°	418.0	7.6
30°-40°	723.4	13.1
40°-50°	1094.7	19.8
50°-60°	1283.5	23.2
60°-70°	1076.1	19.4
70°-80°	594.1	10.7
80°-90°	77.2	1.4
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°	5534.0	100.0
0°-180°	5534.0	100.0

Coefficient of Utilization



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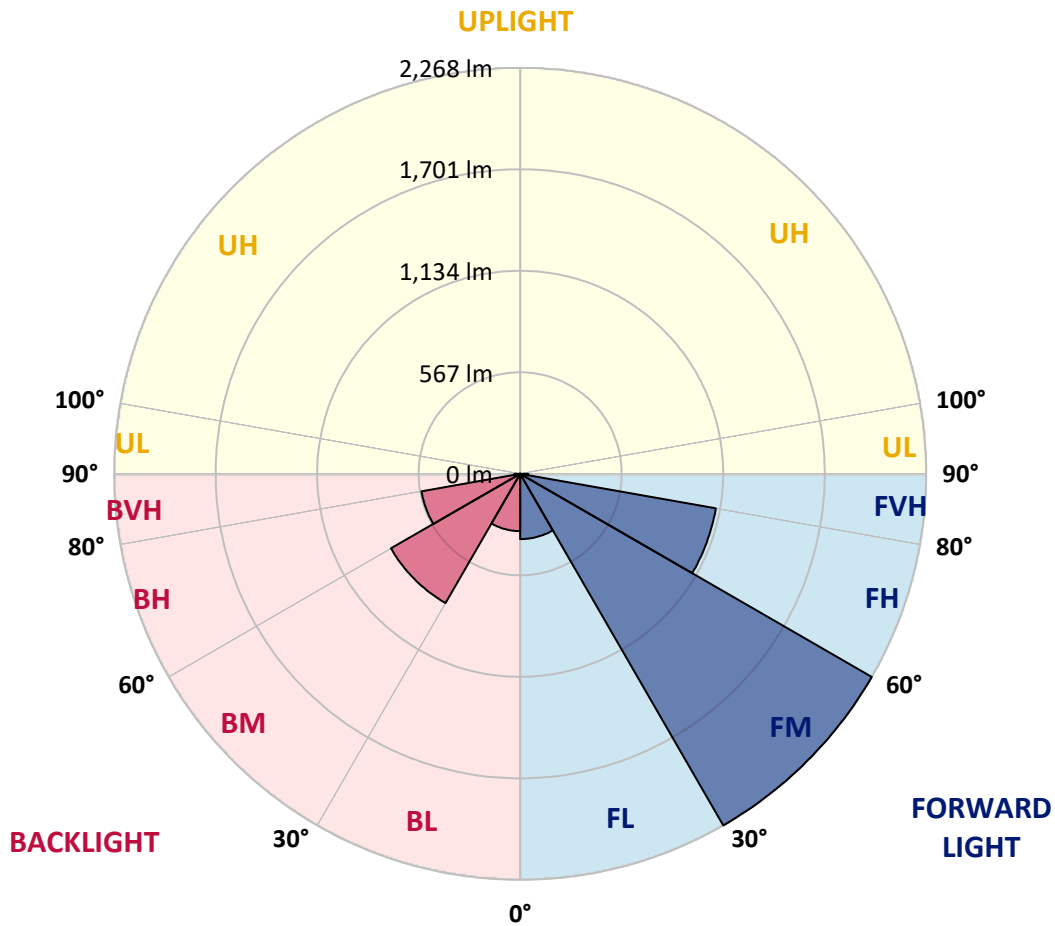
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.8	6.6			
FM (30°-60°)	2268.0	41.0			
FH (60°-80°)	1110.0	20.1			G1/1800
FVH (80°-90°)	45.0	0.8			G1/100
BL (0°-30°)	320.2	5.8	B1/500		
BM (30°-60°)	833.7	15.1	B1/1000		
BH (60°-80°)	560.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	32.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8
2.5°	605.8	604.1	605.5	605.5	606.1	605.8	607.8	608.4	609.2	611.0
5°	599.8	599.5	602.1	604.4	606.7	608.7	611.3	615.0	615.6	617.6
7.5°	597.8	596.0	600.1	602.9	608.4	613.3	620.2	626.5	629.1	629.9
10°	613.3	610.4	614.1	615.9	620.4	625.3	633.4	643.4	646.3	649.7
12.5°	639.7	636.5	642.0	644.6	648.9	653.2	658.6	668.4	669.8	676.1
15°	675.9	672.1	675.6	678.7	685.9	689.9	695.4	704.9	704.9	709.7
17.5°	725.0	720.1	722.7	723.8	728.4	734.4	743.6	751.9	756.2	754.5
20°	798.2	792.1	792.1	786.4	784.7	789.6	801.6	813.1	817.7	808.8
22.5°	908.1	899.5	894.6	875.1	867.4	867.9	880.0	894.1	897.8	882.0
25°	1048.0	1034.5	1027.9	999.1	981.6	966.4	975.9	994.0	999.1	979.6
27.5°	1187.8	1188.6	1182.3	1147.9	1118.9	1091.0	1086.1	1105.1	1110.5	1088.4
30°	1383.9	1363.5	1351.4	1310.1	1268.7	1229.7	1209.6	1217.3	1218.8	1192.4
32.5°	1553.0	1547.8	1522.0	1485.8	1432.7	1371.5	1337.9	1325.6	1323.3	1285.7
35°	1745.6	1742.8	1715.5	1672.4	1615.0	1530.0	1469.4	1434.1	1431.2	1378.4
37.5°	1941.4	1941.4	1914.7	1867.7	1808.2	1702.0	1609.8	1553.8	1544.7	1475.7
40°	2097.6	2088.2	2093.0	2073.2	2005.2	1892.3	1765.7	1684.5	1672.1	1589.4
42.5°	2186.3	2183.2	2212.5	2234.6	2206.7	2116.6	1937.4	1826.0	1808.8	1714.6
45°	2206.2	2202.7	2255.0	2335.9	2375.0	2337.9	2124.0	1975.0	1954.1	1845.5
47.5°	2160.5	2153.6	2230.3	2358.0	2483.2	2548.4	2326.2	2136.7	2106.2	1973.0
50°	2023.3	2016.7	2132.7	2302.3	2519.7	2691.4	2545.5	2308.1	2261.6	2109.7
52.5°	1725.0	1728.1	1909.9	2143.0	2471.7	2780.4	2734.4	2488.7	2432.7	2249.5
55°	1343.7	1350.6	1573.9	1830.6	2279.9	2766.9	2863.4	2674.7	2619.0	2381.0
57.5°	962.1	992.5	1201.8	1455.9	1911.6	2553.0	2891.5	2851.6	2797.6	2524.6
60°	623.6	629.1	844.4	1100.5	1455.7	2172.9	2834.4	2985.7	2943.5	2671.0
62.5°	399.7	403.4	534.6	769.7	1047.7	1607.5	2642.0	3043.9	3031.0	2767.7
65°	293.7	290.8	359.2	508.8	705.7	991.4	2268.5	3015.8	3041.4	2828.3
67.5°	245.2	241.2	274.8	352.3	520.0	563.0	1678.4	2832.9	2926.5	2821.4
70°	223.4	219.9	240.3	261.6	405.7	377.0	846.1	2462.8	2607.0	2743.1
72.5°	189.2	183.2	211.0	232.3	315.5	289.1	349.7	1891.8	2067.5	2491.8
75°	146.7	142.7	166.5	204.4	237.2	225.7	221.1	1148.7	1340.5	1927.1
77.5°	116.3	110.8	132.6	159.3	213.3	170.3	161.1	494.7	684.8	1230.3
80°	87.6	82.7	100.8	126.0	163.9	128.3	104.2	201.8	258.1	623.3
82.5°	62.3	58.0	70.3	92.4	110.3	115.1	64.0	113.1	127.2	240.3
85°	39.9	37.3	47.1	58.0	70.1	74.1	39.0	59.1	64.9	99.1
87.5°	21.8	17.8	25.3	27.0	32.4	29.6	18.7	21.5	23.3	35.9
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°
609.8	0°	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8	609.8
611.0	2.5°	612.1	613.0	615.9	616.7	618.7	621.3	623.0	624.8	624.8	626.5
620.2	5°	620.4	622.5	628.5	631.6	636.8	642.0	645.1	648.9	651.2	652.3
634.8	7.5°	636.5	639.7	648.3	653.8	662.7	669.8	674.7	679.9	681.0	684.2
655.2	10°	658.3	662.1	671.8	682.2	692.8	701.7	706.3	710.0	711.5	712.0
681.3	12.5°	683.3	688.8	701.4	714.0	725.2	733.0	734.1	733.3	729.3	725.8
713.5	15°	714.0	718.9	733.0	746.8	757.7	759.1	751.9	747.3	742.5	741.6
749.4	17.5°	750.8	753.4	766.3	779.8	780.7	775.8	765.1	760.8	756.2	753.1
796.2	20°	793.6	792.7	801.9	807.6	801.6	786.7	770.6	763.4	758.8	755.1
853.6	22.5°	844.7	838.1	836.9	835.5	819.4	788.1	766.3	757.1	749.9	744.8
933.7	25°	919.0	893.8	876.3	866.5	830.3	780.4	752.5	732.1	718.6	709.7
1031.6	27.5°	1012.1	969.6	925.4	901.5	830.3	764.6	719.2	686.2	664.1	654.9
1126.3	30°	1100.8	1056.3	991.1	943.7	828.3	738.7	665.5	619.6	593.7	584.6
1207.3	32.5°	1176.6	1128.1	1060.9	990.0	823.4	696.8	598.9	548.1	523.1	512.2
1287.4	35°	1246.9	1195.2	1130.9	1040.8	810.5	635.4	525.7	486.9	459.1	441.6
1368.9	37.5°	1319.0	1257.5	1197.3	1086.7	787.3	563.6	469.4	436.4	403.7	380.1
1455.7	40°	1397.4	1323.9	1268.2	1114.0	749.1	495.3	425.8	395.6	360.9	335.9
1555.6	42.5°	1489.0	1403.4	1347.1	1128.1	696.8	446.7	397.4	367.8	335.1	314.7
1662.7	45°	1584.6	1491.0	1419.2	1127.8	638.5	424.1	388.2	358.9	322.7	301.5
1772.6	47.5°	1684.8	1582.6	1481.5	1109.4	588.0	427.2	383.0	339.7	299.7	279.1
1883.7	50°	1785.3	1682.8	1541.8	1074.9	566.5	420.3	363.8	312.7	265.6	246.9
1988.0	52.5°	1884.9	1789.3	1593.8	1025.8	544.6	394.8	339.1	277.6	251.5	238.6
2095.6	55°	1985.1	1894.6	1650.3	954.4	490.1	364.9	297.7	264.4	240.3	228.5
2201.0	57.5°	2085.6	2016.4	1704.0	882.9	421.5	328.2	275.1	248.4	229.1	219.1
2289.1	60°	2190.1	2155.6	1759.4	817.1	353.7	281.1	258.4	235.4	215.9	204.7
2373.8	62.5°	2297.7	2308.9	1802.8	732.4	291.4	252.4	243.5	219.9	201.0	190.4
2443.9	65°	2406.3	2456.8	1831.2	615.0	236.3	225.1	227.4	203.0	183.8	174.6
2495.3	67.5°	2488.1	2563.3	1823.2	465.4	193.8	199.3	207.3	185.2	167.1	159.9
2487.0	70°	2497.3	2550.7	1743.9	318.7	162.2	174.0	184.9	167.7	149.0	143.8
2369.8	72.5°	2375.0	2378.4	1523.1	208.2	137.2	152.7	161.4	149.9	131.8	126.6
2073.2	75°	2054.3	1967.0	1118.3	137.2	114.8	131.2	139.2	131.2	113.7	114.8
1551.3	77.5°	1556.4	1393.1	679.0	97.6	95.9	110.3	121.2	115.4	100.5	112.8
780.1	80°	801.9	753.7	302.9	72.9	75.8	88.1	99.6	92.2	79.5	75.8
174.3	82.5°	183.8	213.6	119.4	52.3	54.8	63.5	76.1	69.2	57.1	48.2
72.6	85°	64.3	70.3	52.8	32.7	32.2	39.6	51.7	46.2	38.8	31.0
30.7	87.5°	20.4	26.7	19.8	13.2	13.8	17.8	23.8	21.8	18.1	11.8
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>
609.8
626.5
652.9
683.0
710.6
725.8
741.6
753.4
755.4
746.5
713.2
659.5
590.0
517.7
447.3
386.5
340.8
318.7
304.9
281.9
248.1
238.6
227.4
217.3
203.8
190.1
174.3
160.2
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126.3
110.8
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