

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: P945434

Luminaire Tested: **GALN-SB1B-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945434
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-SB1B-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5460 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

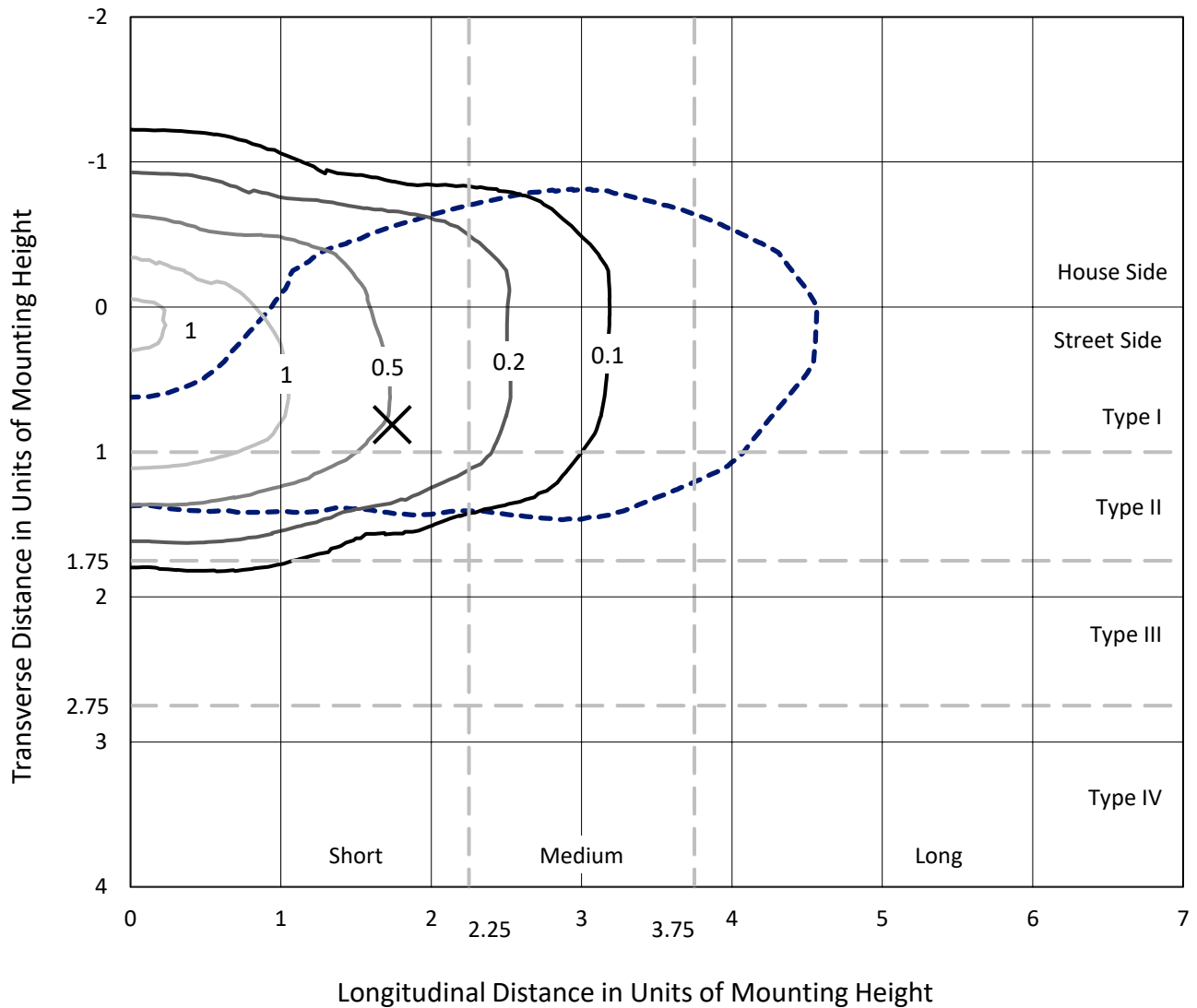
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

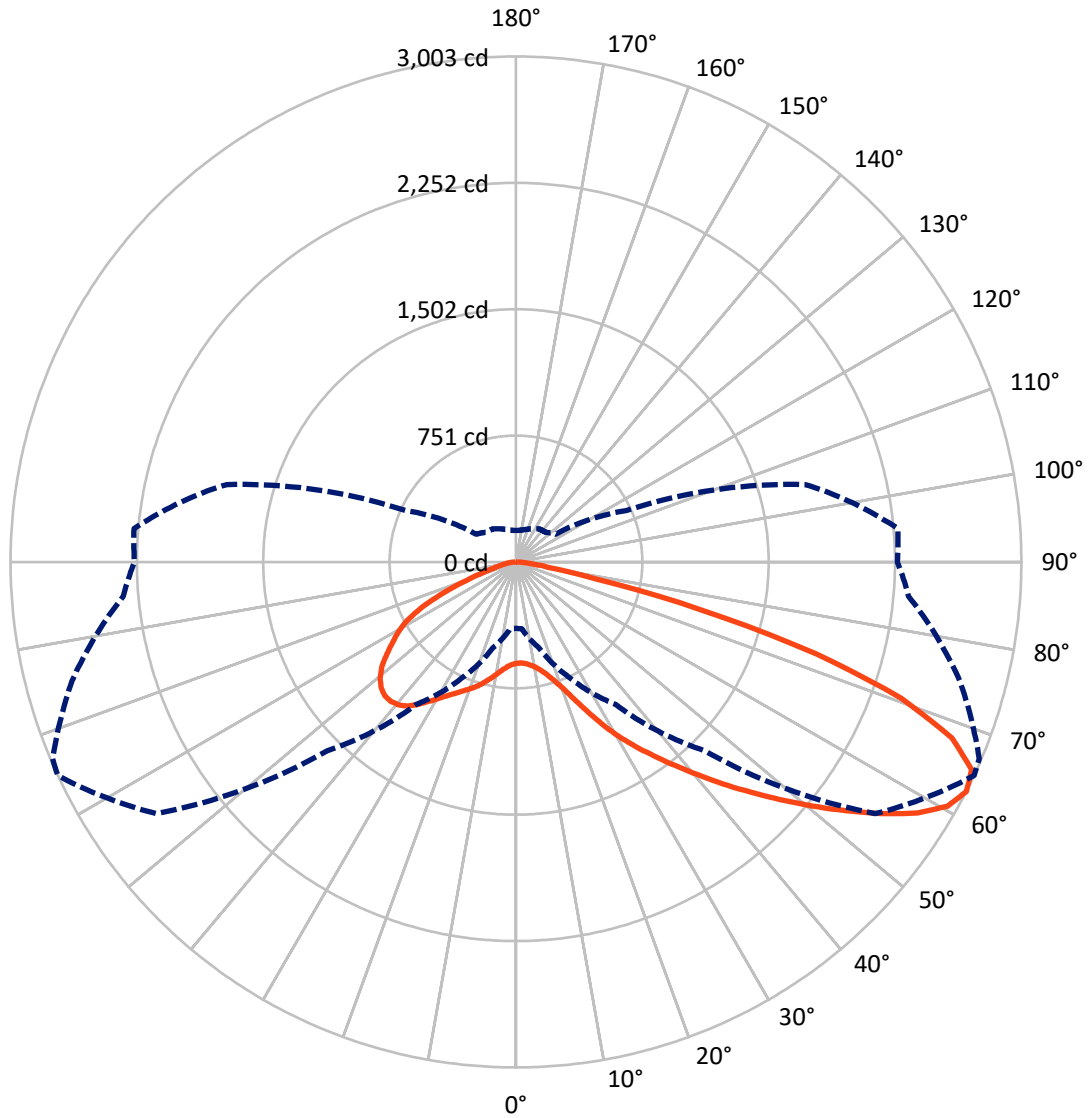
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type 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	1722.9	0.0	1722.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3737.1	0.0	3737.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	5460.0	0.0	5460.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.1
10°-20°	203.4	3.7
20°-30°	412.4	7.6
30°-40°	713.7	13.1
40°-50°	1080.1	19.8
50°-60°	1266.4	23.2
60°-70°	1061.7	19.4
70°-80°	586.1	10.7
80°-90°	76.1	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°	5460.0	100.0
0°-180°	5460.0	100.0



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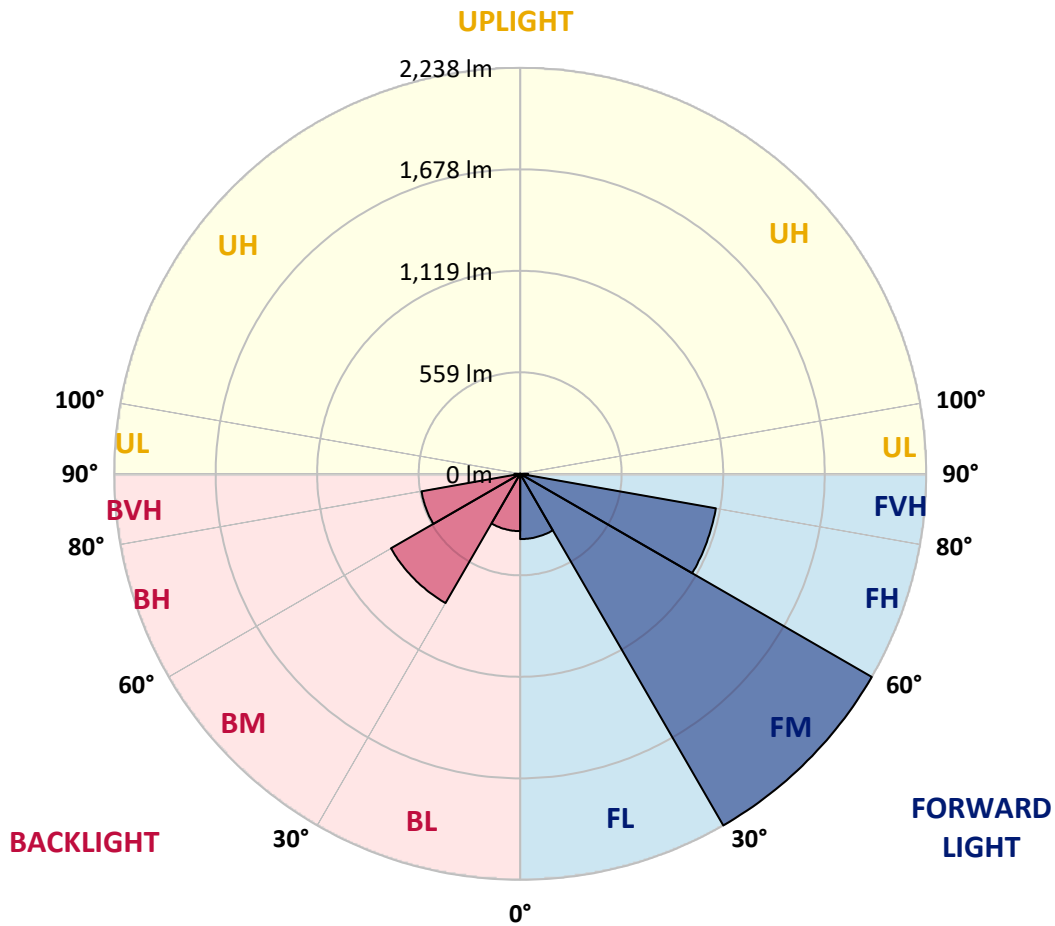
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.9	6.6			
FM (30°-60°)	2237.7	41.0			
FH (60°-80°)	1095.1	20.1			G1/1800
FVH (80°-90°)	44.4	0.8			G1/100
BL (0°-30°)	316.0	5.8	B1/500		
BM (30°-60°)	822.5	15.1	B1/1000		
BH (60°-80°)	552.7	10.1	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
2.5°	597.7	596.0	597.4	597.4	598.0	597.7	599.7	600.3	601.1	602.8
5°	591.8	591.5	594.0	596.3	598.6	600.5	603.1	606.8	607.3	609.3
7.5°	589.8	588.1	592.0	594.9	600.3	605.1	611.9	618.1	620.6	621.5
10°	605.1	602.2	605.9	607.6	612.1	617.0	624.9	634.8	637.6	641.0
12.5°	631.1	628.0	633.4	635.9	640.2	644.4	649.8	659.5	660.9	667.1
15°	666.8	663.1	666.5	669.7	676.7	680.7	686.1	695.4	695.4	700.2
17.5°	715.3	710.4	713.0	714.1	718.7	724.6	733.7	741.9	746.1	744.4
20°	787.5	781.5	781.5	775.9	774.2	779.0	790.9	802.2	806.8	798.0
22.5°	896.0	887.5	882.7	863.4	855.8	856.3	868.2	882.1	885.8	870.2
25°	1033.9	1020.6	1014.1	985.8	968.5	953.5	962.8	980.7	985.8	966.5
27.5°	1171.9	1172.7	1166.5	1132.5	1103.9	1076.4	1071.6	1090.3	1095.7	1073.9
30°	1365.4	1345.3	1333.4	1292.6	1251.8	1213.3	1193.4	1201.1	1202.5	1176.4
32.5°	1532.2	1527.1	1501.6	1465.9	1413.5	1353.2	1320.0	1307.9	1305.6	1268.5
35°	1722.3	1719.5	1692.5	1650.1	1593.4	1509.6	1449.8	1414.9	1412.1	1360.0
37.5°	1915.5	1915.5	1889.1	1842.7	1784.0	1679.2	1588.3	1533.1	1524.0	1456.0
40°	2069.6	2060.2	2065.0	2045.5	1978.4	1867.0	1742.1	1662.0	1649.8	1568.2
42.5°	2157.1	2154.0	2182.9	2204.7	2177.2	2088.3	1911.5	1801.6	1784.6	1691.7
45°	2176.7	2173.3	2224.8	2304.7	2343.2	2306.7	2095.6	1948.6	1927.9	1820.9
47.5°	2131.6	2124.8	2200.5	2326.5	2450.0	2514.3	2295.1	2108.1	2078.1	1946.6
50°	1996.2	1989.7	2104.1	2271.6	2486.0	2655.4	2511.5	2277.2	2231.3	2081.5
52.5°	1701.9	1705.0	1884.3	2114.3	2438.7	2743.2	2697.9	2455.4	2400.2	2219.4
55°	1325.7	1332.5	1552.9	1806.1	2249.5	2729.9	2825.1	2639.0	2584.0	2349.2
57.5°	949.2	979.3	1185.8	1436.5	1886.0	2518.8	2852.8	2813.5	2760.2	2490.8
60°	615.3	620.6	833.1	1085.8	1436.2	2143.8	2796.5	2945.7	2904.1	2635.3
62.5°	394.3	398.0	527.5	759.5	1033.7	1586.0	2606.7	3003.2	2990.5	2730.7
65°	289.8	287.0	354.4	502.0	696.3	978.1	2238.1	2975.5	3000.7	2790.5
67.5°	241.9	237.9	271.1	347.6	513.0	555.5	1656.0	2795.0	2887.4	2783.7
70°	220.4	217.0	237.1	258.1	400.3	371.9	834.8	2429.9	2572.1	2706.4
72.5°	186.7	180.7	208.2	229.2	311.3	285.3	345.0	1866.5	2039.8	2458.5
75°	144.8	140.8	164.3	201.7	234.0	222.7	218.1	1133.4	1322.6	1901.3
77.5°	114.7	109.3	130.9	157.2	210.5	168.0	158.9	488.1	675.6	1213.8
80°	86.4	81.6	99.4	124.4	161.7	126.6	102.8	199.1	254.7	615.0
82.5°	61.5	57.2	69.4	91.2	108.8	113.6	63.2	111.6	125.5	237.1
85°	39.4	36.8	46.5	57.2	69.1	73.1	38.5	58.4	64.0	97.7
87.5°	21.5	17.6	24.9	26.6	32.0	29.2	18.4	21.2	22.9	35.4
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°
601.7	0°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
602.8	2.5°	603.9	604.8	607.6	608.5	610.4	613.0	614.7	616.4	616.4	618.1
611.9	5°	612.1	614.1	620.1	623.2	628.3	633.4	636.5	640.2	642.5	643.6
626.3	7.5°	628.0	631.1	639.6	645.0	653.8	660.9	665.7	670.8	671.9	675.0
646.4	10°	649.5	653.2	662.9	673.1	683.5	692.3	696.8	700.5	701.9	702.5
672.2	12.5°	674.2	679.6	692.0	704.5	715.5	723.2	724.3	723.5	719.5	716.1
703.9	15°	704.5	709.3	723.2	736.8	747.6	749.0	741.9	737.4	732.5	731.7
739.3	17.5°	740.8	743.3	756.1	769.4	770.2	765.4	754.9	750.7	746.1	743.0
785.5	20°	783.0	782.1	791.2	796.8	790.9	776.2	760.3	753.2	748.7	745.0
842.2	22.5°	833.4	826.9	825.7	824.3	808.5	777.6	756.1	747.0	739.9	734.8
921.2	25°	906.8	881.8	864.5	854.9	819.2	769.9	742.5	722.3	709.0	700.2
1017.8	27.5°	998.5	956.6	913.0	889.5	819.2	754.4	709.6	677.0	655.2	646.1
1111.3	30°	1086.1	1042.2	977.9	931.1	817.2	728.9	656.6	611.3	585.8	576.7
1191.2	32.5°	1160.8	1113.0	1046.7	976.7	812.4	687.5	590.9	540.8	516.1	505.4
1270.2	35°	1230.2	1179.3	1115.8	1026.9	799.7	626.9	518.7	480.4	453.0	435.7
1350.6	37.5°	1301.3	1240.7	1181.2	1072.2	776.7	556.1	463.1	430.6	398.3	375.1
1436.2	40°	1378.7	1306.2	1251.2	1099.1	739.1	488.6	420.1	390.3	356.1	331.4
1534.8	42.5°	1469.0	1384.6	1329.1	1113.0	687.5	440.8	392.0	362.9	330.6	310.5
1640.4	45°	1563.4	1471.0	1400.2	1112.7	630.0	418.4	383.0	354.1	318.4	297.4
1748.9	47.5°	1662.2	1561.4	1461.7	1094.6	580.1	421.5	377.9	335.1	295.7	275.3
1858.5	50°	1761.4	1660.3	1521.2	1060.6	558.9	414.7	358.9	308.5	262.0	243.6
1961.4	52.5°	1859.7	1765.3	1572.4	1012.1	537.4	389.5	334.5	273.9	248.1	235.4
2067.6	55°	1958.5	1869.3	1628.2	941.6	483.5	360.0	293.8	260.9	237.1	225.5
2171.6	57.5°	2057.7	1989.4	1681.2	871.1	415.8	323.8	271.4	245.0	226.1	216.1
2258.5	60°	2160.8	2126.8	1735.9	806.2	349.0	277.3	254.9	232.3	213.0	202.0
2342.1	62.5°	2267.0	2278.1	1778.7	722.6	287.5	249.0	240.2	217.0	198.3	187.8
2411.2	65°	2374.1	2424.0	1806.7	606.8	233.1	222.1	224.4	200.3	181.3	172.2
2461.9	67.5°	2454.8	2529.0	1798.8	459.2	191.2	196.6	204.5	182.7	164.9	157.8
2453.7	70°	2463.9	2516.6	1720.6	314.4	160.0	171.7	182.4	165.4	147.0	141.9
2338.1	72.5°	2343.2	2346.6	1502.8	205.4	135.4	150.7	159.2	147.9	130.0	124.9
2045.5	75°	2026.8	1940.7	1103.3	135.4	113.3	129.5	137.4	129.5	112.2	113.3
1530.5	77.5°	1535.6	1374.4	669.9	96.3	94.6	108.8	119.5	113.9	99.1	111.3
769.6	80°	791.2	743.6	298.9	72.0	74.8	87.0	98.3	90.9	78.5	74.8
171.9	82.5°	181.3	210.8	117.8	51.6	54.1	62.6	75.1	68.3	56.4	47.6
71.7	85°	63.5	69.4	52.1	32.3	31.7	39.1	51.0	45.6	38.2	30.6
30.3	87.5°	20.1	26.3	19.5	13.0	13.6	17.6	23.5	21.5	17.8	11.6
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>
601.7
618.1
644.2
673.9
701.1
716.1
731.7
743.3
745.3
736.5
703.6
650.7
582.1
510.7
441.3
381.3
336.2
314.4
300.8
278.2
244.7
235.4
224.4
214.4
201.1
187.5
171.9
158.1
142.2
124.6
109.3
98.0
68.3
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32.3
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