

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: P945308

Luminaire Tested: **GALN-SB1B-750-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945308  
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-750-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6039 lumens  
Efficiency: N/A  
Efficacy: 151.7 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

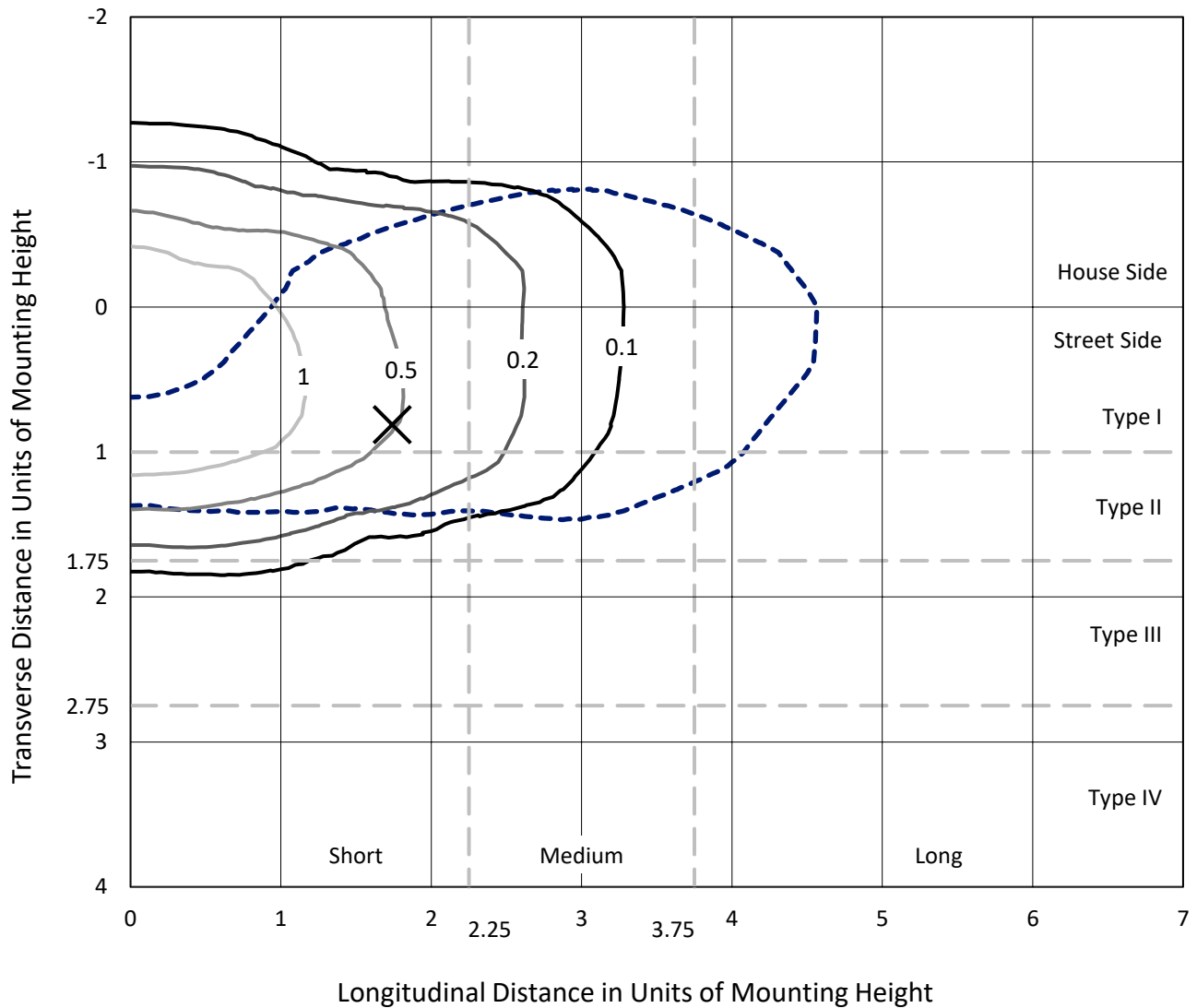
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

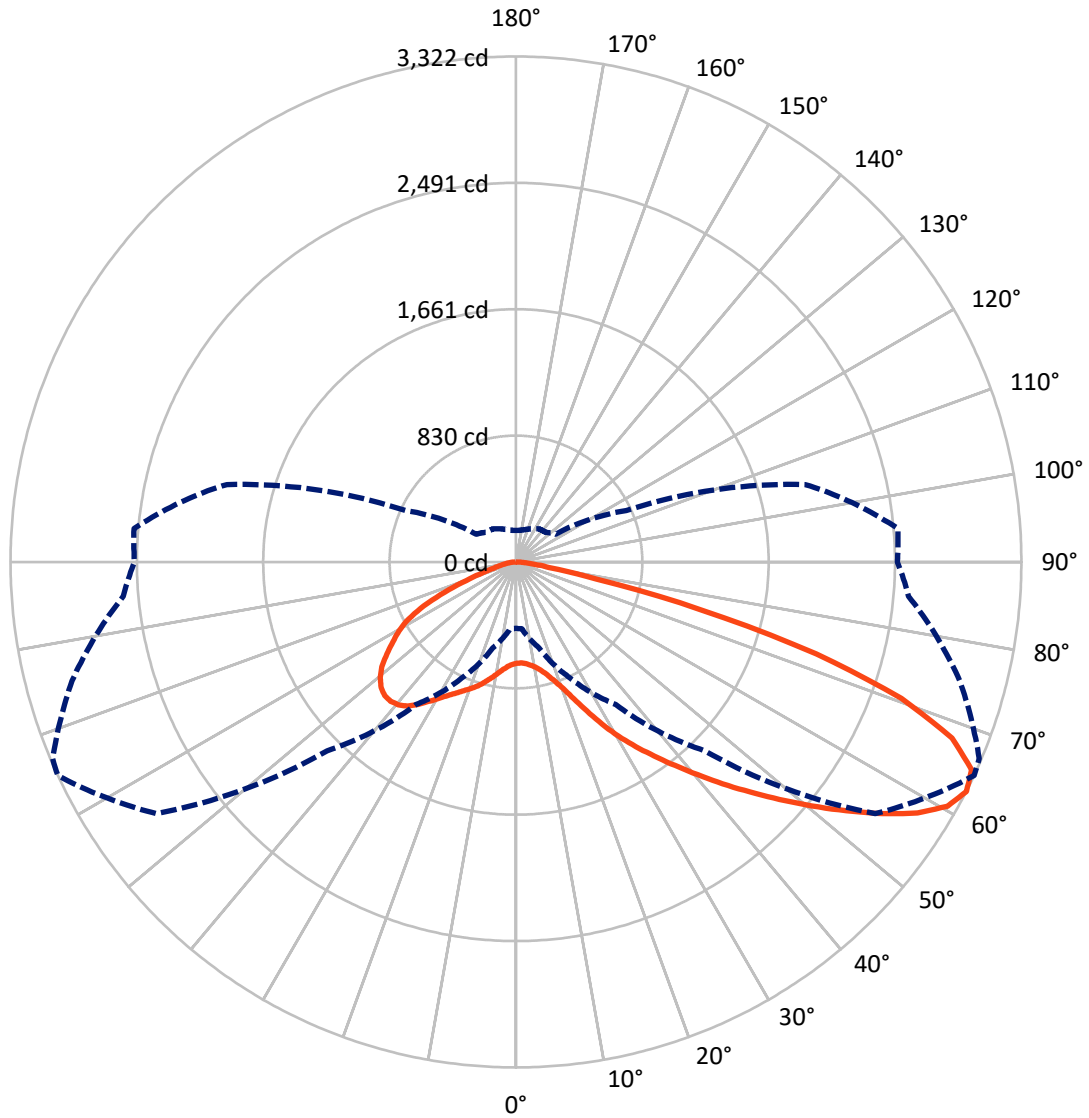
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
<b>House Side</b>	Lumens	1905.6	0.0	1905.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4133.4	0.0	4133.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6039.0	0.0	6039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	1.1
10°-20°	225.0	3.7
20°-30°	456.2	7.6
30°-40°	789.4	13.1
40°-50°	1194.6	19.8
50°-60°	1400.6	23.2
60°-70°	1174.3	19.4
70°-80°	648.3	10.7
80°-90°	84.2	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°	6039.0	100.0
0°-180°	6039.0	100.0

**Coefficient of Utilization**



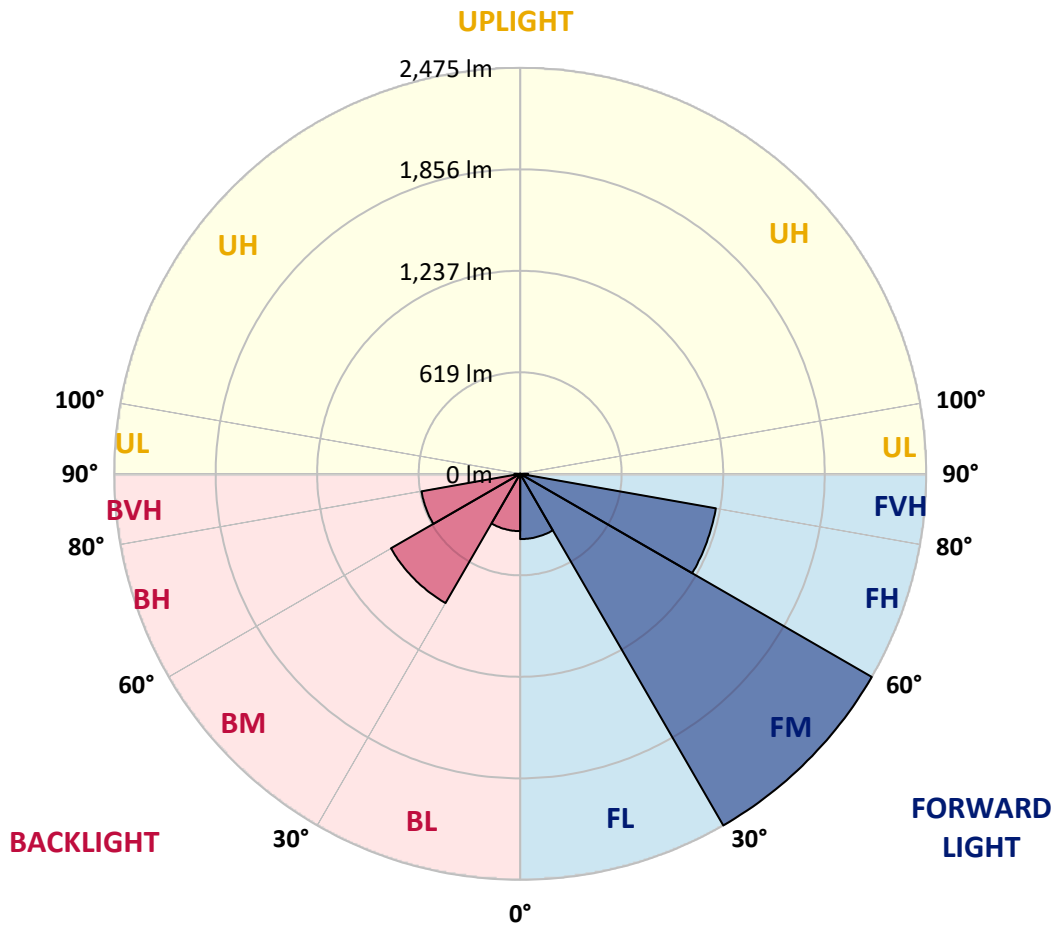
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.1	6.6			
FM (30°-60°)	2475.0	41.0			
FH (60°-80°)	1211.2	20.1			G1/1800
FVH (80°-90°)	49.1	0.8			G1/100
BL (0°-30°)	349.5	5.8	B1/500		
BM (30°-60°)	909.7	15.1	B1/1000		
BH (60°-80°)	611.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	35.1	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°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
2.5°	661.1	659.2	660.8	660.8	661.4	661.1	663.3	663.9	664.8	666.7
5°	654.5	654.2	657.0	659.5	662.0	664.2	667.0	671.1	671.7	673.9
7.5°	652.3	650.4	654.8	658.0	663.9	669.2	676.8	683.6	686.5	687.4
10°	669.2	666.1	670.2	672.1	677.1	682.4	691.2	702.1	705.3	709.0
12.5°	698.1	694.6	700.6	703.4	708.1	712.8	718.7	729.4	731.0	737.8
15°	737.5	733.5	737.2	740.7	748.5	752.9	758.8	769.2	769.2	774.5
17.5°	791.1	785.8	788.6	789.9	794.9	801.4	811.5	820.6	825.3	823.4
20°	871.0	864.4	864.4	858.2	856.3	861.6	874.8	887.3	892.3	882.6
22.5°	991.0	981.6	976.3	955.0	946.5	947.1	960.3	975.6	979.7	962.5
25°	1143.6	1128.9	1121.7	1090.3	1071.2	1054.6	1064.9	1084.7	1090.3	1069.0
27.5°	1296.2	1297.1	1290.2	1252.6	1221.0	1190.6	1185.3	1205.9	1211.9	1187.8
30°	1510.2	1487.9	1474.8	1429.6	1384.5	1341.9	1320.0	1328.4	1330.0	1301.2
32.5°	1694.7	1689.1	1660.9	1621.4	1563.4	1496.7	1460.0	1446.6	1444.0	1403.0
35°	1904.9	1901.8	1872.0	1825.0	1762.4	1669.6	1603.5	1565.0	1561.9	1504.2
37.5°	2118.6	2118.6	2089.5	2038.1	1973.2	1857.3	1756.7	1695.6	1685.6	1610.4
40°	2289.0	2278.7	2284.0	2262.4	2188.2	2065.0	1926.9	1838.2	1824.7	1734.5
42.5°	2385.9	2382.4	2414.4	2438.5	2408.1	2309.7	2114.2	1992.7	1973.9	1871.1
45°	2407.5	2403.7	2460.7	2549.1	2591.7	2551.3	2317.9	2155.3	2132.4	2014.0
47.5°	2357.7	2350.1	2433.8	2573.2	2709.8	2780.9	2538.4	2331.7	2298.4	2153.1
50°	2207.9	2200.7	2327.3	2512.4	2749.6	2937.0	2777.8	2518.7	2467.9	2302.2
52.5°	1882.4	1885.8	2084.1	2338.5	2697.3	3034.1	2984.0	2715.8	2654.7	2454.8
55°	1466.3	1473.8	1717.6	1997.7	2488.0	3019.4	3124.6	2918.8	2858.0	2598.3
57.5°	1049.9	1083.1	1311.5	1588.8	2086.0	2786.0	3155.4	3111.8	3052.9	2754.9
60°	680.5	686.5	921.4	1200.9	1588.5	2371.1	3093.0	3258.1	3212.1	2914.7
62.5°	436.1	440.2	583.4	840.0	1143.3	1754.2	2883.1	3321.7	3307.6	3020.3
65°	320.5	317.4	392.0	555.2	770.1	1081.9	2475.5	3291.0	3318.9	3086.4
67.5°	267.6	263.2	299.8	384.4	567.4	614.4	1831.6	3091.4	3193.6	3078.9
70°	243.8	240.0	262.2	285.4	442.7	411.4	923.3	2687.6	2844.9	2993.4
72.5°	206.5	199.9	230.3	253.5	344.3	315.5	381.6	2064.4	2256.1	2719.2
75°	160.1	155.7	181.7	223.1	258.8	246.3	241.2	1253.6	1462.8	2102.9
77.5°	126.9	120.9	144.7	173.9	232.8	185.8	175.8	539.8	747.2	1342.5
80°	95.6	90.2	110.0	137.5	178.9	140.0	113.7	220.3	281.7	680.2
82.5°	68.0	63.3	76.8	100.9	120.3	125.6	69.9	123.4	138.8	262.2
85°	43.6	40.7	51.4	63.3	76.4	80.8	42.6	64.5	70.8	108.1
87.5°	23.8	19.4	27.6	29.5	35.4	32.3	20.4	23.5	25.4	39.2
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°
665.5	0°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
666.7	2.5°	668.0	668.9	672.1	673.0	675.2	678.0	679.9	681.8	681.8	683.6
676.8	5°	677.1	679.3	685.8	689.3	694.9	700.6	704.0	708.1	710.6	711.8
692.7	7.5°	694.6	698.1	707.5	713.4	723.1	731.0	736.3	741.9	743.2	746.6
715.0	10°	718.4	722.5	733.1	744.4	756.0	765.7	770.7	774.8	776.4	777.0
743.5	12.5°	745.7	751.6	765.4	779.2	791.4	799.9	801.1	800.2	795.8	792.0
778.6	15°	779.2	784.5	799.9	814.9	826.8	828.4	820.6	815.5	810.2	809.3
817.7	17.5°	819.3	822.1	836.2	851.0	851.9	846.6	835.0	830.3	825.3	821.8
868.8	20°	866.0	865.1	875.1	881.3	874.8	858.5	840.9	833.1	828.1	824.0
931.5	22.5°	921.8	914.6	913.3	911.7	894.2	860.0	836.2	826.2	818.4	812.7
1018.9	25°	1002.9	975.3	956.2	945.6	906.1	851.6	821.2	798.9	784.2	774.5
1125.7	27.5°	1104.4	1058.0	1009.8	983.8	906.1	834.3	784.8	748.8	724.7	714.7
1229.1	30°	1201.2	1152.7	1081.5	1029.9	903.9	806.1	726.3	676.1	647.9	637.9
1317.5	32.5°	1283.9	1231.0	1157.7	1080.3	898.6	760.4	653.6	598.1	570.9	558.9
1404.9	35°	1360.7	1304.3	1234.1	1135.8	884.5	693.4	573.7	531.4	501.0	481.9
1493.9	37.5°	1439.3	1372.3	1306.5	1185.9	859.1	615.0	512.3	476.2	440.5	414.8
1588.5	40°	1524.9	1444.7	1383.9	1215.6	817.4	540.5	464.6	431.7	393.8	366.6
1697.5	42.5°	1624.8	1531.5	1470.1	1231.0	760.4	487.5	433.6	401.4	365.6	343.4
1814.4	45°	1729.2	1627.0	1548.7	1230.7	696.8	462.8	423.6	391.6	352.2	329.0
1934.4	47.5°	1838.5	1727.0	1616.7	1210.6	641.7	466.2	418.0	370.6	327.1	304.5
2055.6	50°	1948.2	1836.3	1682.5	1173.0	618.2	458.7	397.0	341.2	289.8	269.4
2169.4	52.5°	2056.9	1952.6	1739.2	1119.5	594.4	430.8	370.0	303.0	274.5	260.4
2286.9	55°	2166.2	2067.5	1800.9	1041.4	534.8	398.2	324.9	288.6	262.2	249.4
2401.8	57.5°	2275.9	2200.4	1859.5	963.4	459.9	358.1	300.2	271.0	250.0	239.1
2498.0	60°	2389.9	2352.3	1920.0	891.7	386.0	306.7	282.0	256.9	235.6	223.4
2590.5	62.5°	2507.4	2519.6	1967.3	799.3	318.0	275.4	265.7	240.0	219.3	207.7
2666.9	65°	2625.9	2681.0	1998.3	671.1	257.9	245.6	248.1	221.5	200.5	190.5
2723.0	67.5°	2715.1	2797.2	1989.5	507.9	211.5	217.4	226.2	202.1	182.3	174.5
2713.9	70°	2725.2	2783.5	1903.0	347.8	177.0	189.9	201.8	183.0	162.6	157.0
2586.1	72.5°	2591.7	2595.5	1662.1	227.2	149.8	166.7	176.1	163.5	143.8	138.2
2262.4	75°	2241.7	2146.5	1220.3	149.8	125.3	143.2	152.0	143.2	124.1	125.3
1692.8	77.5°	1698.5	1520.2	741.0	106.5	104.6	120.3	132.2	126.0	109.7	123.1
851.3	80°	875.1	822.4	330.5	79.6	82.7	96.2	108.7	100.6	86.8	82.7
190.2	82.5°	200.5	233.1	130.3	57.0	59.8	69.2	83.0	75.5	62.3	52.6
79.3	85°	70.2	76.8	57.6	35.7	35.1	43.2	56.4	50.4	42.3	33.8
33.5	87.5°	22.2	29.1	21.6	14.4	15.0	19.4	26.0	23.8	19.7	12.8
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>
665.5
683.6
712.5
745.4
775.4
792.0
809.3
822.1
824.3
814.6
778.3
719.7
643.9
564.9
488.1
421.7
371.9
347.8
332.7
307.7
270.7
260.4
248.1
237.2
222.5
207.4
190.2
174.8
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137.9
120.9
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75.5
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