

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: P945011

Luminaire Tested: **GALN-SB1A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

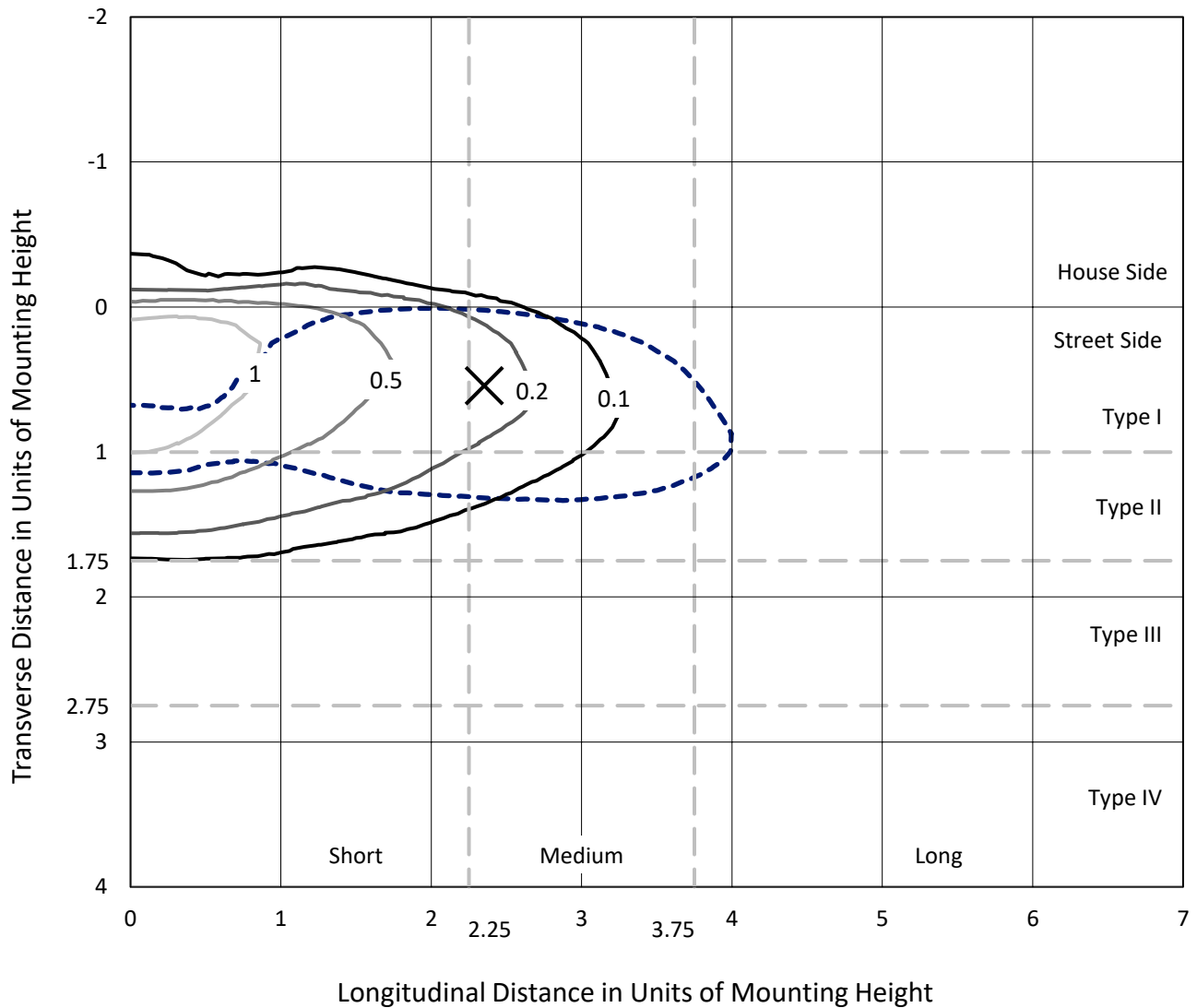
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

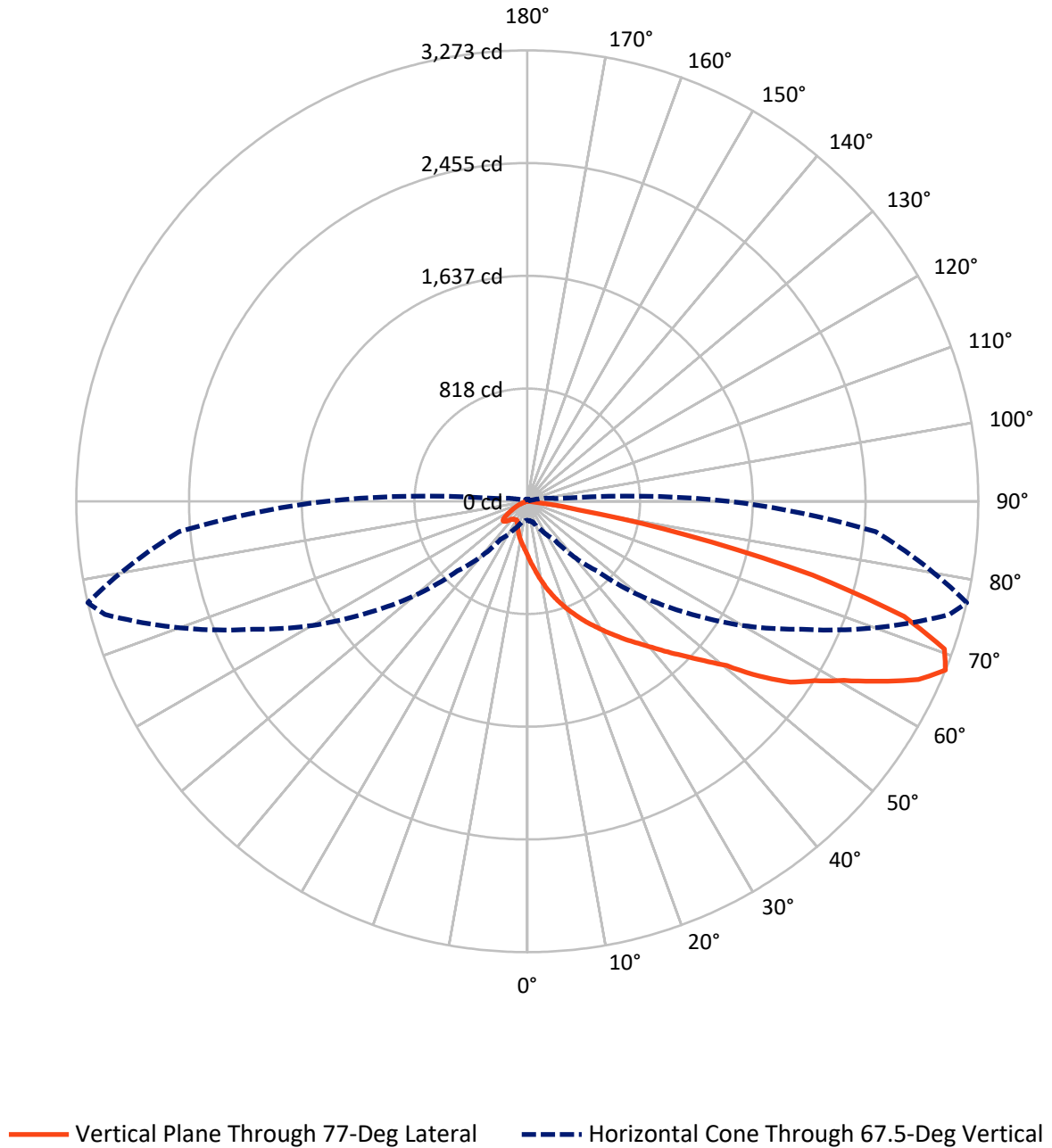
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.2	0.0	251.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3162.8	0.0	3162.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	3414.0	0.0	3414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.2
10°-20°	140.7	4.1
20°-30°	271.5	8.0
30°-40°	471.4	13.8
40°-50°	684.4	20.0
50°-60°	786.0	23.0
60°-70°	682.4	20.0
70°-80°	321.4	9.4
80°-90°	15.9	0.5
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°	3414.0	100.0
0°-180°	3414.0	100.0

Coefficient of Utilization



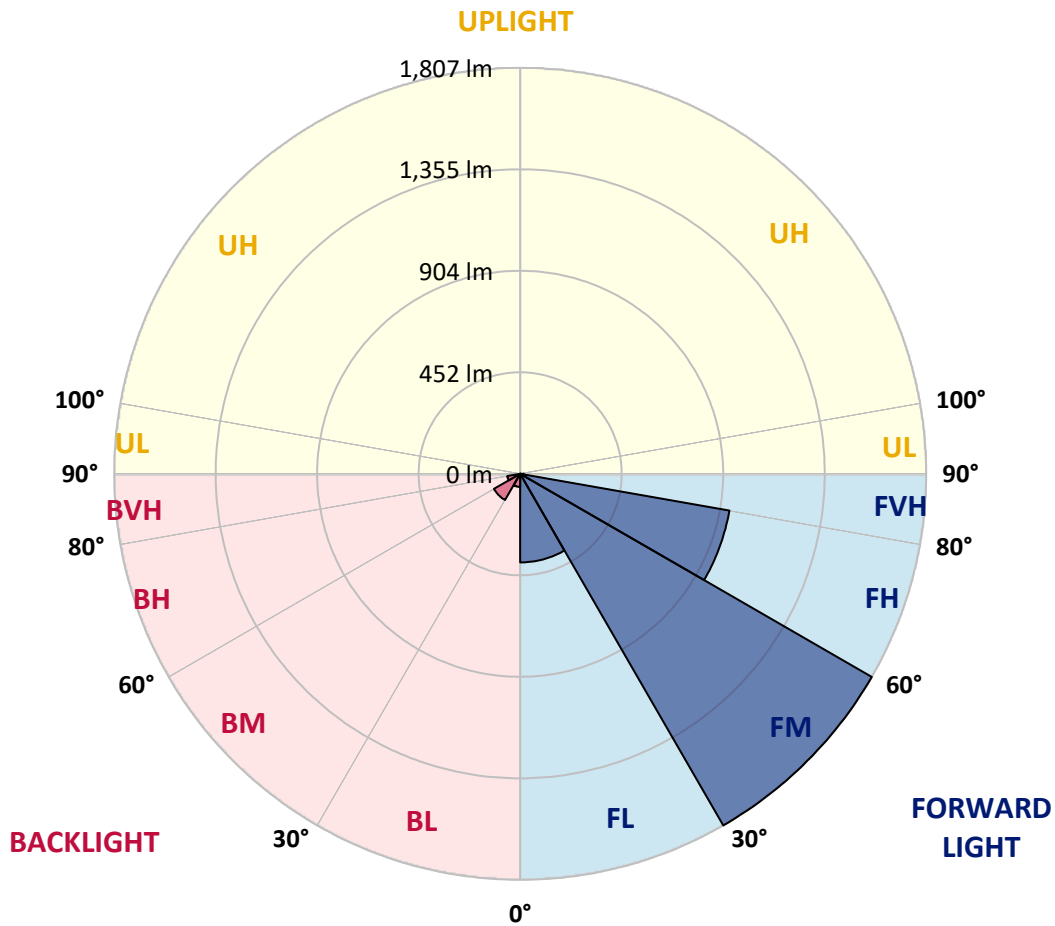
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.3	11.5			
FM (30°-60°)	1807.3	52.9			
FH (60°-80°)	945.7	27.7			G1/1800
FVH (80°-90°)	15.6	0.5			G1/100
BL (0°-30°)	58.2	1.7	B0/110		
BM (30°-60°)	134.6	3.9	B0/220		
BH (60°-80°)	58.1	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
2.5°	545.1	548.4	543.6	534.2	520.2	511.1	488.9	467.9	444.6	437.1
5°	664.4	667.4	661.9	651.7	633.0	615.2	586.0	542.1	496.5	481.9
7.5°	752.8	754.5	752.4	743.1	725.3	705.1	672.5	620.5	552.9	536.8
10°	816.4	821.9	821.3	817.7	805.8	789.5	754.7	695.6	616.1	595.3
12.5°	858.6	864.7	868.4	876.4	875.8	865.4	834.9	772.3	679.0	654.7
15°	870.9	877.5	891.2	909.9	926.4	931.7	910.3	847.6	748.4	717.2
17.5°	863.9	874.1	890.6	920.1	956.3	980.3	978.0	920.3	811.3	775.7
20°	879.4	889.1	902.1	926.9	969.1	1012.5	1029.9	989.8	873.9	836.6
22.5°	965.0	963.3	964.6	968.6	993.9	1036.9	1072.7	1053.0	935.8	897.6
25°	1100.7	1093.1	1080.1	1058.3	1051.9	1072.7	1110.0	1109.0	1001.1	960.1
27.5°	1256.3	1255.0	1224.7	1172.1	1142.5	1134.4	1152.2	1163.5	1065.7	1022.1
30°	1405.3	1408.7	1367.8	1309.3	1254.8	1223.2	1207.1	1215.2	1131.4	1088.8
32.5°	1535.1	1538.7	1494.2	1425.7	1358.3	1320.1	1286.2	1266.3	1203.1	1156.7
35°	1644.7	1648.3	1597.2	1521.5	1449.7	1415.1	1376.7	1322.2	1275.2	1231.9
37.5°	1742.6	1741.6	1673.1	1596.8	1526.2	1498.8	1478.7	1391.1	1349.4	1307.6
40°	1800.5	1805.0	1746.5	1662.3	1593.8	1573.9	1572.6	1476.6	1435.0	1394.5
42.5°	1817.5	1825.3	1782.9	1713.8	1651.7	1630.1	1663.4	1569.0	1534.7	1495.2
45°	1786.9	1794.6	1775.3	1727.4	1691.1	1677.1	1741.4	1664.8	1641.1	1602.1
47.5°	1697.9	1707.4	1712.1	1701.9	1701.5	1715.7	1811.3	1765.7	1767.4	1727.6
50°	1525.6	1541.7	1584.5	1620.5	1676.3	1746.2	1879.4	1875.1	1909.9	1875.6
52.5°	1212.2	1235.1	1382.7	1481.2	1606.5	1740.5	1954.2	2050.7	2159.9	2109.6
55°	974.1	974.1	1094.1	1278.6	1470.4	1702.8	1986.9	2164.7	2330.1	2318.2
57.5°	794.2	803.7	880.2	1043.3	1273.5	1612.9	2007.0	2236.4	2467.3	2458.6
60°	490.1	510.7	655.3	816.2	1049.4	1452.8	1994.3	2308.9	2633.7	2640.7
62.5°	276.0	283.7	348.1	587.2	816.0	1237.7	1897.0	2349.4	2846.5	2876.2
65°	190.6	194.4	219.2	365.5	565.6	985.4	1706.8	2324.2	3059.8	3119.8
67.5°	138.4	140.3	155.8	223.2	335.6	714.4	1408.7	2197.0	3172.8	3273.1
70°	106.4	107.7	118.9	146.7	198.2	441.0	1023.1	1944.0	3091.0	3210.7
72.5°	86.5	87.8	96.5	108.5	131.4	260.8	620.1	1578.8	2729.7	2859.0
75°	72.9	74.6	82.5	90.3	103.0	167.5	290.9	1099.4	2052.8	2137.6
77.5°	40.5	37.3	67.0	74.8	86.9	106.0	136.1	647.0	1149.7	1173.2
80°	25.2	26.1	53.2	60.2	66.8	53.4	62.3	249.1	398.6	378.6
82.5°	1.5	3.4	40.9	43.5	45.8	22.9	23.5	84.6	96.0	88.2
85°	0.0	0.0	18.7	15.1	15.9	6.6	6.8	19.7	12.9	14.0
87.5°	0.0	0.0	0.0	0.4	0.0	0.6	1.3	1.7	0.6	0.8
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°
393.7	0°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
413.8	2.5°	399.0	384.1	354.0	324.6	300.6	278.4	262.5	247.4	239.8	239.3
440.5	5°	411.1	379.9	319.7	266.5	223.7	189.3	167.1	151.2	143.1	140.3
473.4	7.5°	428.0	381.2	289.6	215.6	165.1	135.7	123.0	117.9	116.2	114.3
510.5	10°	449.4	384.1	262.7	173.6	130.2	115.3	110.2	108.1	106.8	105.6
552.3	12.5°	473.4	386.9	236.0	144.2	114.5	106.8	103.2	100.7	99.0	97.5
595.1	15°	496.7	388.6	208.2	123.6	106.4	100.3	96.5	93.7	91.4	89.7
637.1	17.5°	519.8	390.9	182.1	111.3	99.9	93.7	89.9	86.5	84.6	82.7
681.2	20°	545.5	390.5	157.5	102.6	93.3	87.1	83.1	79.9	78.0	75.9
727.8	22.5°	569.2	388.4	135.9	95.2	86.5	80.6	76.1	72.9	71.0	69.3
775.5	25°	596.6	386.7	117.9	88.4	80.1	74.2	69.3	66.4	64.2	62.8
823.4	27.5°	622.9	384.1	104.7	82.3	74.0	68.3	63.6	60.2	58.3	57.2
872.8	30°	648.7	383.5	99.9	76.3	68.5	62.8	58.1	54.9	53.4	53.0
927.1	32.5°	679.9	385.2	102.0	74.2	63.4	57.7	53.2	50.9	49.4	49.4
987.5	35°	713.2	384.8	105.2	76.1	60.0	52.6	49.2	47.7	46.2	46.2
1054.5	37.5°	754.9	385.4	107.7	79.3	58.7	48.3	46.4	44.5	43.7	43.7
1127.8	40°	817.3	406.4	106.4	82.0	58.3	45.4	41.6	40.9	40.3	40.3
1210.7	42.5°	893.6	452.0	108.1	82.3	58.1	43.2	38.2	39.4	37.9	37.7
1304.2	45°	977.1	501.8	118.9	77.8	57.9	42.2	36.5	37.9	35.6	35.6
1412.6	47.5°	1060.0	551.2	130.0	71.4	57.2	42.0	35.0	34.1	33.5	33.7
1553.7	50°	1174.3	591.5	134.2	62.8	55.8	41.6	32.2	32.4	32.0	32.4
1752.8	52.5°	1298.7	600.0	129.1	53.0	51.5	40.3	30.3	31.2	31.0	31.4
1892.9	55°	1376.3	590.8	106.6	44.1	44.9	35.2	28.4	30.1	30.1	30.1
2029.9	57.5°	1456.4	552.0	75.7	35.8	37.3	28.8	26.7	29.0	28.8	28.6
2194.8	60°	1514.1	489.3	49.8	29.5	29.7	23.7	24.8	27.3	27.1	26.1
2364.9	62.5°	1557.1	420.0	32.0	25.0	22.7	21.4	22.7	24.8	24.0	21.6
2509.0	65°	1552.3	323.9	24.6	21.4	18.7	18.7	19.7	21.6	19.1	15.3
2536.6	67.5°	1461.7	219.2	20.4	18.0	15.7	15.5	16.3	18.0	16.3	12.9
2395.4	70°	1300.0	143.3	16.3	14.0	12.5	11.4	13.1	15.5	13.8	10.4
2039.2	72.5°	1055.1	87.3	12.3	10.2	9.1	7.4	10.4	12.7	11.0	7.6
1418.1	75°	682.6	44.5	8.5	6.6	4.9	4.5	7.6	9.5	7.6	4.7
629.2	77.5°	261.2	18.7	4.7	3.0	2.5	2.1	4.2	5.7	3.2	1.1
121.9	80°	50.2	7.8	2.3	1.5	1.3	0.8	0.6	0.4	0.0	0.0
21.6	82.5°	8.7	2.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.2	85°	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
393.7
238.9
139.9
113.8
105.2
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82.5
75.7
69.1
62.5
57.2
52.8
49.4
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43.7
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37.5
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