

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: P945258

Luminaire Tested: **GALN-SB1B-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

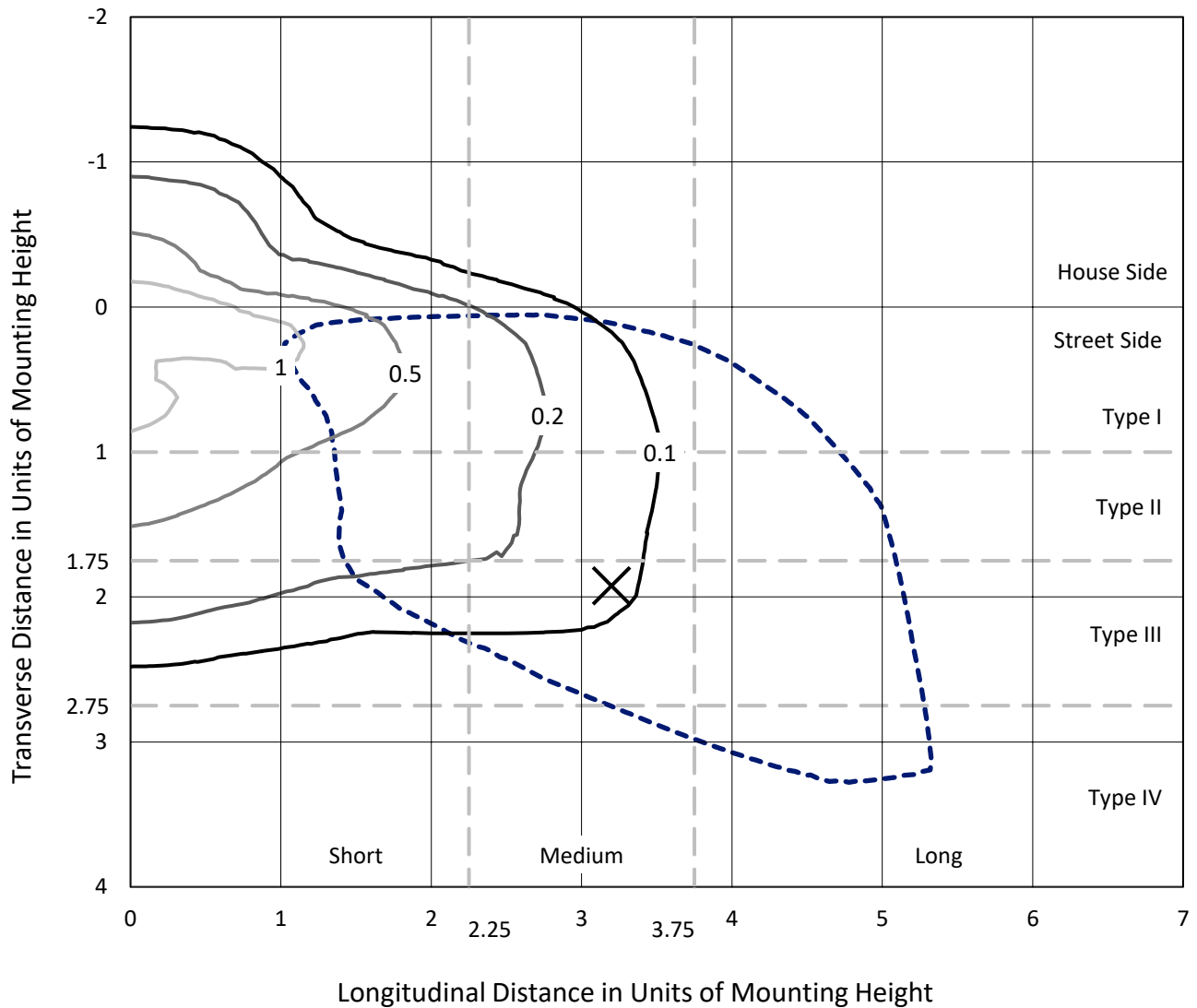
Lumens per Lamp: N/A  
Luminaire Lumens: 5505 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

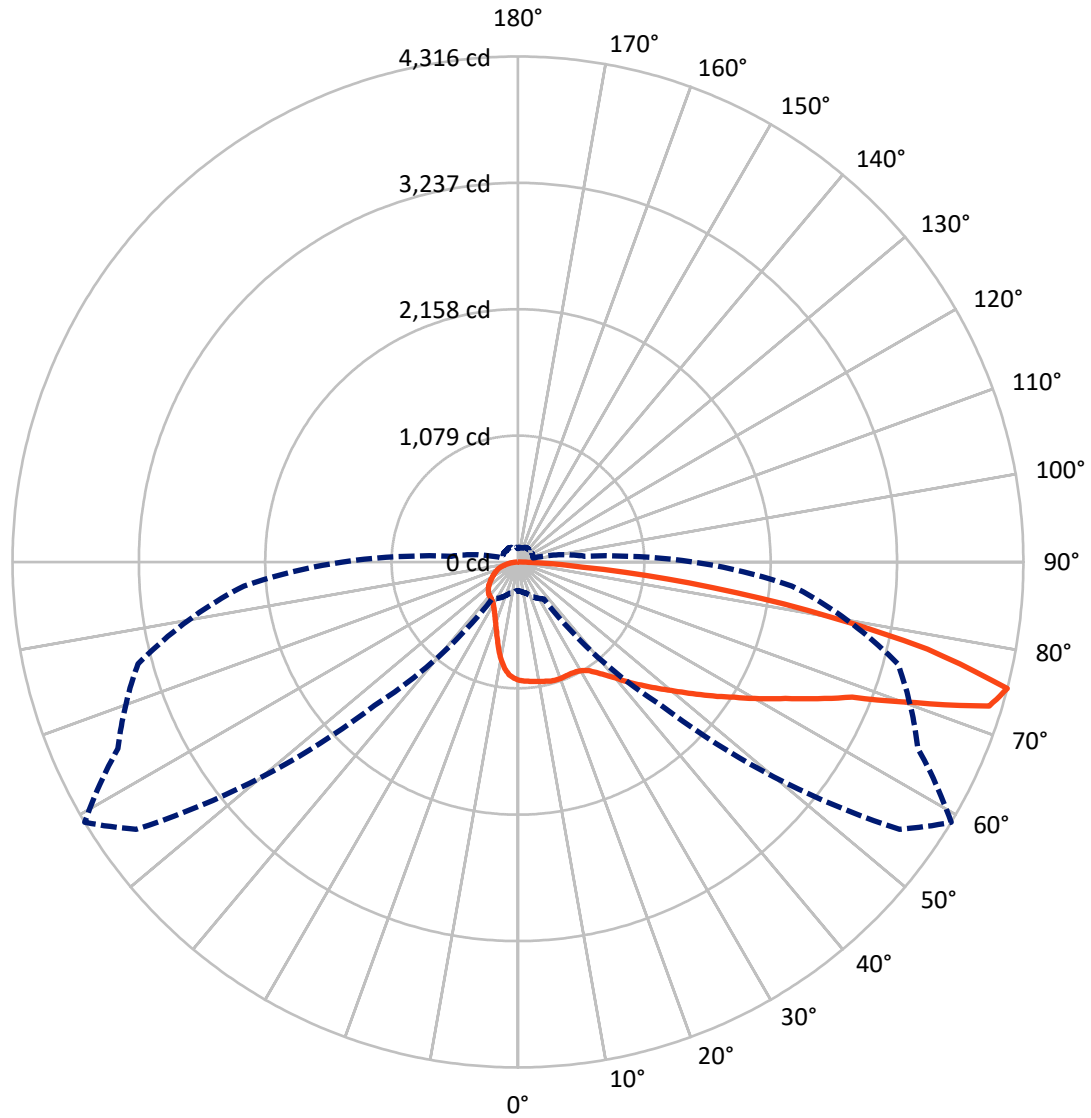
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1032.5	0.0	1032.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4472.5	0.0	4472.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5505.0	0.0	5505.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.6
10°-20°	231.6	4.2
20°-30°	351.8	6.4
30°-40°	522.9	9.5
40°-50°	777.6	14.1
50°-60°	1055.5	19.2
60°-70°	1288.6	23.4
70°-80°	1011.3	18.4
80°-90°	175.2	3.2
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°	5505.0	100.0
0°-180°	5505.0	100.0

**Coefficient of Utilization**



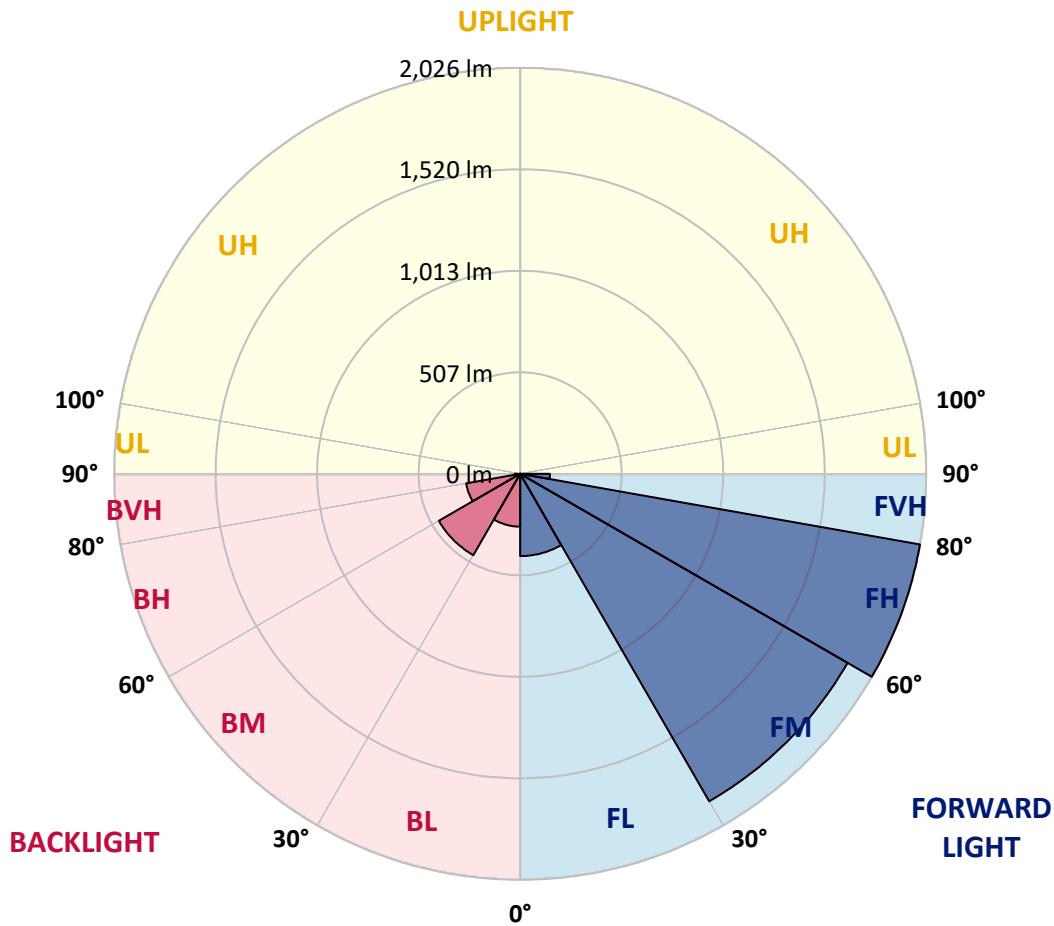
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.5	7.5			
FM (30°-60°)	1887.3	34.3			
FH (60°-80°)	2026.3	36.8			G2/5000
FVH (80°-90°)	148.4	2.7			G2/225
BL (0°-30°)	263.5	4.8	B1/500		
BM (30°-60°)	468.7	8.5	B1/1000		
BH (60°-80°)	273.5	5.0	B1/500		G1/500
BVH (80°-90°)	26.8	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-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
2.5°	1019.0	1015.5	1019.0	1017.5	1016.9	1015.8	1016.1	1018.1	1016.9	1018.4
5°	1012.2	1010.1	1013.7	1012.8	1016.6	1017.2	1021.1	1023.5	1024.9	1025.2
7.5°	1001.0	998.9	1003.9	1008.1	1016.4	1018.7	1026.7	1030.6	1032.6	1036.2
10°	959.8	958.9	971.3	987.0	1006.6	1018.7	1030.9	1037.4	1040.6	1050.1
12.5°	886.9	888.1	904.4	934.6	973.7	1012.8	1035.6	1045.1	1050.1	1062.0
15°	817.3	817.1	834.8	867.1	921.9	986.7	1038.0	1054.3	1062.8	1080.3
17.5°	777.1	775.9	788.3	812.9	863.8	946.8	1032.0	1059.3	1077.7	1099.6
20°	769.7	767.3	773.8	786.0	822.1	902.9	1016.6	1059.3	1089.5	1117.9
22.5°	796.6	792.8	790.1	788.6	804.6	866.8	999.2	1055.7	1107.0	1144.3
25°	850.8	844.9	831.3	817.9	813.2	850.5	983.8	1054.9	1133.0	1179.8
27.5°	938.5	931.1	903.5	871.5	842.8	858.8	977.0	1060.2	1161.8	1217.4
30°	1047.2	1039.2	1004.5	955.3	903.8	889.6	985.6	1075.9	1198.5	1267.5
32.5°	1144.6	1135.7	1106.1	1056.0	986.4	942.9	1012.8	1105.8	1256.2	1337.1
35°	1231.1	1220.7	1194.0	1147.8	1087.7	1017.8	1062.0	1158.8	1338.3	1450.2
37.5°	1315.8	1303.6	1274.6	1225.7	1183.7	1117.6	1129.8	1226.9	1447.2	1587.6
40°	1410.5	1393.0	1357.8	1309.5	1268.7	1234.6	1218.9	1310.4	1558.0	1741.0
42.5°	1502.3	1485.7	1443.7	1402.5	1351.3	1341.5	1322.3	1408.1	1679.1	1909.5
45°	1601.2	1581.4	1530.5	1478.3	1446.1	1412.6	1422.4	1505.9	1797.9	2081.3
47.5°	1693.9	1671.7	1611.6	1553.6	1535.8	1472.4	1514.2	1613.4	1921.4	2255.4
50°	1744.0	1722.1	1672.0	1619.6	1605.7	1546.1	1613.7	1731.5	2050.8	2428.9
52.5°	1785.7	1762.0	1696.6	1667.6	1663.4	1626.4	1736.3	1866.6	2180.2	2582.3
55°	1830.1	1803.8	1720.3	1694.2	1713.2	1716.4	1881.7	2019.7	2317.0	2731.9
57.5°	1881.4	1847.9	1743.1	1716.7	1761.7	1821.9	2048.7	2178.4	2451.4	2870.5
60°	1929.6	1895.9	1786.9	1752.6	1814.2	1944.2	2240.3	2370.6	2603.7	2994.0
62.5°	1939.1	1911.3	1821.9	1821.6	1885.2	2086.9	2467.1	2564.6	2736.6	3116.0
65°	1775.1	1757.6	1704.6	1818.9	1987.1	2292.4	2719.8	2812.7	2905.7	3222.6
67.5°	1351.0	1353.4	1349.5	1570.1	1904.8	2587.7	3085.5	3078.4	3114.5	3342.2
70°	617.7	631.7	722.3	1083.9	1526.0	2621.7	3690.2	3598.1	3376.6	3497.1
72.5°	333.8	344.4	381.4	525.1	917.4	2330.9	4142.1	4207.6	3725.1	3601.4
75°	244.9	250.8	276.6	333.8	385.3	1732.4	3980.1	4315.9	3768.7	3358.2
77.5°	183.3	186.0	207.0	264.5	197.2	913.3	3180.2	3574.4	3226.2	2759.1
80°	133.0	135.9	151.6	198.4	138.3	334.0	2183.7	2508.9	2209.5	1758.8
82.5°	91.8	93.0	99.8	135.0	96.5	129.7	1239.1	1471.2	1233.4	617.2
85°	55.4	56.9	59.8	78.8	54.8	61.6	534.8	553.2	368.7	147.5
87.5°	22.8	24.3	26.7	33.2	21.6	17.2	88.2	110.8	69.0	43.2
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°
1010.4	0°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
1013.4	2.5°	1011.9	1009.8	1004.2	996.5	989.4	980.5	976.7	973.4	970.5	964.8
1021.4	5°	1018.1	1012.5	997.4	977.9	955.6	931.4	907.7	891.4	877.5	867.1
1030.6	7.5°	1027.6	1016.9	989.4	949.4	898.5	846.4	799.3	765.8	740.6	731.5
1043.6	10°	1037.4	1024.6	976.7	906.2	818.2	738.0	675.5	641.1	621.0	614.5
1059.0	12.5°	1048.9	1030.3	956.8	846.1	728.5	640.6	586.1	565.9	555.6	552.0
1078.0	15°	1065.8	1035.0	926.9	770.9	642.9	569.5	534.2	520.3	515.0	514.7
1097.5	17.5°	1078.5	1035.9	880.4	690.3	577.2	526.5	497.5	492.2	495.7	501.1
1116.7	20°	1092.8	1027.9	819.4	616.9	531.0	488.9	476.8	480.3	488.9	496.6
1142.2	22.5°	1102.8	1013.4	745.7	559.7	491.0	467.3	466.7	474.1	478.9	482.7
1172.1	25°	1111.7	988.8	667.5	511.7	458.1	454.3	460.8	458.4	455.2	458.4
1202.0	27.5°	1118.2	950.0	597.6	469.7	435.0	445.4	441.5	436.2	435.9	437.7
1237.3	30°	1116.2	898.2	540.2	429.7	418.7	428.8	419.6	418.7	417.9	418.7
1290.3	32.5°	1116.2	839.3	496.0	402.2	408.4	404.5	403.6	401.6	398.0	397.7
1362.2	35°	1122.4	780.3	458.1	387.4	399.8	390.6	391.2	386.2	378.8	375.2
1457.6	37.5°	1135.1	732.9	420.5	380.2	384.7	384.4	382.0	373.4	360.4	349.1
1576.7	40°	1165.9	719.0	394.8	377.0	377.6	381.1	374.9	358.3	328.7	310.4
1697.5	42.5°	1214.2	742.4	389.1	369.0	372.8	376.4	364.3	325.8	304.7	293.8
1824.2	45°	1275.5	783.3	401.3	357.4	361.6	367.8	331.7	313.3	303.8	304.1
1949.8	47.5°	1353.1	826.2	423.8	347.4	345.3	348.9	310.1	298.8	285.8	289.0
2070.3	50°	1442.8	869.8	445.1	333.8	327.2	315.7	296.1	285.5	268.9	261.2
2186.7	52.5°	1539.9	911.8	453.7	317.2	307.7	294.4	286.7	273.6	253.5	240.8
2296.6	55°	1632.0	950.0	444.2	297.3	288.1	277.8	276.6	268.6	247.0	229.2
2394.3	57.5°	1719.1	982.0	420.5	277.2	268.3	262.1	270.1	266.2	239.0	216.2
2486.7	60°	1792.8	1003.9	386.2	256.8	250.5	247.3	259.4	258.2	227.7	202.3
2569.6	62.5°	1851.5	1012.5	348.3	237.2	235.7	229.8	244.6	244.6	213.5	188.6
2642.5	65°	1897.4	1004.2	309.8	218.0	220.9	212.0	226.5	224.8	198.4	176.5
2726.3	67.5°	1937.9	977.0	267.1	199.0	205.8	194.6	207.6	203.4	181.8	164.4
2798.8	70°	1956.0	913.6	218.6	180.1	188.3	177.4	188.6	180.9	163.2	151.3
2719.2	72.5°	1810.9	759.3	172.1	160.2	167.3	158.4	168.2	159.3	143.0	137.7
<b>2348.1</b>	<b>75°</b>	<b>1498.2</b>	<b>569.8</b>	<b>132.4</b>	<b>138.6</b>	<b>143.9</b>	<b>137.1</b>	<b>143.6</b>	<b>137.1</b>	<b>122.3</b>	<b>126.2</b>
1734.5	77.5°	1088.0	384.7	101.3	115.8	118.2	114.6	120.2	112.8	99.5	98.6
864.4	80°	541.0	225.4	79.4	91.5	90.6	88.2	94.8	91.2	80.0	84.7
233.4	82.5°	156.7	96.5	57.7	64.3	62.5	63.1	67.8	69.6	104.2	103.4
72.6	85°	49.2	37.9	34.6	35.8	34.1	34.9	40.0	79.4	73.4	42.9
22.5	87.5°	12.7	13.0	8.6	9.2	9.5	11.3	12.7	48.3	23.1	15.1
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>
1010.4
962.2
858.5
715.5
604.4
552.9
515.9
503.1
499.3
484.8
460.5
440.7
422.0
401.6
378.8
353.0
312.7
293.8
305.6
297.3
263.3
240.5
229.2
215.0
201.4
187.8
175.3
163.2
149.0
133.3
<i>115.2</i>
94.2
83.8
105.7
46.5
16.0
0.0

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