

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: P945760

Luminaire Tested: **GALN-SB1C-840-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

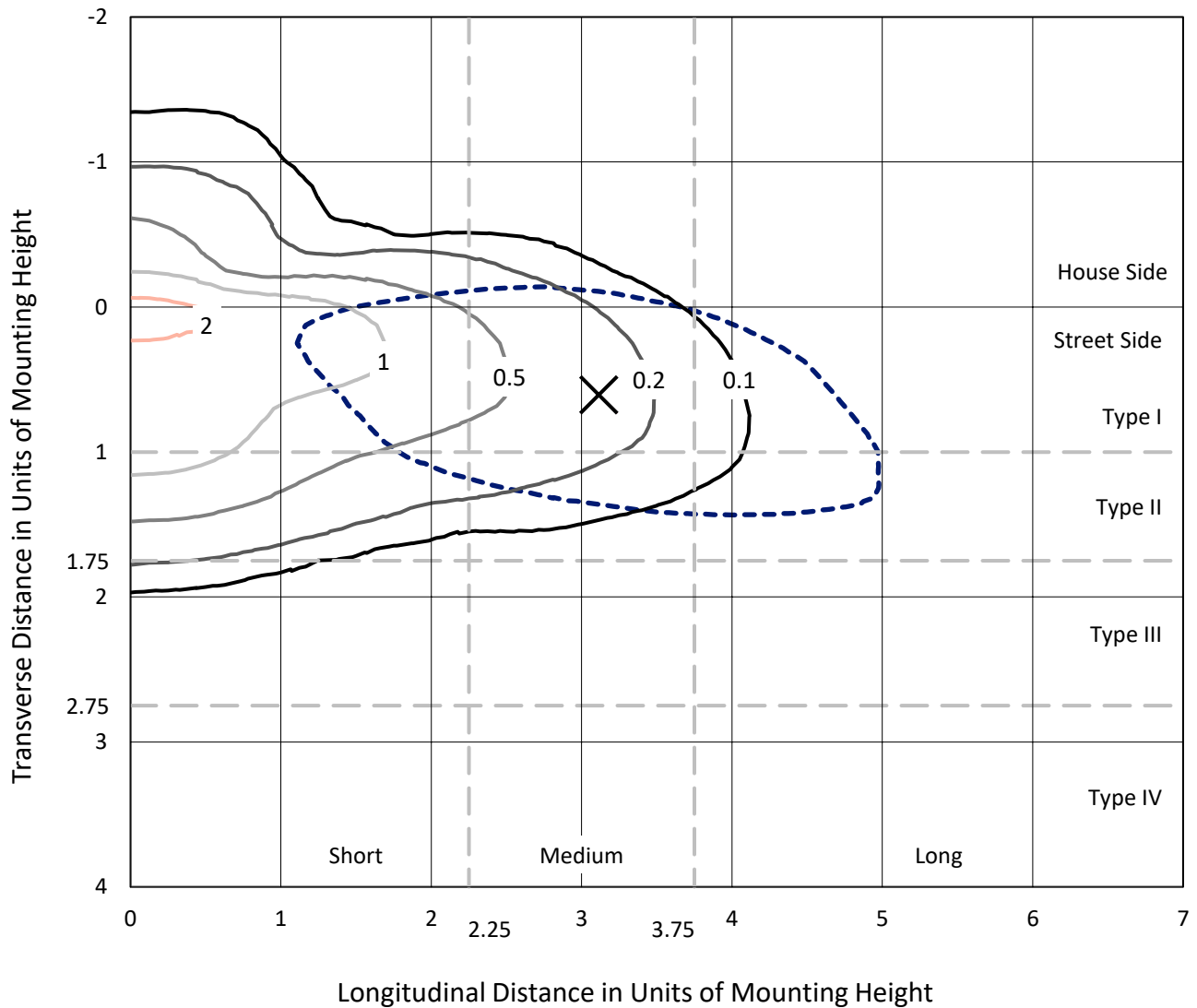
Lumens per Lamp: N/A  
Luminaire Lumens: 7122 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

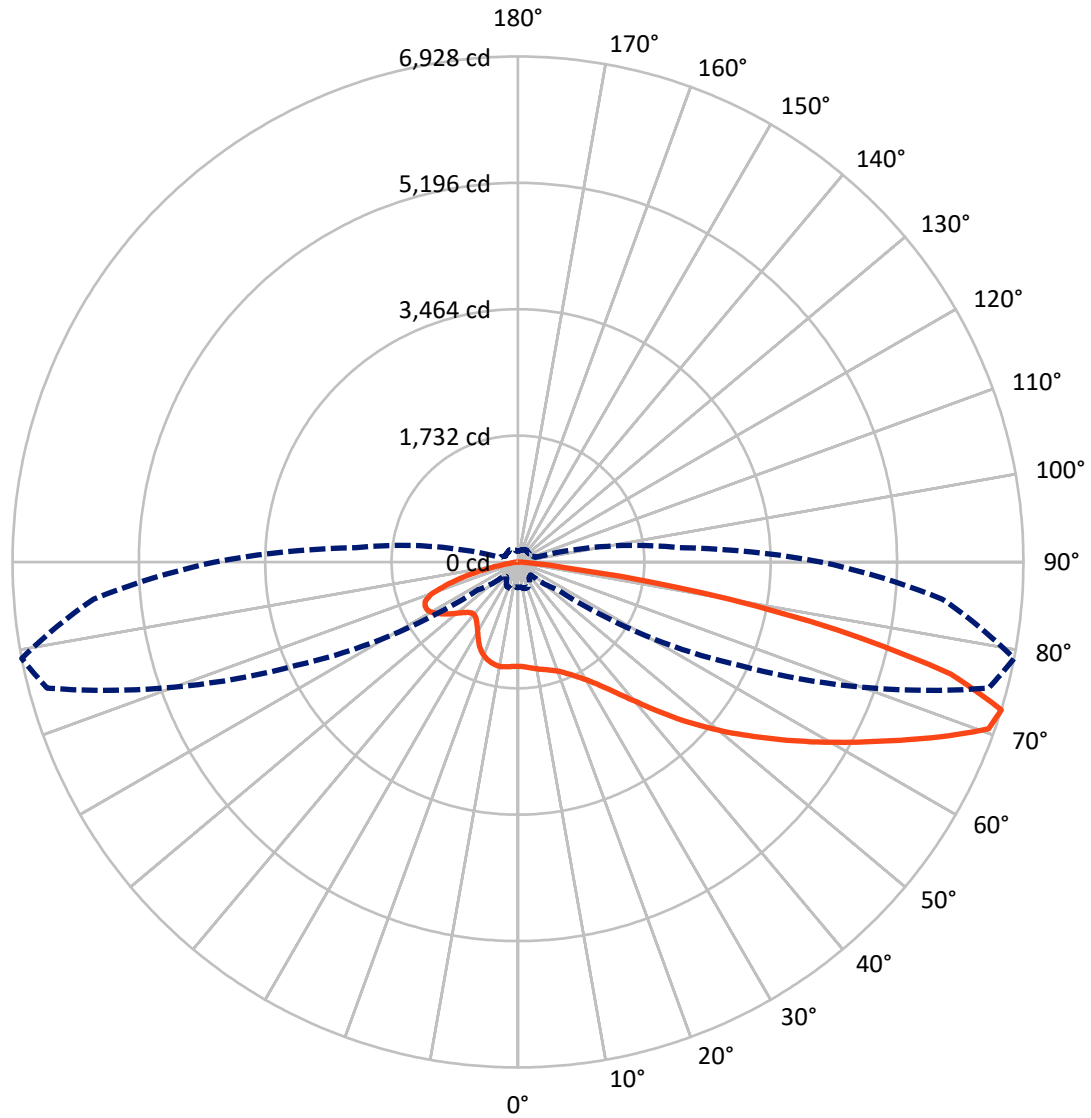
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1567.2	0.0	1567.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	5554.8	0.0	5554.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	7122.0	0.0	7122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	1.8
10°-20°	339.3	4.8
20°-30°	547.5	7.7
30°-40°	821.7	11.5
40°-50°	1165.6	16.4
50°-60°	1472.0	20.7
60°-70°	1495.0	21.0
70°-80°	1018.9	14.3
80°-90°	132.2	1.9
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°	7122.0	100.0
0°-180°	7122.0	100.0

**Coefficient of Utilization**



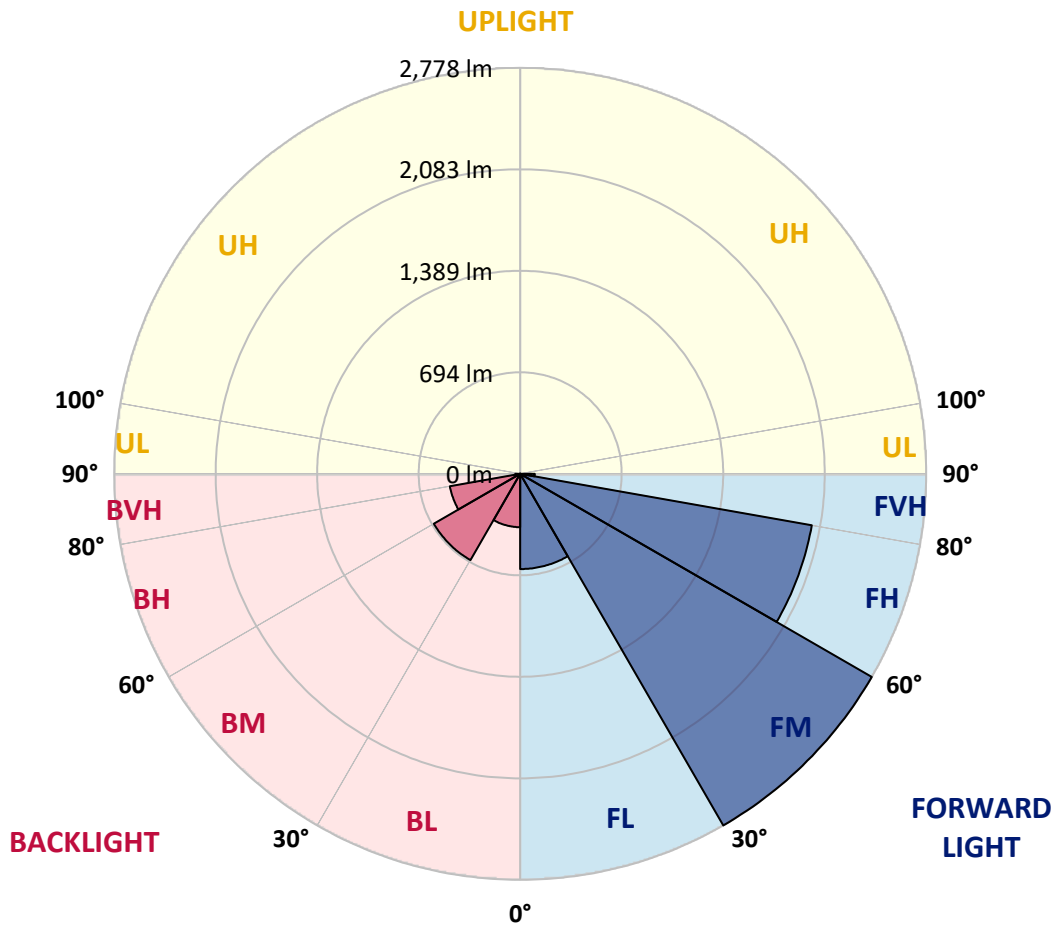
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.5	9.1			
FM (30°-60°)	2777.7	39.0			
FH (60°-80°)	2026.0	28.4			G2/5000
FVH (80°-90°)	99.6	1.4			G1/100
BL (0°-30°)	365.1	5.1	B1/500		
BM (30°-60°)	681.6	9.6	B1/1000		
BH (60°-80°)	488.0	6.9	B1/500		G1/500
BVH (80°-90°)	32.6	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7
2.5°	1430.4	1423.6	1427.8	1426.3	1428.2	1430.4	1431.2	1432.3	1436.1	1435.7
5°	1427.4	1420.6	1426.3	1424.4	1429.3	1434.6	1439.1	1443.2	1449.3	1451.9
7.5°	1421.0	1416.5	1422.1	1427.8	1436.8	1444.7	1451.1	1460.6	1469.2	1470.7
10°	1383.7	1380.3	1393.5	1408.2	1433.1	1454.5	1468.5	1479.4	1488.8	1490.3
12.5°	1344.9	1340.8	1355.5	1375.4	1415.7	1454.5	1483.9	1498.2	1506.5	1511.4
15°	1338.5	1335.1	1343.4	1360.7	1394.3	1444.4	1494.5	1520.8	1528.0	1533.7
17.5°	1369.4	1363.0	1366.4	1372.4	1392.0	1434.9	1502.8	1546.5	1557.4	1563.4
20°	1441.0	1431.9	1426.7	1414.6	1411.2	1436.5	1502.0	1577.4	1591.7	1599.2
22.5°	1536.3	1530.3	1519.0	1488.4	1455.3	1454.9	1516.3	1616.9	1643.7	1650.8
25°	1651.6	1642.5	1628.2	1586.8	1523.1	1491.5	1540.4	1667.4	1712.2	1714.1
27.5°	1784.2	1770.6	1751.0	1696.4	1610.5	1548.7	1577.4	1725.4	1791.0	1790.2
30°	1923.9	1910.4	1889.7	1823.4	1715.2	1625.9	1628.6	1787.9	1884.4	1880.2
32.5°	2026.0	2015.9	2011.7	1960.5	1835.8	1717.1	1687.4	1857.3	1999.7	1995.9
35°	2104.4	2091.2	2096.1	2070.1	1967.3	1819.2	1759.3	1939.8	2139.8	2139.4
37.5°	2182.0	2170.3	2174.5	2157.1	2088.9	1948.8	1847.1	2040.7	2313.5	2321.8
40°	2252.8	2240.4	2257.0	2240.8	2183.5	2086.7	1946.9	2154.9	2514.6	2530.5
42.5°	2295.4	2285.6	2313.1	2313.5	2265.6	2203.1	2056.5	2280.7	2747.5	2782.9
45°	2310.1	2306.7	2348.1	2356.8	2338.3	2270.5	2155.2	2417.8	2998.4	3061.6
47.5°	2294.3	2287.9	2345.1	2377.1	2391.8	2302.2	2237.0	2566.3	3254.5	3347.2
50°	2214.4	2202.0	2287.1	2354.5	2406.9	2322.9	2319.5	2737.7	3545.7	3647.1
52.5°	2070.9	2061.4	2158.3	2275.4	2373.7	2333.1	2412.2	2924.9	3822.3	3953.4
55°	1887.4	1875.0	1981.6	2134.5	2291.2	2329.7	2504.8	3134.4	4148.5	4281.5
57.5°	1596.6	1571.7	1706.6	1887.4	2156.8	2325.5	2601.3	3342.7	4480.0	4639.4
60°	1172.4	1135.5	1300.8	1515.2	1893.8	2285.2	2720.7	3576.3	4877.8	5021.4
62.5°	682.6	661.2	769.3	969.3	1427.4	2047.9	2787.8	3847.9	5268.9	5419.6
65°	530.1	524.0	533.4	548.9	794.5	1533.3	2580.9	4112.7	5766.2	5871.6
67.5°	484.8	480.3	484.5	455.5	403.1	854.0	2041.9	4179.8	6298.9	6362.9
70°	431.0	425.7	439.3	414.4	317.2	388.4	1319.3	3936.4	6722.7	6842.8
72.5°	351.1	345.1	376.7	365.4	267.1	249.4	662.7	3358.1	6678.2	6927.6
75°	269.7	266.3	304.0	313.4	217.7	196.3	318.0	2496.2	5876.9	6128.2
77.5°	209.5	206.8	226.0	260.3	175.6	152.2	195.5	1583.4	4428.8	4472.9
80°	157.1	149.6	167.3	201.5	136.8	111.1	132.6	923.4	2799.4	2537.6
82.5°	98.3	94.6	109.3	134.5	96.4	76.5	86.3	510.1	1121.9	660.8
85°	56.1	54.6	59.5	76.9	52.4	44.1	49.4	225.3	204.9	140.9
87.5°	22.6	21.9	27.1	34.3	19.2	16.2	17.3	54.2	45.2	41.8
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°
1429.7	0°	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7
1435.3	2.5°	1433.8	1433.8	1428.5	1420.3	1410.8	1404.8	1395.0	1392.4	1382.2	1379.2
1448.1	5°	1451.1	1448.1	1431.9	1408.6	1376.6	1347.2	1314.8	1294.4	1265.8	1255.6
1473.4	7.5°	1473.0	1464.7	1436.8	1385.6	1318.5	1252.6	1184.0	1132.1	1082.3	1064.6
1494.1	10°	1493.0	1481.3	1433.8	1344.2	1228.1	1114.0	1004.7	928.3	870.2	846.5
1517.1	12.5°	1512.9	1491.5	1413.9	1275.2	1099.7	944.8	828.4	768.9	733.1	704.5
1535.9	15°	1531.8	1501.6	1383.0	1182.9	958.8	801.7	715.8	668.3	639.7	620.8
1563.4	17.5°	1553.6	1510.3	1336.6	1065.8	824.7	702.6	632.5	603.9	598.2	596.0
1601.1	20°	1584.1	1518.2	1275.6	934.7	726.0	623.5	587.3	584.7	584.3	583.2
1646.3	22.5°	1616.9	1527.6	1195.0	815.6	641.9	574.1	567.7	562.5	559.1	558.7
1700.9	25°	1655.7	1530.6	1094.0	718.0	570.4	550.8	543.2	535.3	533.1	533.1
1763.1	27.5°	1693.4	1520.5	976.5	633.3	530.1	529.3	519.5	516.9	516.5	517.6
1833.9	30°	1731.1	1501.3	859.7	554.9	506.7	506.7	503.3	505.2	506.7	510.5
1931.1	32.5°	1781.9	1480.9	762.1	496.9	486.4	482.6	486.0	489.7	491.3	496.1
2058.8	35°	1856.5	1466.6	684.5	465.3	465.3	460.4	462.2	461.5	458.1	455.8
2213.3	37.5°	1955.2	1465.8	620.5	450.6	447.6	446.8	447.2	442.3	429.1	413.3
2400.1	40°	2073.9	1486.2	571.1	440.4	438.1	442.7	440.4	427.2	391.0	363.5
2629.9	42.5°	2233.2	1544.2	539.5	428.0	434.7	440.4	431.4	385.8	361.3	342.8
2891.7	45°	2420.8	1638.4	523.3	414.8	428.3	435.1	391.4	371.5	351.9	329.6
3177.3	47.5°	2633.3	1757.0	519.5	402.3	414.0	418.2	374.5	365.4	343.2	319.1
3464.4	50°	2864.6	1897.6	529.7	387.7	393.3	379.0	368.8	360.5	337.5	313.8
3758.6	52.5°	3103.8	2052.4	550.0	367.7	372.6	356.8	366.6	359.4	334.2	302.1
4062.6	55°	3338.9	2208.4	569.6	344.3	351.5	336.8	360.1	354.9	318.7	282.5
4387.0	57.5°	3577.8	2363.6	588.8	323.6	331.1	317.6	350.0	342.8	301.4	264.5
4741.1	60°	3826.0	2514.3	597.9	303.6	308.9	299.9	334.5	322.1	281.8	246.0
5089.2	62.5°	4058.5	2639.7	583.2	283.7	287.1	283.3	314.2	297.6	262.2	225.3
5452.0	65°	4291.7	2714.3	538.0	264.1	264.8	263.0	285.6	271.2	239.2	207.2
5769.6	67.5°	4503.0	2756.1	466.0	243.0	241.1	240.4	258.8	242.6	217.0	189.1
6011.0	70°	4547.8	2649.9	356.0	218.1	218.1	216.2	229.4	212.8	192.5	169.9
5838.1	72.5°	4153.8	2229.1	252.8	189.9	192.9	189.1	200.0	186.1	167.6	152.6
5031.5	75°	3349.5	1634.6	183.8	160.9	166.1	159.7	169.9	160.1	144.3	143.9
3467.4	77.5°	2301.4	1010.8	133.4	132.6	136.4	128.1	139.8	134.5	120.2	113.8
1509.2	80°	982.1	403.1	97.2	102.5	102.5	94.9	108.5	110.0	97.6	94.6
291.2	82.5°	195.5	114.5	68.2	70.4	66.3	64.0	76.9	85.1	117.5	130.7
87.8	85°	58.8	42.2	41.1	38.4	33.9	34.3	45.2	85.5	105.5	60.3
29.0	87.5°	16.2	10.5	10.9	8.7	7.2	9.4	15.4	64.8	35.4	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>
1429.7
1384.1
1263.2
1066.9
851.8
713.9
624.2
597.5
586.9
562.8
535.3
520.6
513.1
500.3
461.1
413.6
362.8
342.1
328.1
317.2
311.2
299.9
280.7
263.7
244.9
224.9
204.9
186.9
169.1
148.1
129.6
106.6
94.6
131.1
52.0
12.8
0.0

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