

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: P945537

Luminaire Tested: **GALN-SB1B-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3991 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

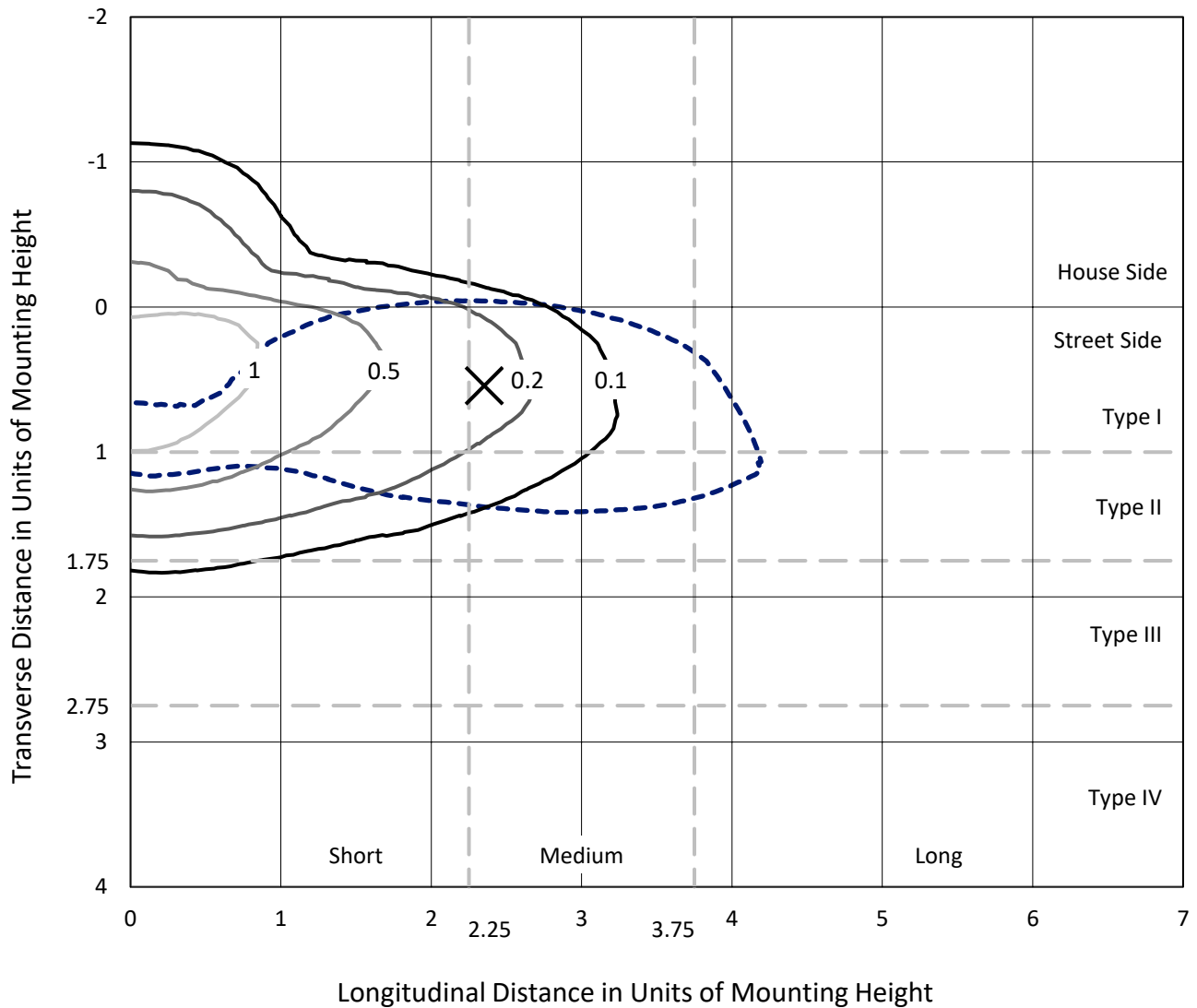
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

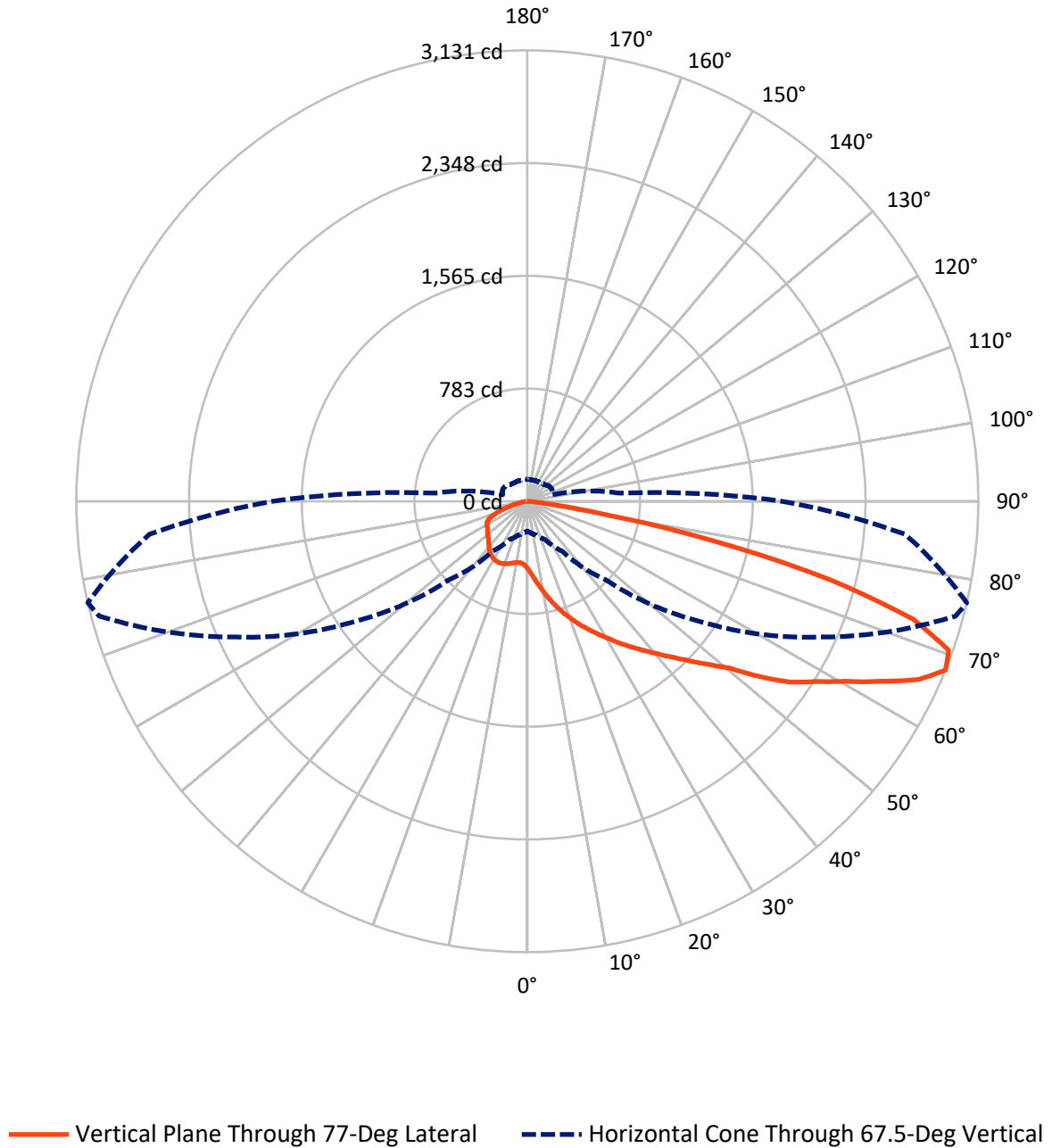
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.9	0.0	754.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3236.1	0.0	3236.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	3991.0	0.0	3991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.3
10°-20°	180.3	4.5
20°-30°	340.5	8.5
30°-40°	548.5	13.7
40°-50°	750.2	18.8
50°-60°	846.3	21.2
60°-70°	789.9	19.8
70°-80°	433.0	10.8
80°-90°	52.2	1.3
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°	3991.0	100.0
0°-180°	3991.0	100.0

Coefficient of Utilization



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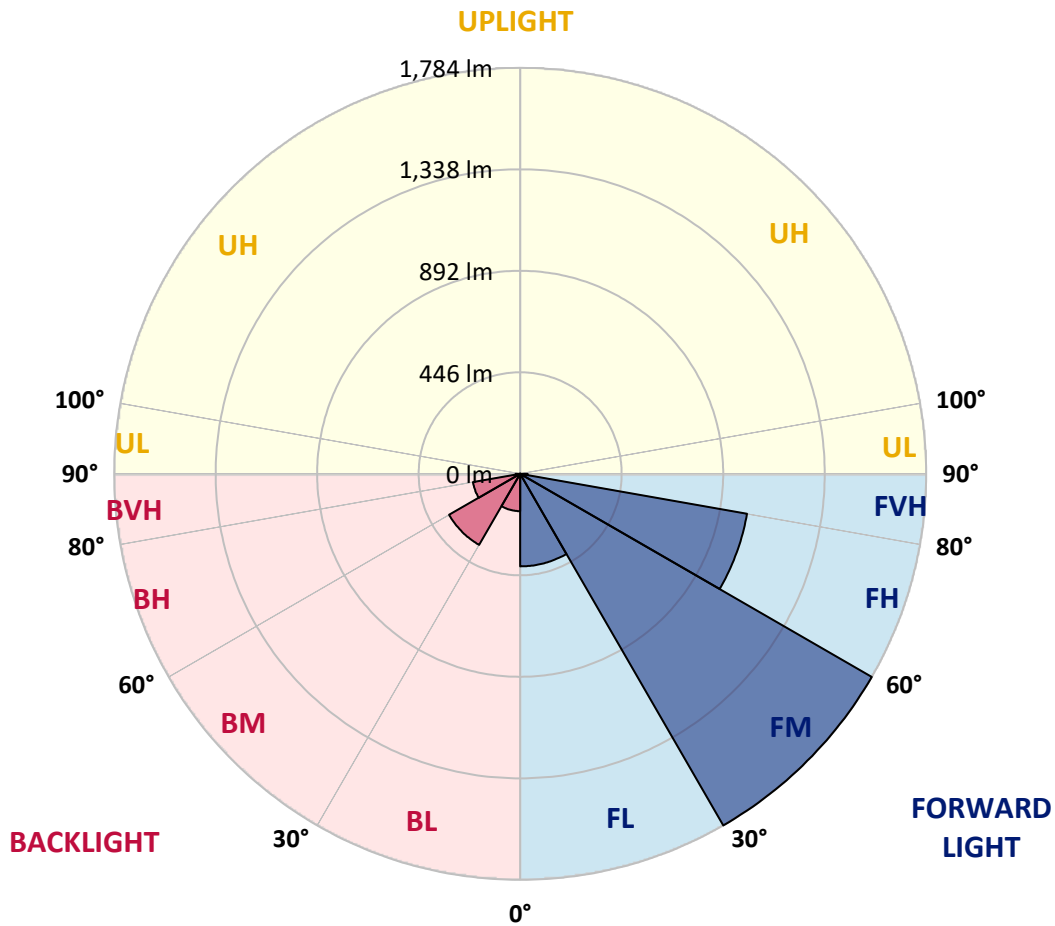
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.8	10.2			
FM (30°-60°)	1784.3	44.7			
FH (60°-80°)	1012.2	25.4			G1/1800
FVH (80°-90°)	32.7	0.8			G1/100
BL (0°-30°)	164.1	4.1	B1/500		
BM (30°-60°)	360.6	9.0	B1/1000		
BH (60°-80°)	210.6	5.3	B1/500		G1/500
BVH (80°-90°)	19.6	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	586.3	590.4	585.3	585.3	568.0	558.9	541.6	528.4	504.7	500.6
5°	693.0	698.2	691.0	687.9	667.5	648.7	619.7	591.1	548.8	544.5
7.5°	775.6	782.2	775.8	772.5	754.4	733.4	699.4	659.4	599.9	591.5
10°	843.0	844.0	842.0	843.2	829.0	811.7	776.9	730.3	655.9	644.4
12.5°	881.1	885.9	890.0	897.4	894.9	884.2	852.9	797.3	715.3	700.4
15°	899.0	907.3	916.6	933.7	947.5	950.1	926.2	869.2	775.6	757.7
17.5°	905.4	913.3	927.9	952.6	982.3	1002.3	991.5	939.0	835.4	814.8
20°	937.8	940.0	948.9	972.4	1004.5	1037.7	1045.7	1006.2	894.5	871.2
22.5°	1007.0	1002.5	1004.9	1015.6	1038.7	1070.9	1089.2	1065.5	955.3	928.5
25°	1121.3	1108.1	1095.0	1082.6	1094.3	1112.5	1133.3	1124.8	1018.9	984.9
27.5°	1265.7	1249.7	1220.6	1180.0	1165.8	1172.2	1181.5	1179.8	1077.9	1043.5
30°	1407.9	1389.1	1354.5	1295.8	1258.3	1241.4	1234.4	1229.7	1141.9	1105.3
32.5°	1521.4	1506.6	1472.6	1406.9	1352.5	1323.6	1300.4	1283.5	1208.9	1172.2
35°	1620.7	1606.9	1568.0	1496.3	1437.1	1406.5	1376.0	1339.9	1278.5	1241.4
37.5°	1711.4	1697.5	1644.2	1569.6	1510.1	1488.9	1461.7	1400.5	1348.4	1313.3
40°	1768.6	1765.5	1715.7	1631.2	1569.4	1558.9	1549.8	1470.7	1425.8	1393.3
42.5°	1783.3	1790.0	1750.5	1681.1	1622.1	1613.7	1634.9	1550.3	1512.8	1481.6
45°	1748.0	1767.6	1741.6	1694.5	1659.6	1655.1	1710.3	1637.2	1609.0	1580.5
47.5°	1658.8	1692.0	1681.3	1674.7	1669.7	1689.3	1776.7	1729.5	1717.9	1693.2
50°	1478.8	1541.6	1560.3	1602.0	1649.8	1715.9	1837.0	1830.2	1845.3	1820.3
52.5°	1167.5	1254.0	1362.8	1467.0	1588.4	1707.0	1903.4	1974.8	2038.3	2024.7
55°	963.7	1002.7	1086.3	1277.5	1469.3	1669.7	1933.2	2091.7	2229.9	2217.7
57.5°	807.2	842.0	893.5	1053.1	1289.2	1585.1	1951.8	2162.9	2361.1	2359.9
60°	639.3	676.1	728.9	842.0	1078.9	1438.8	1947.6	2244.1	2528.6	2538.9
62.5°	449.7	490.3	548.8	654.3	864.0	1249.3	1863.6	2302.8	2725.8	2753.8
65°	295.6	322.4	366.5	457.6	643.8	1005.6	1703.1	2310.4	2936.7	2984.1
67.5°	207.2	217.6	243.5	293.0	424.4	771.1	1447.4	2231.5	3077.4	3130.8
70°	161.7	166.9	180.1	199.8	266.6	518.5	1109.2	2026.3	3047.3	3103.0
72.5°	139.7	144.6	149.6	152.0	178.8	320.1	751.3	1694.3	2764.1	2801.8
75°	126.7	127.9	132.1	131.2	136.4	207.7	433.7	1234.4	2180.9	2167.9
77.5°	106.5	108.2	115.0	113.9	121.1	141.9	225.2	796.7	1413.9	1325.7
80°	90.2	91.1	98.5	97.2	105.3	102.8	115.0	406.1	599.7	508.0
82.5°	31.3	38.7	75.2	77.5	80.3	62.2	66.3	165.6	183.1	140.3
85°	15.2	16.3	38.3	54.4	54.2	31.3	32.3	59.1	57.7	45.3
87.5°	2.5	3.1	4.5	21.2	16.9	8.2	11.1	11.5	11.9	10.3
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°
468.3	0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
485.0	2.5°	473.4	463.1	441.5	421.5	405.8	390.8	382.4	375.2	371.0	370.2
507.6	5°	486.2	465.0	425.6	392.5	370.8	354.8	346.3	341.0	338.3	336.6
538.1	7.5°	504.5	473.4	417.4	379.7	357.0	345.5	341.2	340.3	340.1	340.3
575.0	10°	529.9	487.2	416.6	376.6	357.6	351.3	351.0	351.3	352.1	352.3
615.2	12.5°	557.3	501.4	419.9	379.3	365.5	362.0	361.3	361.1	361.8	362.2
655.7	15°	587.1	520.2	425.4	385.0	374.1	370.4	369.8	368.6	368.4	368.1
698.4	17.5°	617.8	538.7	431.6	391.2	379.7	374.5	372.3	369.4	367.1	366.5
742.5	20°	648.9	557.1	435.9	394.3	380.1	372.9	368.4	363.4	359.5	357.2
787.0	22.5°	682.1	576.2	438.6	393.5	376.4	366.5	358.3	352.5	346.5	342.6
831.9	25°	714.5	592.9	438.4	389.2	369.2	356.6	346.1	338.7	330.4	326.3
878.2	27.5°	745.6	607.9	433.2	381.5	358.9	344.9	332.3	323.4	315.4	311.5
925.0	30°	777.7	620.5	425.2	370.4	346.7	331.3	317.5	309.8	302.6	298.9
974.4	32.5°	809.6	632.0	413.9	356.6	332.7	317.9	304.3	297.3	293.0	293.0
1027.6	35°	843.4	640.1	398.8	340.5	317.9	303.7	293.0	288.8	288.4	285.9
1083.8	37.5°	879.1	645.2	380.5	324.1	303.3	289.9	286.6	281.6	277.5	272.1
1145.6	40°	916.6	650.4	358.5	307.0	287.8	280.4	278.9	272.3	260.6	247.4
1215.7	42.5°	962.1	653.9	335.6	289.9	271.5	269.1	271.1	259.8	241.0	231.1
1300.2	45°	1014.8	659.7	314.6	273.0	254.8	254.8	263.5	248.7	233.2	227.0
1396.6	47.5°	1083.2	673.0	295.0	254.4	239.4	243.5	246.6	235.3	226.6	219.0
1514.0	50°	1182.1	705.2	274.8	235.7	227.6	235.9	231.6	225.0	214.9	208.7
1700.6	52.5°	1304.9	724.1	256.9	218.8	217.6	225.8	219.6	213.4	205.8	197.6
1842.2	55°	1388.5	727.6	241.9	206.4	210.8	209.9	207.7	202.1	198.0	187.1
1981.8	57.5°	1482.1	734.6	229.5	199.0	206.4	197.4	196.5	191.8	186.4	179.0
2152.2	60°	1593.9	745.6	218.8	196.1	202.7	189.1	185.0	183.1	177.8	174.1
2357.2	62.5°	1715.9	755.5	207.9	196.5	198.4	181.1	174.9	174.3	171.0	169.8
2549.6	65°	1799.1	728.5	194.3	196.1	191.6	172.8	165.0	164.8	162.1	161.7
2633.1	67.5°	1770.1	643.0	175.9	190.4	184.6	164.6	156.0	155.1	151.6	151.8
2545.9	70°	1624.6	521.0	150.6	176.1	175.9	157.2	146.5	143.8	139.1	139.9
2213.6	72.5°	1351.9	386.1	116.6	152.4	162.1	150.4	135.6	131.2	125.3	126.1
1634.1	75°	976.3	262.5	84.9	116.0	141.1	142.4	124.8	117.4	110.2	111.5
909.5	77.5°	499.6	148.7	62.4	79.9	110.8	129.4	115.2	105.3	103.6	115.2
262.3	80°	163.0	74.6	43.3	56.0	72.7	105.9	100.9	89.6	89.2	91.9
55.0	82.5°	48.6	31.5	27.8	36.9	40.2	81.2	87.1	67.8	58.3	61.4
18.3	85°	16.7	15.2	15.9	18.3	19.2	47.6	61.0	44.9	42.4	46.8
4.1	87.5°	3.9	5.4	4.5	4.1	4.1	11.5	23.7	18.7	26.0	17.3
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>
468.3
370.2
336.4
341.0
352.5
362.4
367.9
367.1
358.1
342.8
326.3
311.3
298.7
293.2
285.3
271.3
245.6
231.4
228.1
218.8
208.1
195.9
187.3
176.6
175.1
169.8
161.5
151.8
140.7
125.9
111.9
113.5
78.9
63.5
46.1
16.7
0.0

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