

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: P945075

Luminaire Tested: **GALN-SB1A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945075
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-SB1A-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4372 lumens
Efficiency: N/A
Efficacy: 141.5 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

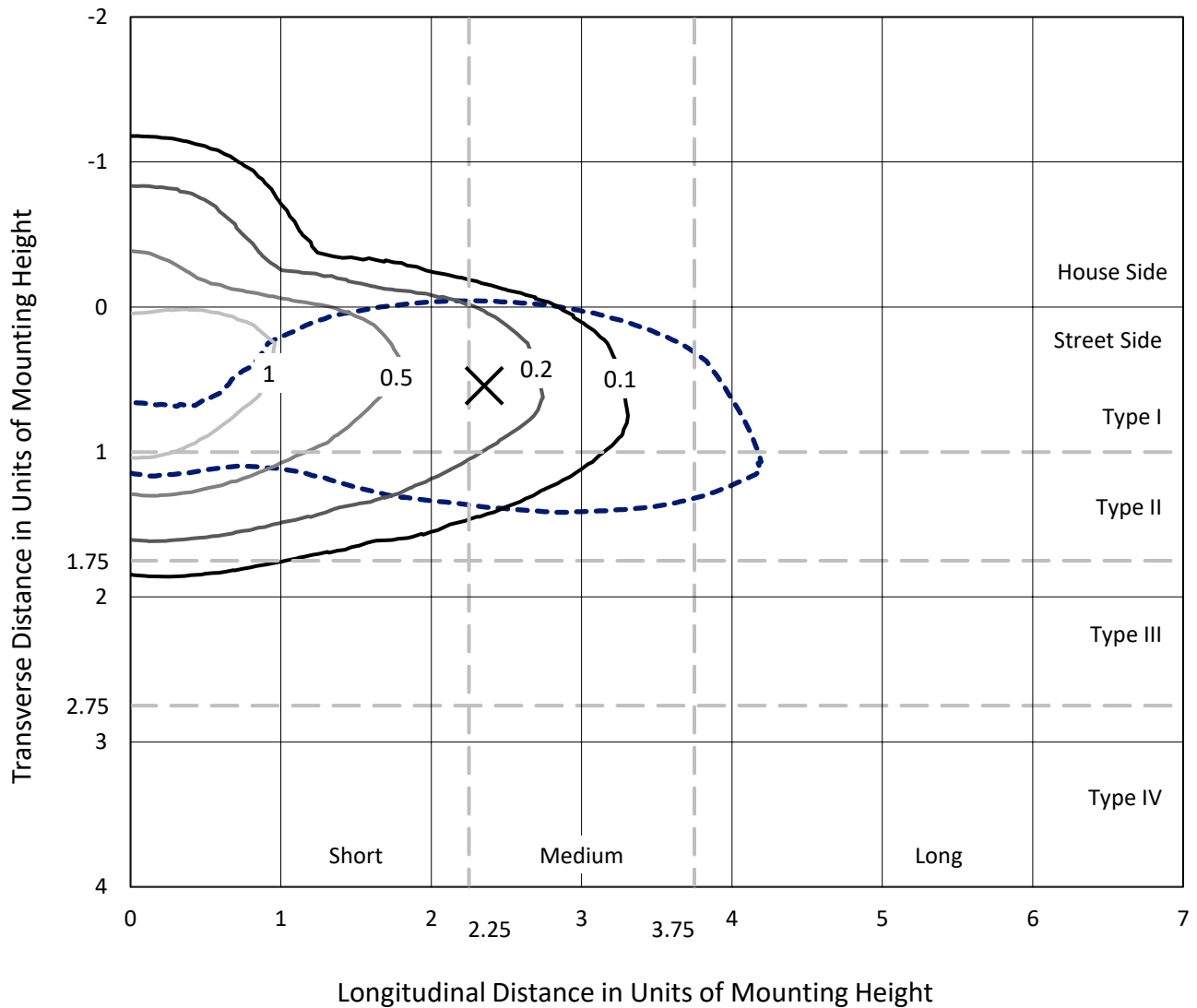
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

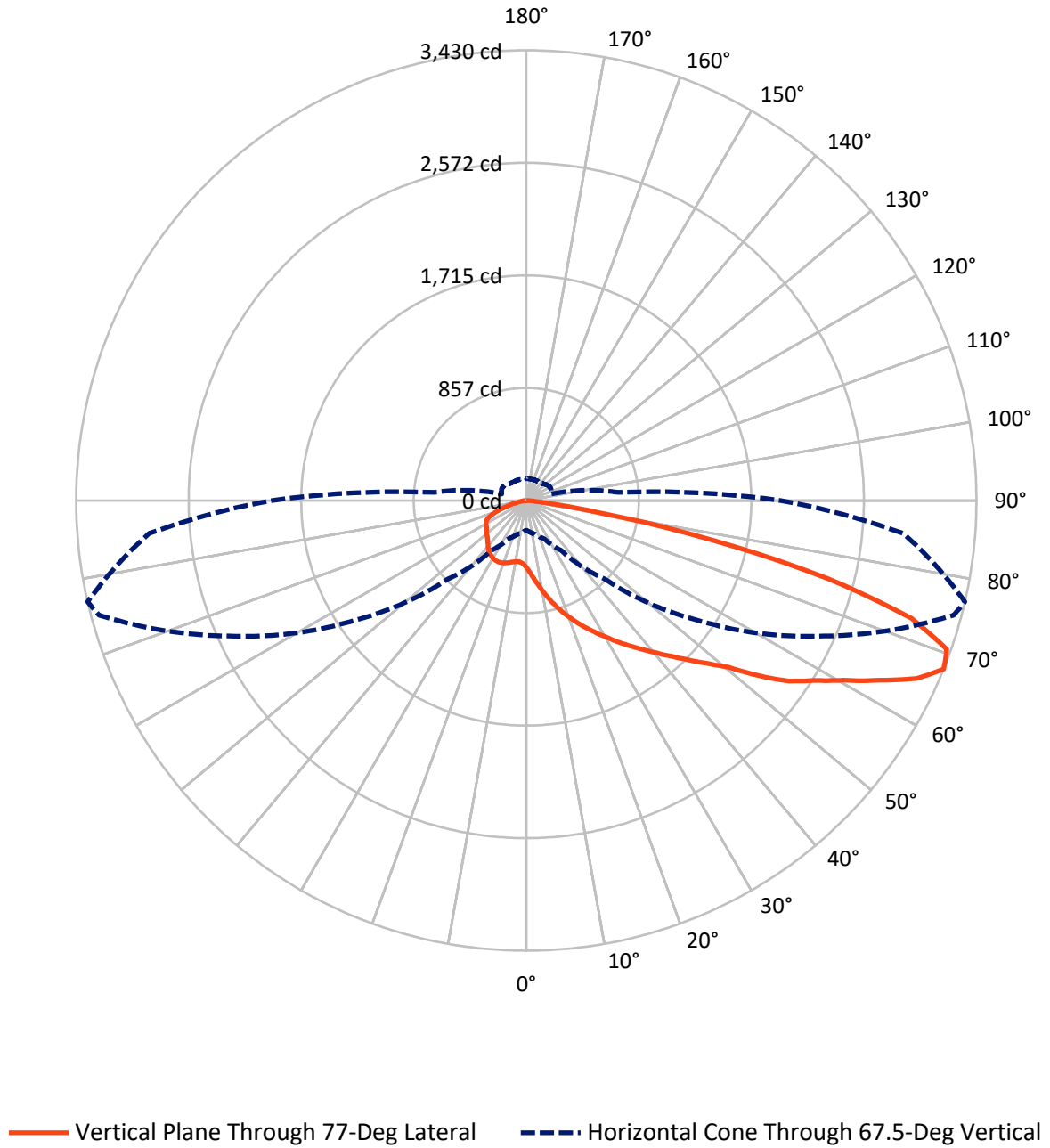
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	827.0	0.0	827.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3545.0	0.0	3545.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	4372.0	0.0	4372.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.3
10°-20°	197.5	4.5
20°-30°	373.0	8.5
30°-40°	600.8	13.7
40°-50°	821.8	18.8
50°-60°	927.0	21.2
60°-70°	865.3	19.8
70°-80°	474.3	10.8
80°-90°	57.2	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°	4372.0	100.0
0°-180°	4372.0	100.0



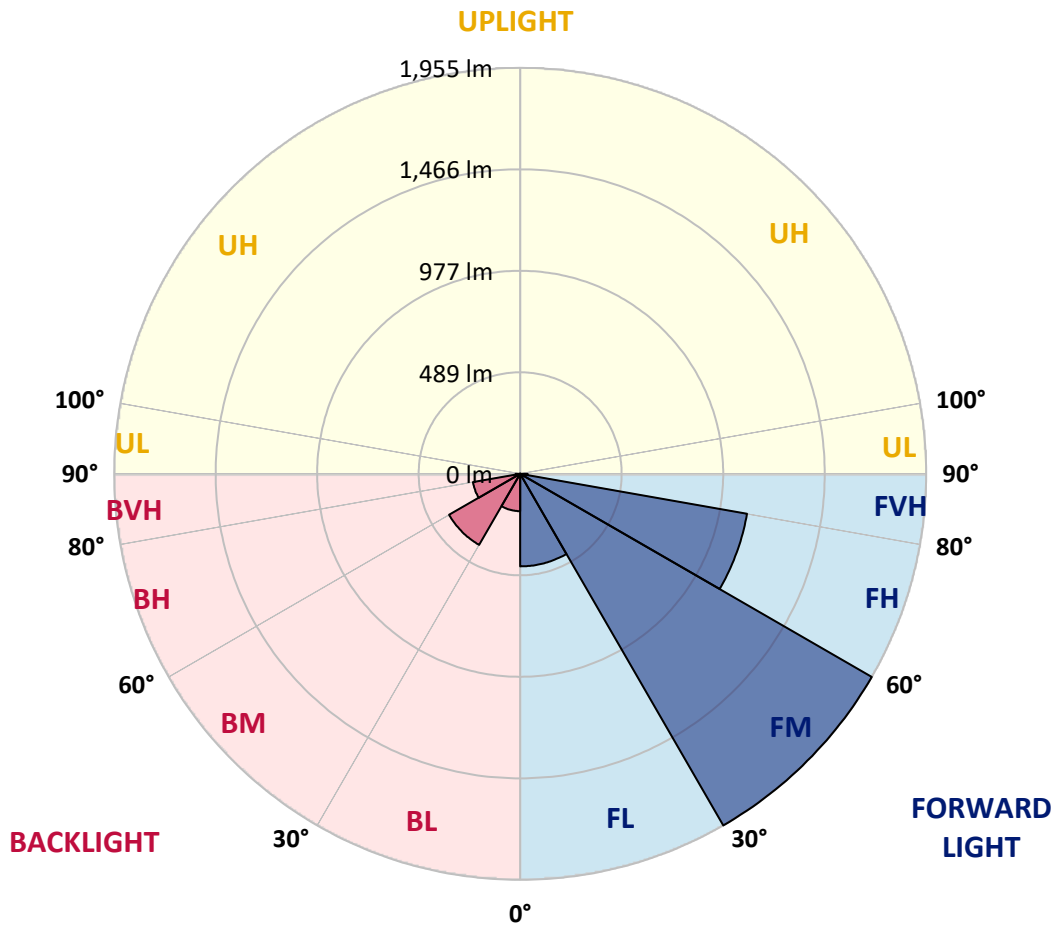
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.7	10.2			
FM (30°-60°)	1954.7	44.7			
FH (60°-80°)	1108.9	25.4			G1/1800
FVH (80°-90°)	35.8	0.8			G1/100
BL (0°-30°)	179.8	4.1	B1/500		
BM (30°-60°)	395.0	9.0	B1/1000		
BH (60°-80°)	230.7	5.3	B1/500		G1/500
BVH (80°-90°)	21.4	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°	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
2.5°	642.3	646.8	641.2	641.2	622.2	612.3	593.3	578.9	552.9	548.4
5°	759.2	764.8	756.9	753.5	731.2	710.7	678.8	647.5	601.2	596.5
7.5°	849.7	856.9	849.9	846.3	826.4	803.4	766.2	722.4	657.2	647.9
10°	923.5	924.6	922.4	923.7	908.1	889.2	851.0	800.0	718.6	705.9
12.5°	965.2	970.4	974.9	983.1	980.4	968.6	934.3	873.4	783.6	767.3
15°	984.9	993.9	1004.1	1022.8	1037.9	1040.8	1014.7	952.1	849.7	830.1
17.5°	991.9	1000.4	1016.5	1043.5	1076.0	1097.9	1086.2	1028.7	915.1	892.6
20°	1027.3	1029.8	1039.5	1065.2	1100.4	1136.8	1145.6	1102.2	979.9	954.4
22.5°	1103.1	1098.2	1100.9	1112.6	1137.9	1173.1	1193.2	1167.2	1046.5	1017.1
25°	1228.4	1213.9	1199.5	1186.0	1198.8	1218.7	1241.5	1232.2	1116.2	1079.0
27.5°	1386.6	1369.0	1337.2	1292.7	1277.1	1284.1	1294.3	1292.5	1180.8	1143.1
30°	1542.3	1521.8	1483.8	1419.5	1378.5	1359.9	1352.3	1347.1	1250.9	1210.8
32.5°	1666.6	1650.4	1613.2	1541.2	1481.6	1450.0	1424.5	1406.0	1324.3	1284.1
35°	1775.4	1760.3	1717.7	1639.1	1574.3	1540.7	1507.3	1467.8	1400.6	1359.9
37.5°	1874.7	1859.6	1801.2	1719.5	1654.2	1631.0	1601.2	1534.2	1477.1	1438.7
40°	1937.5	1934.1	1879.5	1786.9	1719.2	1707.7	1697.8	1611.1	1561.9	1526.3
42.5°	1953.5	1960.9	1917.6	1841.6	1777.0	1767.8	1791.0	1698.2	1657.2	1623.1
45°	1914.9	1936.3	1907.9	1856.2	1818.1	1813.1	1873.6	1793.5	1762.6	1731.4
47.5°	1817.2	1853.5	1841.8	1834.6	1829.1	1850.6	1946.3	1894.6	1881.9	1854.9
50°	1619.9	1688.8	1709.3	1754.9	1807.2	1879.7	2012.4	2004.9	2021.4	1994.1
52.5°	1278.9	1373.7	1492.9	1607.1	1740.0	1870.0	2085.1	2163.4	2232.9	2218.0
55°	1055.7	1098.4	1190.0	1399.4	1609.6	1829.1	2117.8	2291.3	2442.8	2429.4
57.5°	884.2	922.4	978.8	1153.7	1412.3	1736.4	2138.1	2369.4	2586.5	2585.2
60°	700.3	740.7	798.5	922.4	1181.9	1576.2	2133.6	2458.3	2770.0	2781.3
62.5°	492.7	537.1	601.2	716.8	946.5	1368.5	2041.5	2522.7	2986.0	3016.7
65°	323.9	353.2	401.5	501.2	705.3	1101.5	1865.7	2531.0	3217.1	3269.0
67.5°	227.0	238.3	266.8	320.9	464.9	844.7	1585.6	2444.6	3371.2	3429.7
70°	177.2	182.8	197.2	218.9	292.0	568.0	1215.1	2219.8	3338.3	3399.2
72.5°	153.0	158.4	163.8	166.6	195.9	350.7	823.1	1856.0	3028.0	3069.3
75°	138.8	140.1	144.7	143.8	149.4	227.5	475.1	1352.3	2389.1	2374.8
77.5°	116.7	118.5	125.9	124.8	132.7	155.5	246.7	872.7	1548.8	1452.3
80°	98.8	99.8	107.9	106.5	115.3	112.6	125.9	444.8	657.0	556.5
82.5°	34.3	42.4	82.4	84.9	88.0	68.2	72.7	181.4	200.6	153.7
85°	16.7	17.8	42.0	59.6	59.4	34.3	35.4	64.8	63.2	49.6
87.5°	2.7	3.4	5.0	23.2	18.5	9.0	12.2	12.6	13.1	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945075
 CATALOG NUMBER: GALN-SB1A-850-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
513.0	0°	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
531.3	2.5°	518.6	507.3	483.6	461.7	444.6	428.1	418.9	411.0	406.5	405.5
556.1	5°	532.6	509.4	466.3	429.9	406.2	388.6	379.4	373.5	370.6	368.8
589.5	7.5°	552.7	518.6	457.2	415.9	391.1	378.5	373.7	372.8	372.6	372.8
629.9	10°	580.4	533.7	456.3	412.5	391.8	384.8	384.6	384.8	385.7	385.9
673.9	12.5°	610.5	549.3	459.9	415.5	400.4	396.5	395.8	395.6	396.3	396.7
718.3	15°	643.2	569.8	466.0	421.8	409.8	405.8	405.1	403.7	403.5	403.3
765.1	17.5°	676.8	590.2	472.8	428.6	415.9	410.3	407.8	404.6	402.2	401.5
813.4	20°	710.9	610.2	477.5	432.0	416.4	408.5	403.5	398.1	393.8	391.3
862.1	22.5°	747.2	631.2	480.5	431.0	412.3	401.5	392.5	386.1	379.6	375.3
911.3	25°	782.7	649.5	480.2	426.3	404.4	390.7	379.1	371.0	362.0	357.5
962.1	27.5°	816.7	666.0	474.6	418.0	393.1	377.8	364.0	354.3	345.5	341.2
1013.3	30°	851.9	679.7	465.8	405.8	379.8	362.9	347.8	339.4	331.5	327.5
1067.5	32.5°	886.9	692.4	453.4	390.7	364.5	348.2	333.3	325.7	320.9	320.9
1125.7	35°	923.9	701.2	436.9	373.0	348.2	332.7	320.9	316.4	316.0	313.2
1187.3	37.5°	963.0	706.8	416.8	355.0	332.2	317.5	313.9	308.5	304.0	298.1
1255.0	40°	1004.1	712.5	392.7	336.3	315.3	307.2	305.6	298.3	285.5	271.0
1331.7	42.5°	1053.9	716.3	367.6	317.5	297.4	294.7	297.0	284.6	264.0	253.2
1424.3	45°	1111.7	722.6	344.6	299.0	279.2	279.2	288.6	272.4	255.5	248.7
1529.9	47.5°	1186.6	737.3	323.2	278.7	262.2	266.8	270.1	257.7	248.2	239.9
1658.5	50°	1295.0	772.5	301.1	258.2	249.4	258.4	253.7	246.4	235.4	228.6
1863.0	52.5°	1429.5	793.3	281.4	239.7	238.3	247.3	240.6	233.8	225.5	216.4
2018.0	55°	1521.1	797.1	264.9	226.1	230.9	230.0	227.5	221.4	216.9	204.9
2171.0	57.5°	1623.5	804.8	251.4	218.0	226.1	216.2	215.3	210.1	204.2	196.1
2357.7	60°	1746.1	816.7	239.7	214.8	222.1	207.2	202.7	200.6	194.8	190.7
2582.2	62.5°	1879.7	827.6	227.7	215.3	217.3	198.4	191.6	190.9	187.3	186.0
2793.0	65°	1970.9	798.0	212.8	214.8	209.9	189.3	180.8	180.5	177.6	177.2
2884.4	67.5°	1939.0	704.3	192.7	208.5	202.2	180.3	170.8	169.9	166.1	166.3
2789.0	70°	1779.7	570.7	165.0	193.0	192.7	172.2	160.5	157.5	152.3	153.2
2424.9	72.5°	1480.9	422.9	127.7	167.0	177.6	164.7	148.5	143.8	137.2	138.1
1790.1	75°	1069.5	287.5	93.0	127.1	154.6	155.9	136.8	128.6	120.7	122.1
996.4	77.5°	547.3	162.9	68.4	87.6	121.4	141.7	126.2	115.3	113.5	126.2
287.3	80°	178.5	81.7	47.4	61.4	79.7	116.0	110.6	98.2	97.7	100.7
60.3	82.5°	53.3	34.5	30.5	40.4	44.0	88.9	95.5	74.2	63.9	67.3
20.1	85°	18.3	16.7	17.4	20.1	21.0	52.1	66.8	49.2	46.5	51.2
4.5	87.5°	4.3	5.9	5.0	4.5	4.5	12.6	26.0	20.5	28.4	19.0
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>
513.0
405.5
368.5
373.5
386.1
397.0
403.1
402.2
392.2
375.5
357.5
341.0
327.2
321.1
312.6
297.2
269.0
253.4
249.8
239.7
227.9
214.6
205.1
193.4
191.8
186.0
176.9
166.3
154.1
137.9
122.5
124.3
86.4
69.5
50.6
18.3
0.0

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