

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: P945369

Luminaire Tested: **GALN-SB1B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945369
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5155 lumens
Efficiency: N/A
Efficacy: 129.5 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

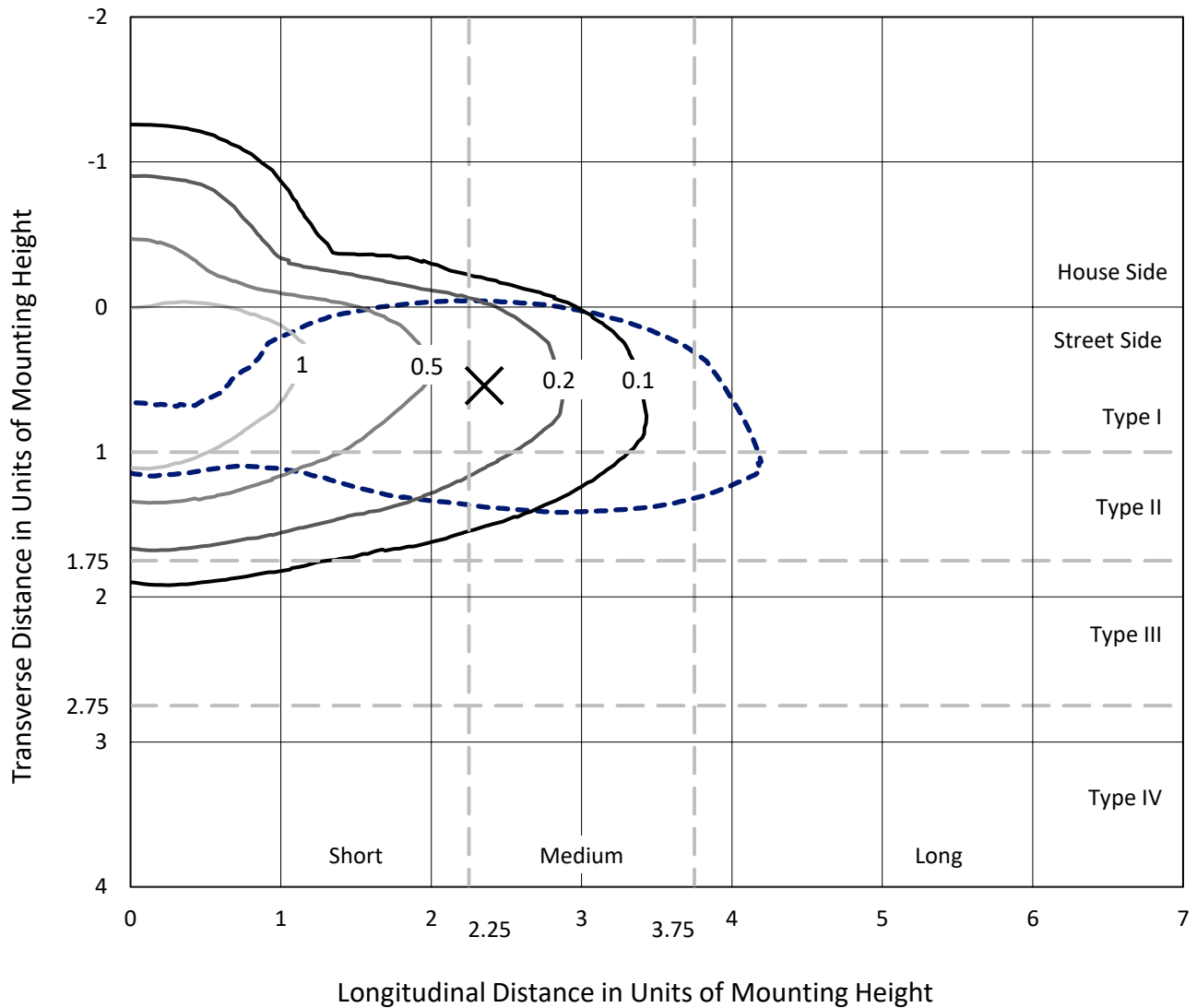
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

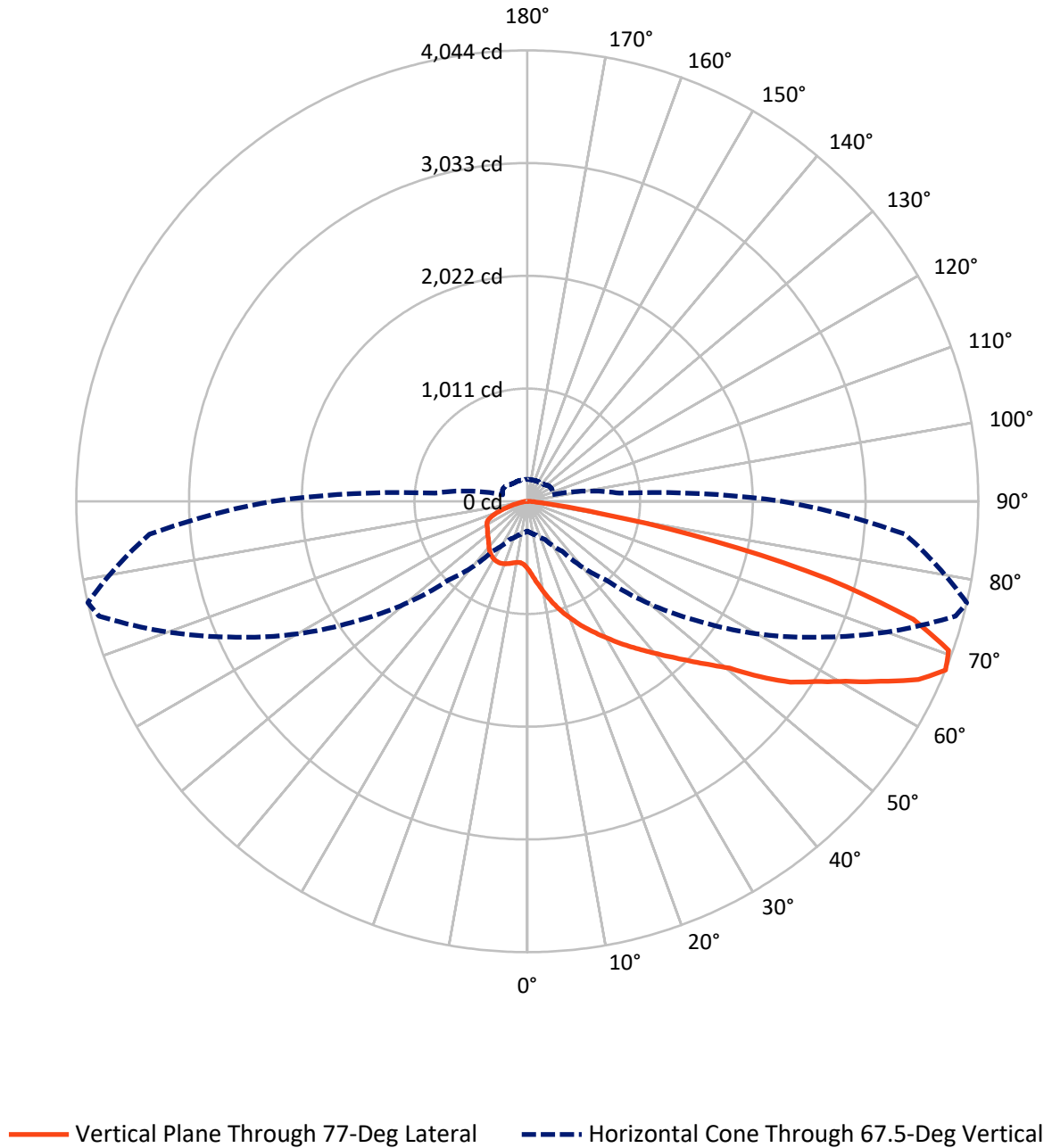
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	975.1	0.0	975.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4179.9	0.0	4179.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	5155.0	0.0	5155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.3
10°-20°	232.9	4.5
20°-30°	439.8	8.5
30°-40°	708.4	13.7
40°-50°	969.0	18.8
50°-60°	1093.1	21.2
60°-70°	1020.2	19.8
70°-80°	559.3	10.8
80°-90°	67.5	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°	5155.0	100.0
0°-180°	5155.0	100.0

Coefficient of Utilization

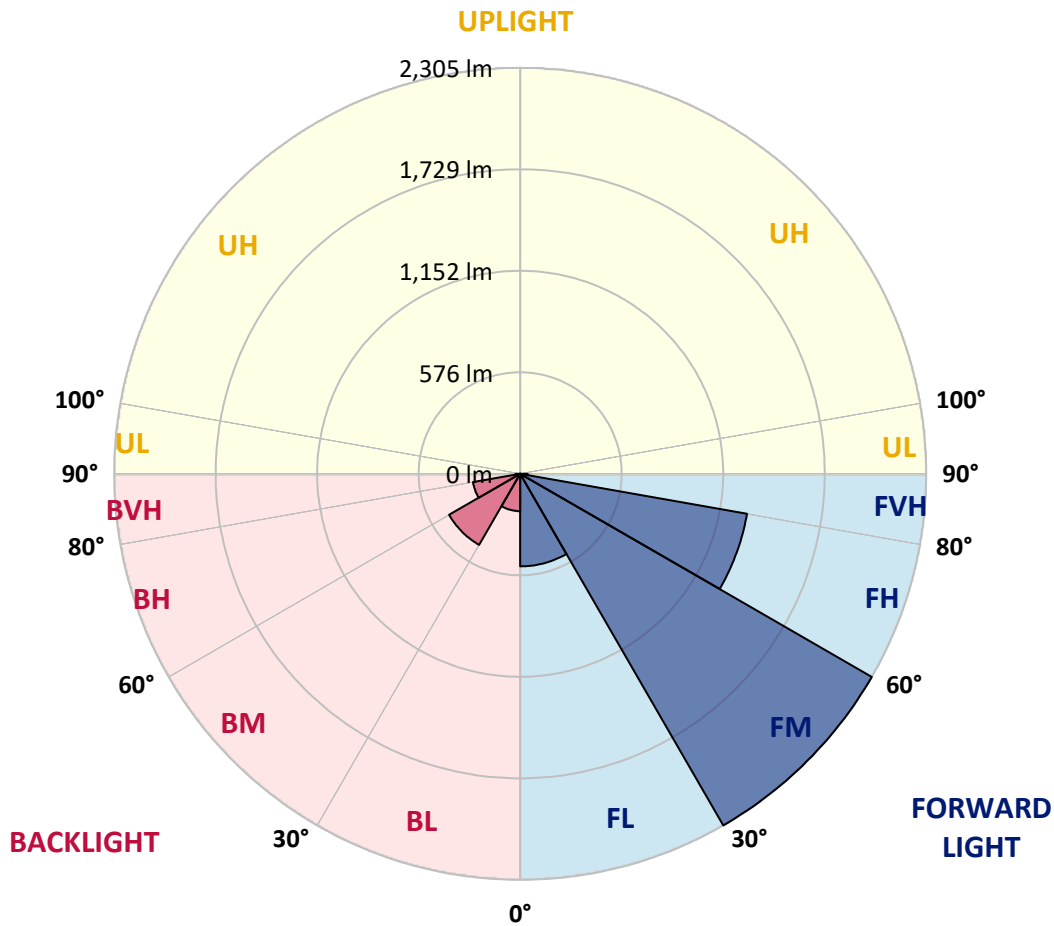


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.5	10.2			
FM (30°-60°)	2304.7	44.7			
FH (60°-80°)	1307.5	25.4			G1/1800
FVH (80°-90°)	42.2	0.8			G1/100
BL (0°-30°)	212.0	4.1	B1/500		
BM (30°-60°)	465.8	9.0	B1/1000		
BH (60°-80°)	272.0	5.3	B1/500		G1/500
BVH (80°-90°)	25.3	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°	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8
2.5°	757.3	762.6	756.0	756.0	733.6	721.9	699.6	682.5	651.9	646.6
5°	895.2	901.8	892.5	888.5	862.2	837.9	800.4	763.4	708.9	703.3
7.5°	1001.9	1010.4	1002.1	997.9	974.5	947.3	903.4	851.8	774.9	764.0
10°	1088.9	1090.2	1087.5	1089.1	1070.8	1048.4	1003.5	943.3	847.3	832.4
12.5°	1138.1	1144.2	1149.5	1159.1	1155.9	1142.1	1101.6	1029.8	923.9	904.7
15°	1161.3	1171.9	1183.9	1206.0	1223.8	1227.2	1196.4	1122.7	1001.9	978.7
17.5°	1169.5	1179.6	1198.5	1230.4	1268.8	1294.6	1280.7	1212.9	1079.0	1052.4
20°	1211.3	1214.2	1225.6	1256.0	1297.5	1340.3	1350.7	1299.6	1155.4	1125.3
22.5°	1300.7	1294.8	1298.0	1311.9	1341.7	1383.2	1406.9	1376.3	1233.9	1199.3
25°	1448.4	1431.3	1414.3	1398.3	1413.5	1436.9	1463.8	1452.9	1316.1	1272.2
27.5°	1634.9	1614.2	1576.6	1524.2	1505.9	1514.1	1526.1	1523.9	1392.2	1347.8
30°	1818.5	1794.3	1749.6	1673.8	1625.3	1603.5	1594.5	1588.3	1475.0	1427.6
32.5°	1965.1	1946.0	1902.1	1817.2	1746.9	1709.7	1679.6	1657.8	1561.5	1514.1
35°	2093.4	2075.6	2025.3	1932.7	1856.3	1816.7	1777.3	1730.7	1651.4	1603.5
37.5°	2210.5	2192.7	2123.7	2027.4	1950.5	1923.1	1888.0	1808.9	1741.6	1696.4
40°	2284.5	2280.5	2216.1	2107.0	2027.1	2013.6	2001.9	1899.7	1841.7	1799.6
42.5°	2303.3	2312.1	2261.0	2171.4	2095.3	2084.3	2111.8	2002.4	1954.0	1913.8
45°	2257.8	2283.1	2249.6	2188.7	2143.7	2137.8	2209.1	2114.7	2078.2	2041.5
47.5°	2142.6	2185.5	2171.6	2163.1	2156.7	2182.0	2294.8	2233.9	2219.0	2187.1
50°	1910.1	1991.2	2015.4	2069.2	2130.9	2216.3	2372.8	2364.0	2383.4	2351.2
52.5°	1508.0	1619.7	1760.2	1894.9	2051.6	2204.9	2458.5	2550.8	2632.8	2615.2
55°	1244.8	1295.1	1403.1	1650.1	1897.8	2156.7	2497.1	2701.7	2880.2	2864.5
57.5°	1042.6	1087.5	1154.1	1360.3	1665.2	2047.4	2521.0	2793.8	3049.8	3048.2
60°	825.7	873.3	941.5	1087.5	1393.6	1858.4	2515.7	2898.6	3266.1	3279.4
62.5°	580.9	633.3	708.9	845.1	1116.0	1613.6	2407.1	2974.4	3520.7	3556.9
65°	381.9	416.4	473.4	591.0	831.6	1298.8	2199.8	2984.3	3793.2	3854.4
67.5°	267.7	281.0	314.5	378.4	548.2	996.0	1869.6	2882.4	3975.0	4043.9
70°	208.9	215.5	232.6	258.1	344.3	669.8	1432.7	2617.3	3936.1	4008.0
72.5°	180.4	186.8	193.2	196.4	231.0	413.5	970.5	2188.4	3570.2	3618.9
75°	163.7	165.2	170.6	169.5	176.2	268.2	560.1	1594.5	2816.9	2800.2
77.5°	137.6	139.7	148.5	147.2	156.5	183.3	290.8	1029.0	1826.2	1712.3
80°	116.6	117.6	127.2	125.6	136.0	132.8	148.5	524.5	774.6	656.2
82.5°	40.4	50.0	97.1	100.1	103.8	80.4	85.7	213.9	236.6	181.2
85°	19.7	21.0	49.5	70.2	70.0	40.4	41.8	76.4	74.5	58.5
87.5°	3.2	4.0	5.9	27.4	21.8	10.6	14.4	14.9	15.4	13.3
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°
604.8	0°	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8	604.8
626.4	2.5°	611.5	598.2	570.2	544.4	524.2	504.8	493.9	484.6	479.2	478.2
655.7	5°	628.0	600.6	549.8	506.9	479.0	458.2	447.3	440.4	436.9	434.8
695.0	7.5°	651.7	611.5	539.1	490.4	461.1	446.2	440.7	439.6	439.3	439.6
742.7	10°	684.4	629.3	538.1	486.4	461.9	453.7	453.4	453.7	454.8	455.0
794.6	12.5°	719.8	647.7	542.3	489.9	472.1	467.5	466.7	466.5	467.3	467.8
847.0	15°	758.4	671.9	549.5	497.3	483.2	478.4	477.6	476.1	475.8	475.5
902.1	17.5°	798.0	695.8	557.5	505.3	490.4	483.8	480.8	477.1	474.2	473.4
959.0	20°	838.2	719.5	563.1	509.3	491.0	481.6	475.8	469.4	464.3	461.4
1016.5	22.5°	881.1	744.3	566.5	508.2	486.2	473.4	462.7	455.3	447.6	442.5
1074.5	25°	922.8	765.8	566.3	502.7	476.8	460.6	447.0	437.5	426.8	421.5
1134.4	27.5°	963.0	785.3	559.6	492.8	463.5	445.4	429.2	417.8	407.4	402.3
1194.8	30°	1004.5	801.5	549.2	478.4	447.8	427.9	410.1	400.2	390.9	386.1
1258.6	32.5°	1045.8	816.4	534.6	460.6	429.7	410.6	393.0	384.0	378.4	378.4
1327.3	35°	1089.4	826.8	515.2	439.9	410.6	392.2	378.4	373.1	372.5	369.3
1399.9	37.5°	1135.4	833.4	491.5	418.6	391.7	374.4	370.1	363.8	358.4	351.5
1479.8	40°	1183.9	840.1	463.0	396.5	371.7	362.2	360.3	351.8	336.6	319.6
1570.2	42.5°	1242.7	844.6	433.5	374.4	350.7	347.5	350.2	335.6	311.3	298.6
1679.3	45°	1310.8	852.0	406.3	352.6	329.2	329.2	340.3	321.2	301.2	293.2
1803.9	47.5°	1399.1	869.3	381.1	328.6	309.2	314.5	318.5	303.9	292.7	282.9
1955.6	50°	1526.9	910.9	355.0	304.4	294.0	304.7	299.1	290.6	277.5	269.6
2196.6	52.5°	1685.5	935.3	331.8	282.6	281.0	291.6	283.7	275.7	265.8	255.2
2379.5	55°	1793.5	939.9	312.4	266.6	272.2	271.2	268.2	261.0	255.7	241.6
2559.9	57.5°	1914.3	948.9	296.4	257.1	266.6	254.9	253.9	247.7	240.8	231.2
2779.9	60°	2058.8	963.0	282.6	253.3	261.8	244.3	239.0	236.6	229.6	224.9
3044.7	62.5°	2216.3	975.8	268.5	253.9	256.3	233.9	225.9	225.1	220.9	219.3
3293.2	65°	2323.8	940.9	250.9	253.3	247.5	223.3	213.1	212.9	209.4	208.9
3401.0	67.5°	2286.3	830.5	227.2	245.9	238.4	212.6	201.4	200.4	195.8	196.1
3288.4	70°	2098.5	673.0	194.5	227.5	227.2	203.0	189.2	185.7	179.6	180.7
2859.2	72.5°	1746.1	498.7	150.6	196.9	209.4	194.3	175.1	169.5	161.8	162.9
2110.7	75°	1261.0	339.0	109.6	149.8	182.3	183.9	161.3	151.7	142.4	144.0
1174.8	77.5°	645.3	192.1	80.6	103.2	143.2	167.1	148.7	136.0	133.8	148.7
338.7	80°	210.5	96.3	55.9	72.4	93.9	136.8	130.4	115.8	115.2	118.7
71.0	82.5°	62.8	40.7	35.9	47.6	51.9	104.8	112.6	87.5	75.3	79.3
23.7	85°	21.6	19.7	20.5	23.7	24.7	61.5	78.8	58.0	54.8	60.4
5.3	87.5°	5.1	6.9	5.9	5.3	5.3	14.9	30.6	24.2	33.5	22.4
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>
604.8
478.2
434.5
440.4
455.3
468.1
475.3
474.2
462.5
442.8
421.5
402.1
385.8
378.7
368.5
350.5
317.2
298.8
294.6
282.6
268.8
253.1
241.9
228.0
226.2
219.3
208.6
196.1
181.7
162.6
144.5
146.6
101.9
82.0
59.6
21.6
0.0

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