

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: P945348

Luminaire Tested: **GALN-SB1B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945348
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-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989 lumens
Efficiency: N/A
Efficacy: 125.4 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

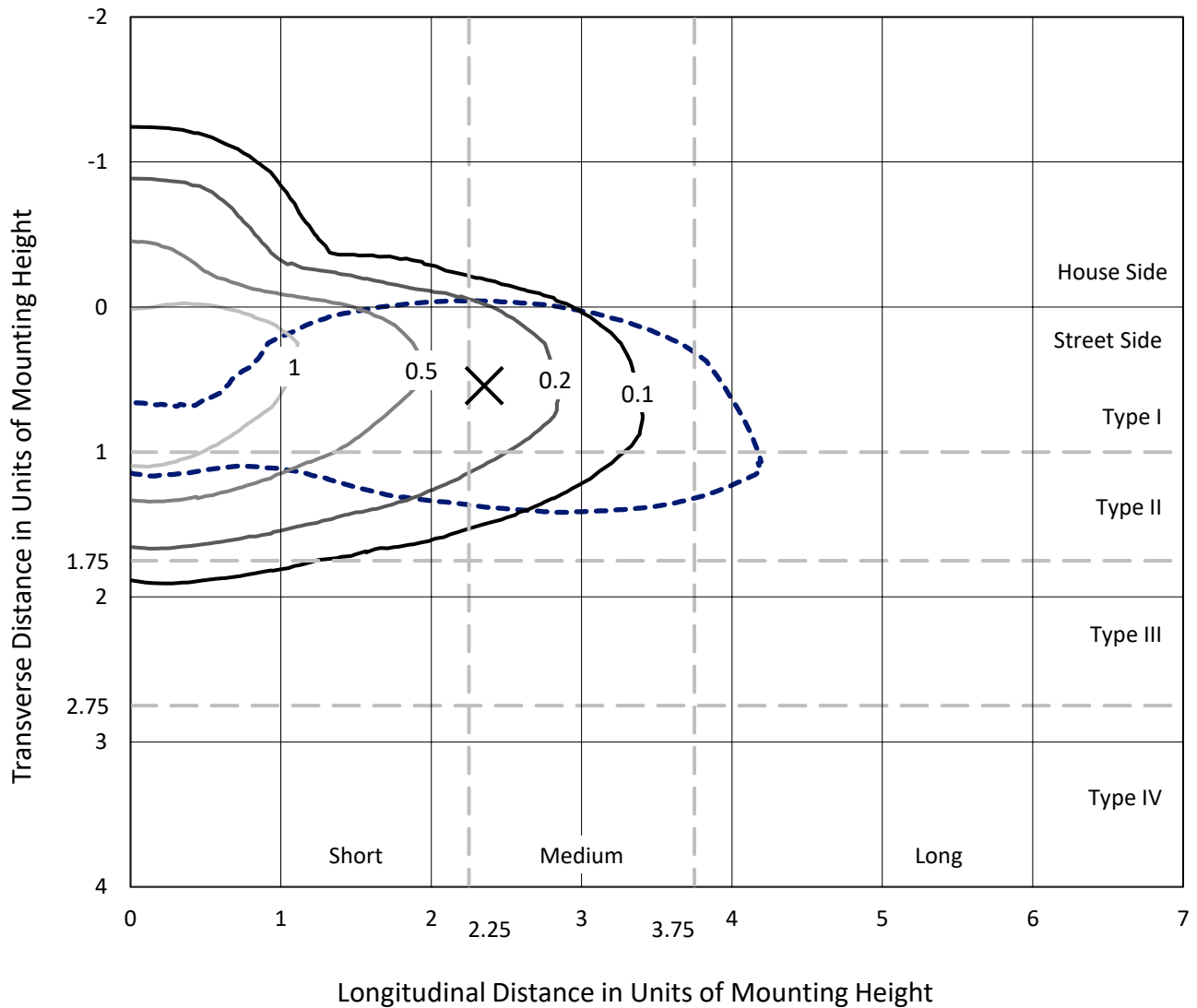
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

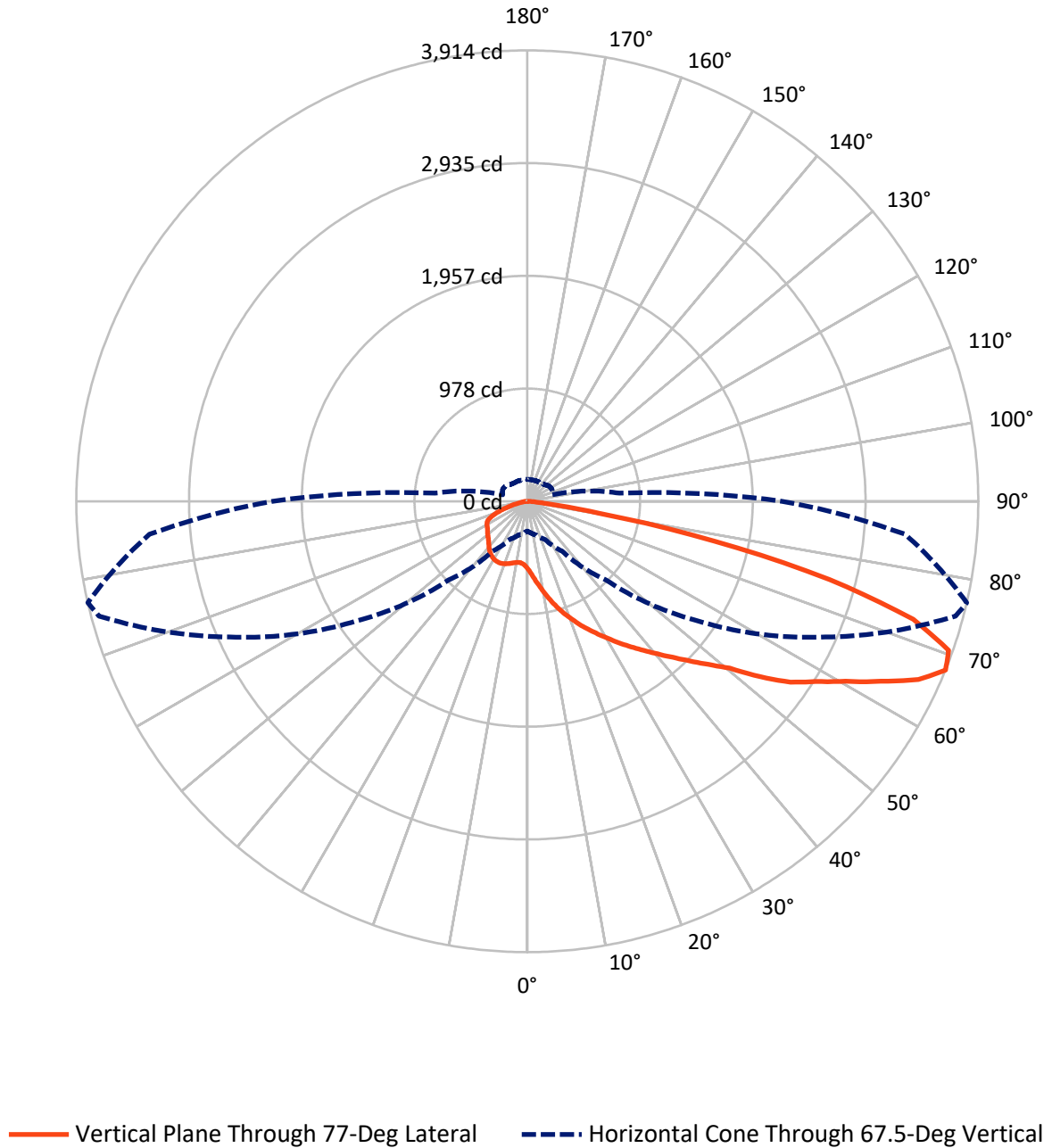
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	943.7	0.0	943.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4045.3	0.0	4045.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	4989.0	0.0	4989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.3
10°-20°	225.4	4.5
20°-30°	425.6	8.5
30°-40°	685.6	13.7
40°-50°	937.8	18.8
50°-60°	1057.9	21.2
60°-70°	987.4	19.8
70°-80°	541.3	10.8
80°-90°	65.3	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°	4989.0	100.0
0°-180°	4989.0	100.0

Coefficient of Utilization



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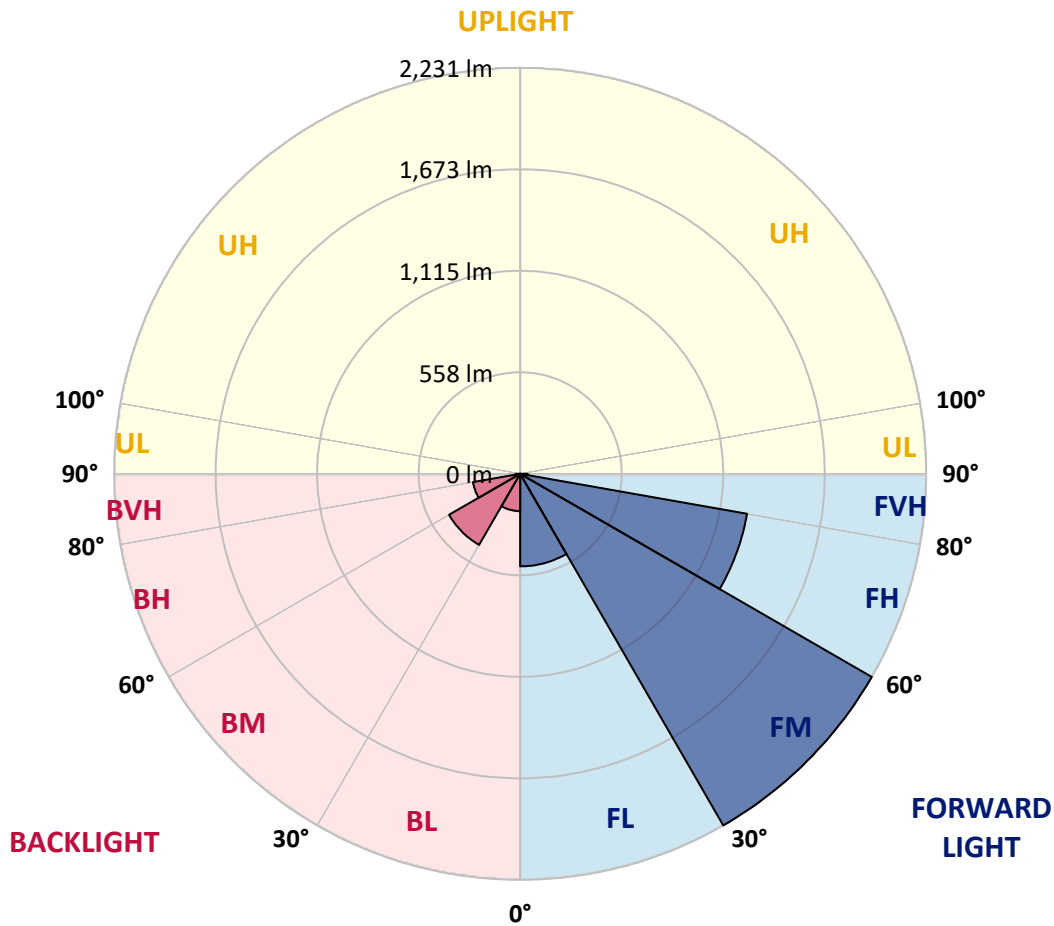
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.6	10.2			
FM (30°-60°)	2230.5	44.7			
FH (60°-80°)	1265.4	25.4			G1/1800
FVH (80°-90°)	40.8	0.8			G1/100
BL (0°-30°)	205.2	4.1	B1/500		
BM (30°-60°)	450.8	9.0	B1/1000		
BH (60°-80°)	263.3	5.3	B1/500		G1/500
BVH (80°-90°)	24.5	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°	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
2.5°	732.9	738.1	731.6	731.6	710.0	698.7	677.0	660.6	630.9	625.8
5°	866.3	872.8	863.8	859.9	834.4	811.0	774.6	738.9	686.1	680.7
7.5°	969.6	977.8	969.9	965.7	943.1	916.8	874.3	824.4	749.9	739.4
10°	1053.8	1055.1	1052.5	1054.1	1036.3	1014.7	971.1	912.9	820.0	805.6
12.5°	1101.5	1107.4	1112.5	1121.8	1118.7	1105.3	1066.2	996.6	894.1	875.6
15°	1123.9	1134.2	1145.7	1167.1	1184.4	1187.7	1157.9	1086.5	969.6	947.2
17.5°	1131.8	1141.6	1159.9	1190.8	1227.9	1252.9	1239.5	1173.8	1044.3	1018.5
20°	1172.3	1175.1	1186.2	1215.5	1255.7	1297.2	1307.2	1257.8	1118.2	1089.1
22.5°	1258.8	1253.1	1256.2	1269.6	1298.5	1338.6	1361.6	1331.9	1194.2	1160.7
25°	1401.7	1385.3	1368.8	1353.3	1368.0	1390.7	1416.7	1406.1	1273.7	1231.2
27.5°	1582.3	1562.2	1525.9	1475.1	1457.4	1465.3	1476.9	1474.9	1347.4	1304.4
30°	1760.0	1736.5	1693.3	1619.9	1573.0	1551.9	1543.1	1537.2	1427.5	1381.6
32.5°	1901.9	1883.3	1840.8	1758.7	1690.7	1654.6	1625.5	1604.4	1511.2	1465.3
35°	2026.0	2008.7	1960.1	1870.4	1796.5	1758.2	1720.0	1675.0	1598.2	1551.9
37.5°	2139.3	2122.0	2055.3	1962.1	1887.7	1861.2	1827.2	1750.7	1685.5	1641.8
40°	2210.9	2207.0	2144.7	2039.1	1961.9	1948.7	1937.4	1838.5	1782.4	1741.7
42.5°	2229.2	2237.7	2188.2	2101.4	2027.8	2017.2	2043.8	1937.9	1891.0	1852.2
45°	2185.1	2209.6	2177.2	2118.2	2074.7	2069.0	2138.0	2046.6	2011.3	1975.8
47.5°	2073.6	2115.1	2101.7	2093.5	2087.3	2111.7	2220.9	2162.0	2147.5	2116.6
50°	1848.5	1927.1	1950.5	2002.5	2062.3	2145.0	2296.4	2287.9	2306.7	2275.5
52.5°	1459.4	1567.6	1703.6	1833.9	1985.6	2133.9	2379.3	2468.7	2548.0	2531.0
55°	1204.7	1253.4	1358.0	1596.9	1836.7	2087.3	2416.7	2614.7	2787.5	2772.3
57.5°	1009.0	1052.5	1116.9	1316.5	1611.6	1981.4	2439.8	2703.8	2951.5	2950.0
60°	799.1	845.2	911.1	1052.5	1348.7	1798.6	2434.7	2805.3	3160.9	3173.8
62.5°	562.2	612.9	686.1	817.9	1080.1	1561.7	2329.6	2878.7	3407.4	3442.4
65°	369.6	403.0	458.1	572.0	804.8	1257.0	2129.0	2888.2	3671.1	3730.3
67.5°	259.1	272.0	304.4	366.2	530.5	963.9	1809.4	2789.6	3847.0	3913.7
70°	202.2	208.6	225.1	249.8	333.2	648.2	1386.5	2533.1	3809.4	3878.9
72.5°	174.6	180.8	187.0	190.1	223.5	400.2	939.2	2117.9	3455.3	3502.4
75°	158.4	159.9	165.1	164.0	170.5	259.6	542.1	1543.1	2726.2	2710.0
77.5°	133.1	135.2	143.7	142.4	151.4	177.4	281.5	995.9	1767.4	1657.2
80°	112.8	113.8	123.1	121.6	131.6	128.5	143.7	507.6	749.7	635.1
82.5°	39.1	48.4	94.0	96.8	100.4	77.8	82.9	207.1	228.9	175.4
85°	19.1	20.3	47.9	68.0	67.7	39.1	40.4	73.9	72.1	56.7
87.5°	3.1	3.9	5.7	26.5	21.1	10.3	13.9	14.4	14.9	12.9
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°
585.4	0°	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
606.2	2.5°	591.8	578.9	551.9	526.9	507.3	488.5	478.0	469.0	463.8	462.8
634.6	5°	607.8	581.2	532.1	490.6	463.6	443.5	432.9	426.2	422.9	420.8
672.7	7.5°	630.7	591.8	521.8	474.6	446.3	431.9	426.5	425.4	425.2	425.4
718.8	10°	662.4	609.1	520.7	470.8	447.1	439.1	438.8	439.1	440.1	440.4
769.0	12.5°	696.6	626.8	524.8	474.1	456.9	452.5	451.7	451.4	452.2	452.7
819.7	15°	734.0	650.3	531.8	481.3	467.7	463.0	462.3	460.7	460.5	460.2
873.0	17.5°	772.3	673.4	539.5	489.0	474.6	468.2	465.4	461.8	458.9	458.1
928.1	20°	811.2	696.4	544.9	492.9	475.1	466.1	460.5	454.3	449.4	446.6
983.8	22.5°	852.7	720.3	548.3	491.9	470.5	458.1	447.8	440.6	433.2	428.3
1039.9	25°	893.1	741.2	548.0	486.5	461.5	445.8	432.6	423.4	413.1	407.9
1097.8	27.5°	932.0	760.0	541.6	476.9	448.6	431.1	415.4	404.3	394.3	389.4
1156.3	30°	972.2	775.7	531.5	463.0	433.4	414.1	396.9	387.3	378.3	373.7
1218.1	32.5°	1012.1	790.1	517.4	445.8	415.9	397.4	380.4	371.6	366.2	366.2
1284.6	35°	1054.3	800.1	498.6	425.7	397.4	379.6	366.2	361.1	360.5	357.5
1354.9	37.5°	1098.9	806.6	475.7	405.1	379.1	362.3	358.2	352.0	346.9	340.2
1432.1	40°	1145.7	813.0	448.1	383.7	359.8	350.5	348.7	340.5	325.8	309.3
1519.7	42.5°	1202.7	817.4	419.5	362.3	339.4	336.3	338.9	324.7	301.3	288.9
1625.3	45°	1268.6	824.6	393.2	341.2	318.6	318.6	329.4	310.8	291.5	283.8
1745.8	47.5°	1354.1	841.3	368.8	318.0	299.2	304.4	308.3	294.1	283.3	273.8
1892.6	50°	1477.7	881.5	343.5	294.6	284.6	294.9	289.5	281.2	268.6	260.9
2125.9	52.5°	1631.2	905.2	321.1	273.5	272.0	282.3	274.5	266.8	257.3	247.0
2302.8	55°	1735.7	909.6	302.3	258.0	263.5	262.4	259.6	252.6	247.5	233.8
2477.4	57.5°	1852.7	918.4	286.9	248.8	258.0	246.7	245.7	239.8	233.1	223.8
2690.4	60°	1992.5	932.0	273.5	245.2	253.4	236.4	231.3	228.9	222.2	217.6
2946.7	62.5°	2145.0	944.4	259.8	245.7	248.0	226.4	218.6	217.9	213.7	212.2
3187.2	65°	2249.0	910.6	242.9	245.2	239.5	216.1	206.3	206.0	202.7	202.2
3291.5	67.5°	2212.7	803.7	219.9	238.0	230.7	205.8	194.9	193.9	189.5	189.8
3182.6	70°	2030.9	651.3	188.3	220.2	219.9	196.5	183.1	179.8	173.8	174.9
2767.2	72.5°	1689.9	482.6	145.8	190.6	202.7	188.0	169.5	164.0	156.6	157.6
2042.7	75°	1220.4	328.1	106.1	145.0	176.4	178.0	156.1	146.8	137.8	139.3
1137.0	77.5°	624.5	185.9	78.0	99.9	138.6	161.7	144.0	131.6	129.5	144.0
327.8	80°	203.7	93.2	54.1	70.0	90.9	132.4	126.2	112.0	111.5	114.9
68.8	82.5°	60.8	39.4	34.8	46.1	50.2	101.5	108.9	84.7	72.9	76.7
22.9	85°	20.9	19.1	19.8	22.9	24.0	59.5	76.2	56.1	53.1	58.5
5.2	87.5°	4.9	6.7	5.7	5.2	5.2	14.4	29.6	23.4	32.4	21.6
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>
585.4
462.8
420.5
426.2
440.6
453.0
459.9
458.9
447.6
428.5
407.9
389.1
373.4
366.5
356.7
339.2
307.0
289.2
285.1
273.5
260.1
244.9
234.1
220.7
218.9
212.2
201.9
189.8
175.9
157.4
139.8
141.9
98.6
79.3
57.7
20.9
0.0

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