

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: P945432

Luminaire Tested: **GALN-SB1B-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945432
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-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5488 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

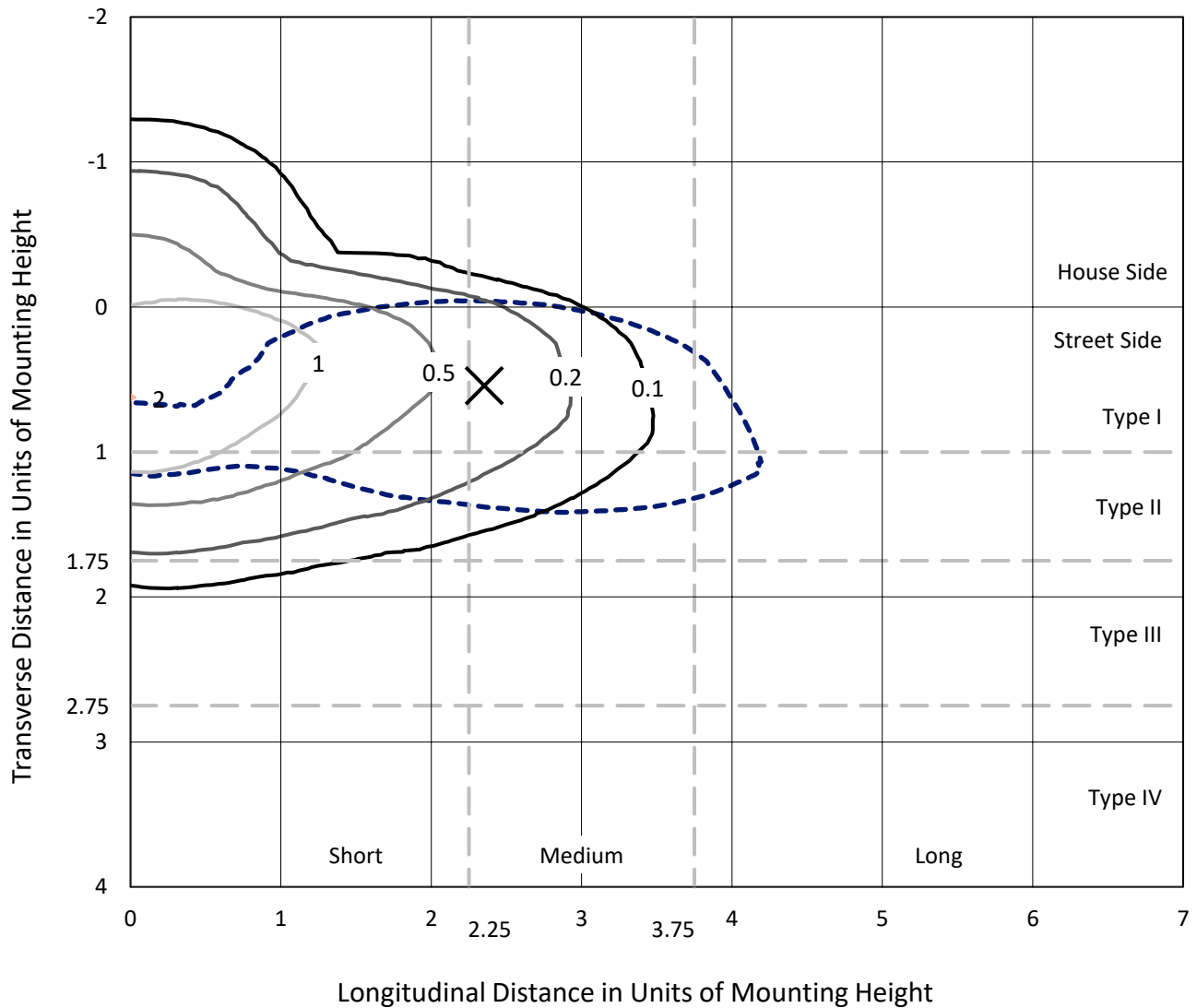
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

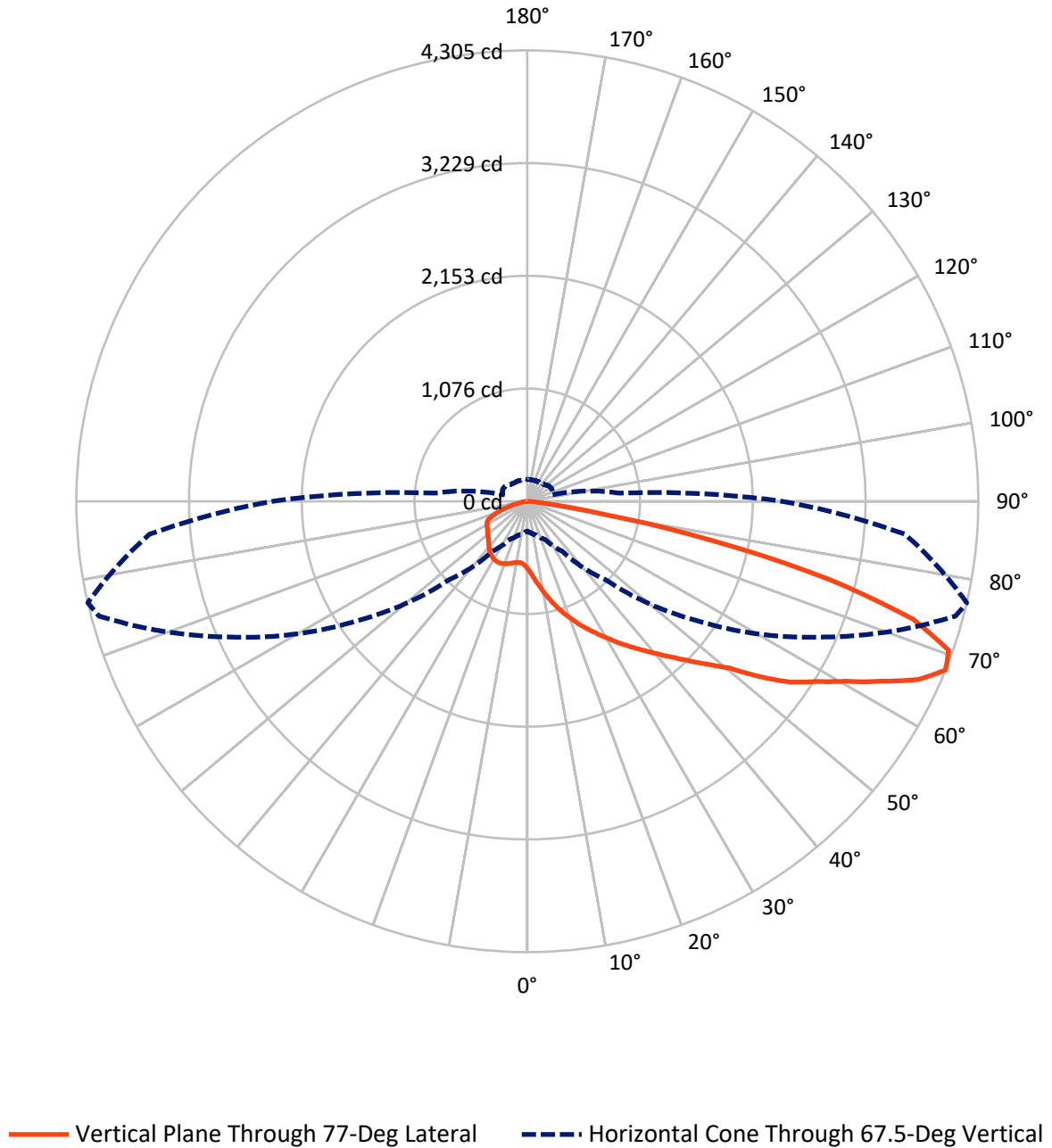
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1038.1	0.0	1038.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4449.9	0.0	4449.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	5488.0	0.0	5488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.3
10°-20°	248.0	4.5
20°-30°	468.2	8.5
30°-40°	754.2	13.7
40°-50°	1031.6	18.8
50°-60°	1163.7	21.2
60°-70°	1086.1	19.8
70°-80°	595.4	10.8
80°-90°	71.8	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°	5488.0	100.0
0°-180°	5488.0	100.0

Coefficient of Utilization



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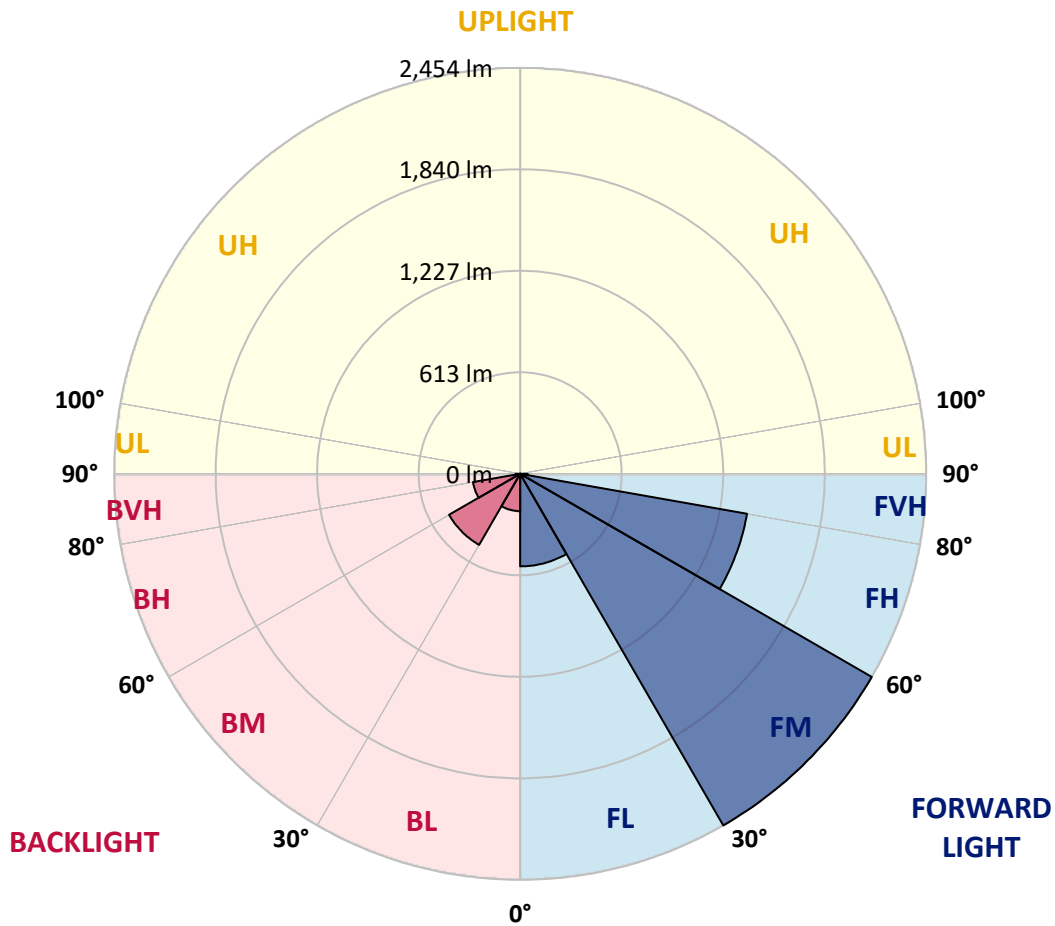
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.4	10.2			
FM (30°-60°)	2453.6	44.7			
FH (60°-80°)	1391.9	25.4			G1/1800
FVH (80°-90°)	44.9	0.8			G1/100
BL (0°-30°)	225.7	4.1	B1/500		
BM (30°-60°)	495.9	9.0	B1/1000		
BH (60°-80°)	289.6	5.3	B1/500		G1/500
BVH (80°-90°)	26.9	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°	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9
2.5°	806.2	811.9	804.8	804.8	781.0	768.6	744.8	726.6	694.1	688.4
5°	953.0	960.1	950.1	945.9	917.9	892.1	852.1	812.8	754.7	748.7
7.5°	1066.6	1075.6	1066.9	1062.3	1037.4	1008.5	961.8	906.8	824.9	813.3
10°	1159.2	1160.6	1157.8	1159.5	1139.9	1116.2	1068.3	1004.3	902.0	886.1
12.5°	1211.6	1218.1	1223.8	1234.0	1230.6	1215.9	1172.8	1096.3	983.6	963.2
15°	1236.3	1247.6	1260.3	1283.9	1302.8	1306.5	1273.7	1195.2	1066.6	1041.9
17.5°	1245.0	1255.8	1275.9	1309.9	1350.7	1378.2	1363.5	1291.2	1148.7	1120.4
20°	1289.5	1292.6	1304.8	1337.1	1381.3	1426.9	1438.0	1383.6	1230.0	1198.0
22.5°	1384.7	1378.5	1381.9	1396.6	1428.3	1472.5	1497.7	1465.2	1313.6	1276.8
25°	1541.9	1523.8	1505.7	1488.7	1504.8	1529.8	1558.4	1546.8	1401.1	1354.4
27.5°	1740.5	1718.4	1678.5	1622.7	1603.1	1611.9	1624.7	1622.4	1482.2	1434.9
30°	1936.0	1910.2	1862.6	1781.9	1730.3	1707.1	1697.5	1690.9	1570.3	1519.8
32.5°	2092.1	2071.7	2024.9	1934.6	1859.8	1820.1	1788.1	1764.9	1662.3	1611.9
35°	2228.6	2209.6	2156.1	2057.5	1976.2	1934.0	1892.1	1842.5	1758.1	1707.1
37.5°	2353.3	2334.3	2260.9	2158.4	2076.5	2047.3	2009.9	1925.8	1854.1	1806.0
40°	2432.0	2427.8	2359.2	2243.1	2158.1	2143.6	2131.2	2022.4	1960.6	1915.9
42.5°	2452.1	2461.5	2407.1	2311.6	2230.6	2219.0	2248.2	2131.7	2080.2	2037.4
45°	2403.7	2430.6	2394.9	2330.0	2282.2	2275.9	2351.9	2251.3	2212.5	2173.4
47.5°	2281.0	2326.6	2311.9	2302.8	2296.0	2323.0	2443.1	2378.2	2362.3	2328.3
50°	2033.4	2119.8	2145.6	2202.8	2268.6	2359.5	2526.1	2516.7	2537.4	2503.1
52.5°	1605.4	1724.4	1873.9	2017.3	2184.1	2347.3	2617.3	2715.6	2802.8	2784.2
55°	1325.2	1378.8	1493.8	1756.7	2020.4	2296.0	2658.4	2876.2	3066.3	3049.6
57.5°	1109.9	1157.8	1228.6	1448.2	1772.8	2179.6	2683.9	2974.2	3246.8	3245.1
60°	879.0	929.8	1002.3	1157.8	1483.6	1978.5	2678.2	3085.9	3477.1	3491.2
62.5°	618.4	674.2	754.7	899.7	1188.1	1717.9	2562.6	3166.6	3748.2	3786.7
65°	406.5	443.3	504.0	629.2	885.3	1382.7	2341.9	3177.1	4038.3	4103.4
67.5°	285.0	299.2	334.8	402.8	583.6	1060.3	1990.4	3068.6	4231.8	4305.1
70°	222.4	229.5	247.6	274.8	366.6	713.0	1525.2	2786.4	4190.4	4266.9
72.5°	192.1	198.9	205.7	209.1	245.9	440.2	1033.2	2329.8	3800.9	3852.7
75°	174.2	175.9	181.6	180.5	187.5	285.6	596.3	1697.5	2998.9	2981.0
77.5°	146.5	148.7	158.1	156.7	166.6	195.2	309.6	1095.5	1944.2	1823.0
80°	124.1	125.2	135.4	133.7	144.8	141.4	158.1	558.4	824.7	698.6
82.5°	43.1	53.3	103.4	106.5	110.5	85.6	91.2	227.8	251.8	192.9
85°	21.0	22.4	52.7	74.8	74.5	43.1	44.5	81.3	79.3	62.3
87.5°	3.4	4.2	6.2	29.2	23.2	11.3	15.3	15.9	16.4	14.2
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°
643.9	0°	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9
666.9	2.5°	651.0	636.8	607.1	579.6	558.1	537.4	525.8	515.9	510.2	509.1
698.0	5°	668.6	639.4	585.3	539.7	509.9	487.8	476.2	468.8	465.2	462.9
739.9	7.5°	693.8	651.0	573.9	522.1	490.9	475.1	469.1	468.0	467.7	468.0
790.7	10°	728.6	670.0	572.8	517.8	491.8	483.0	482.7	483.0	484.1	484.4
845.9	12.5°	766.3	689.5	577.3	521.5	502.6	497.7	496.9	496.6	497.5	498.0
901.7	15°	807.4	715.3	585.0	529.5	514.5	509.4	508.5	506.8	506.5	506.2
960.3	17.5°	849.6	740.8	593.5	538.0	522.1	515.0	511.9	507.9	504.8	504.0
1021.0	20°	892.4	766.0	599.4	542.2	522.7	512.8	506.5	499.7	494.3	491.2
1082.2	22.5°	938.0	792.4	603.1	541.1	517.6	504.0	492.6	484.7	476.5	471.1
1143.9	25°	982.4	815.3	602.8	535.1	507.7	490.4	475.9	465.7	454.4	448.7
1207.7	27.5°	1025.2	836.0	595.8	524.6	493.5	474.2	456.9	444.8	433.7	428.3
1272.0	30°	1069.4	853.3	584.7	509.4	476.8	455.5	436.5	426.1	416.1	411.1
1340.0	32.5°	1113.3	869.1	569.1	490.4	457.5	437.1	418.4	408.8	402.8	402.8
1413.0	35°	1159.8	880.2	548.4	468.3	437.1	417.6	402.8	397.2	396.6	393.2
1490.4	37.5°	1208.8	887.3	523.2	445.6	417.0	398.6	394.1	387.3	381.6	374.2
1575.4	40°	1260.3	894.3	492.9	422.1	395.8	385.6	383.6	374.5	358.4	340.2
1671.7	42.5°	1323.0	899.2	461.5	398.6	373.4	370.0	372.8	357.2	331.4	317.8
1787.8	45°	1395.5	907.1	432.6	375.4	350.4	350.4	362.3	341.9	320.7	312.2
1920.4	47.5°	1489.5	925.5	405.7	349.9	329.2	334.8	339.1	323.5	311.6	301.1
2081.9	50°	1625.5	969.7	377.9	324.1	313.0	324.4	318.4	309.4	295.5	287.0
2338.5	52.5°	1794.3	995.8	353.3	300.9	299.2	310.5	302.0	293.5	283.0	271.7
2533.2	55°	1909.4	1000.6	332.6	283.9	289.8	288.7	285.6	277.9	272.2	257.2
2725.2	57.5°	2038.0	1010.2	315.6	273.7	283.9	271.4	270.3	263.7	256.4	246.2
2959.5	60°	2191.8	1025.2	300.9	269.7	278.8	260.1	254.4	251.8	244.5	239.4
3241.4	62.5°	2359.5	1038.8	285.8	270.3	272.8	249.0	240.5	239.7	235.1	233.4
3506.0	65°	2474.0	1001.7	267.1	269.7	263.5	237.7	226.9	226.6	222.9	222.4
3620.7	67.5°	2434.0	884.1	241.9	261.8	253.8	226.3	214.4	213.3	208.5	208.8
3500.9	70°	2234.0	716.4	207.1	242.2	241.9	216.1	201.4	197.7	191.2	192.4
3043.9	72.5°	1858.9	530.9	160.3	209.6	222.9	206.8	186.4	180.5	172.2	173.4
2247.0	75°	1342.5	360.9	116.7	159.5	194.1	195.8	171.7	161.5	151.6	153.3
1250.7	77.5°	687.0	204.5	85.8	109.9	152.4	177.9	158.4	144.8	142.5	158.4
360.6	80°	224.1	102.6	59.5	77.1	100.0	145.6	138.8	123.2	122.7	126.3
75.6	82.5°	66.9	43.3	38.2	50.7	55.2	111.6	119.8	93.2	80.2	84.4
25.2	85°	22.9	21.0	21.8	25.2	26.3	65.4	83.9	61.8	58.4	64.3
5.7	87.5°	5.4	7.4	6.2	5.7	5.7	15.9	32.6	25.8	35.7	23.8
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>
643.9
509.1
462.6
468.8
484.7
498.3
506.0
504.8
492.4
471.4
448.7
428.0
410.8
403.1
392.4
373.1
337.7
318.1
313.6
300.9
286.1
269.4
257.5
242.8
240.8
233.4
222.1
208.8
193.5
173.1
153.8
156.1
108.5
87.3
63.5
22.9
0.0

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