

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: P945873

Luminaire Tested: **GALN-SB1C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945873
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-SB1C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5529 lumens
Efficiency: N/A
Efficacy: 101.6 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

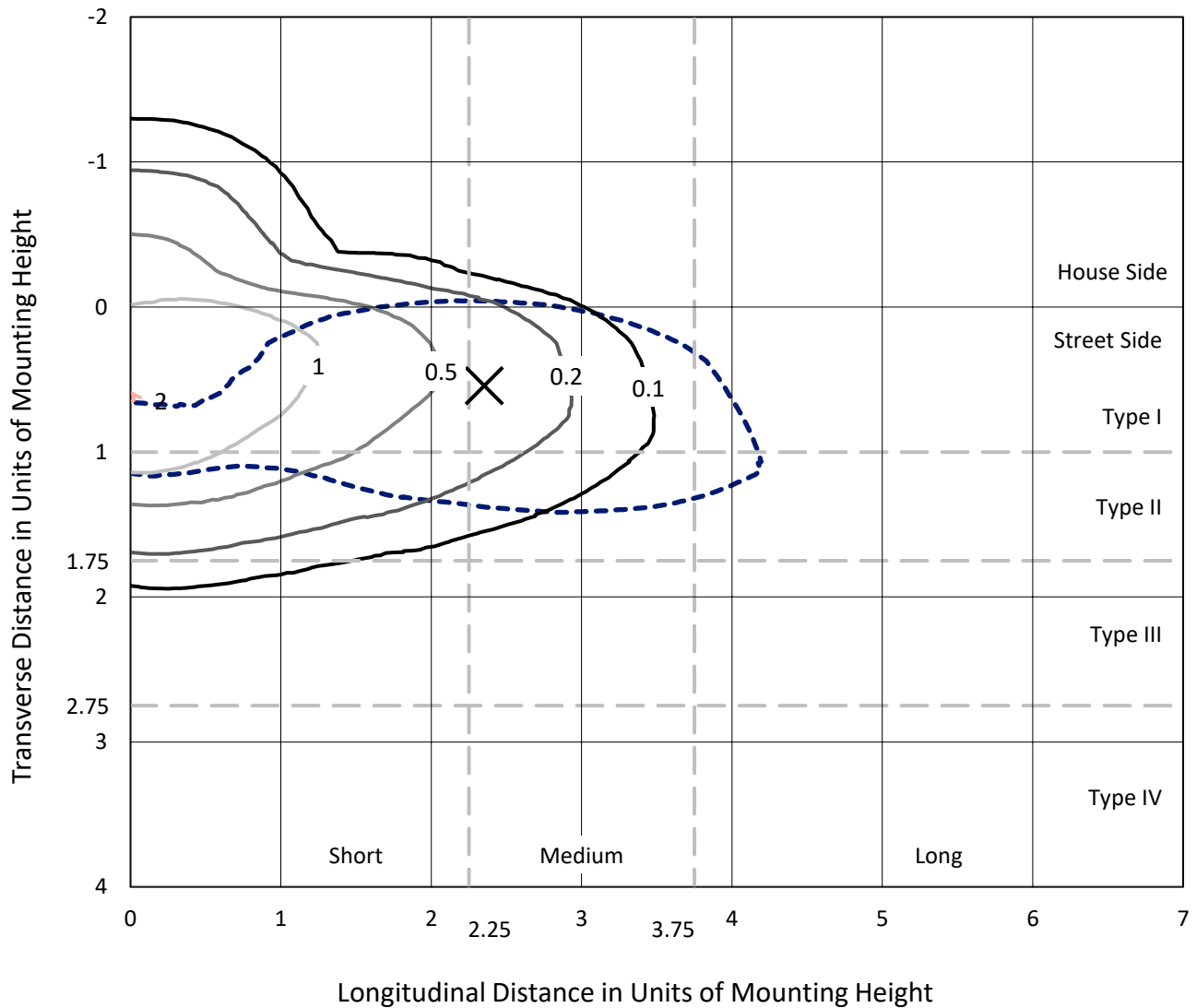
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

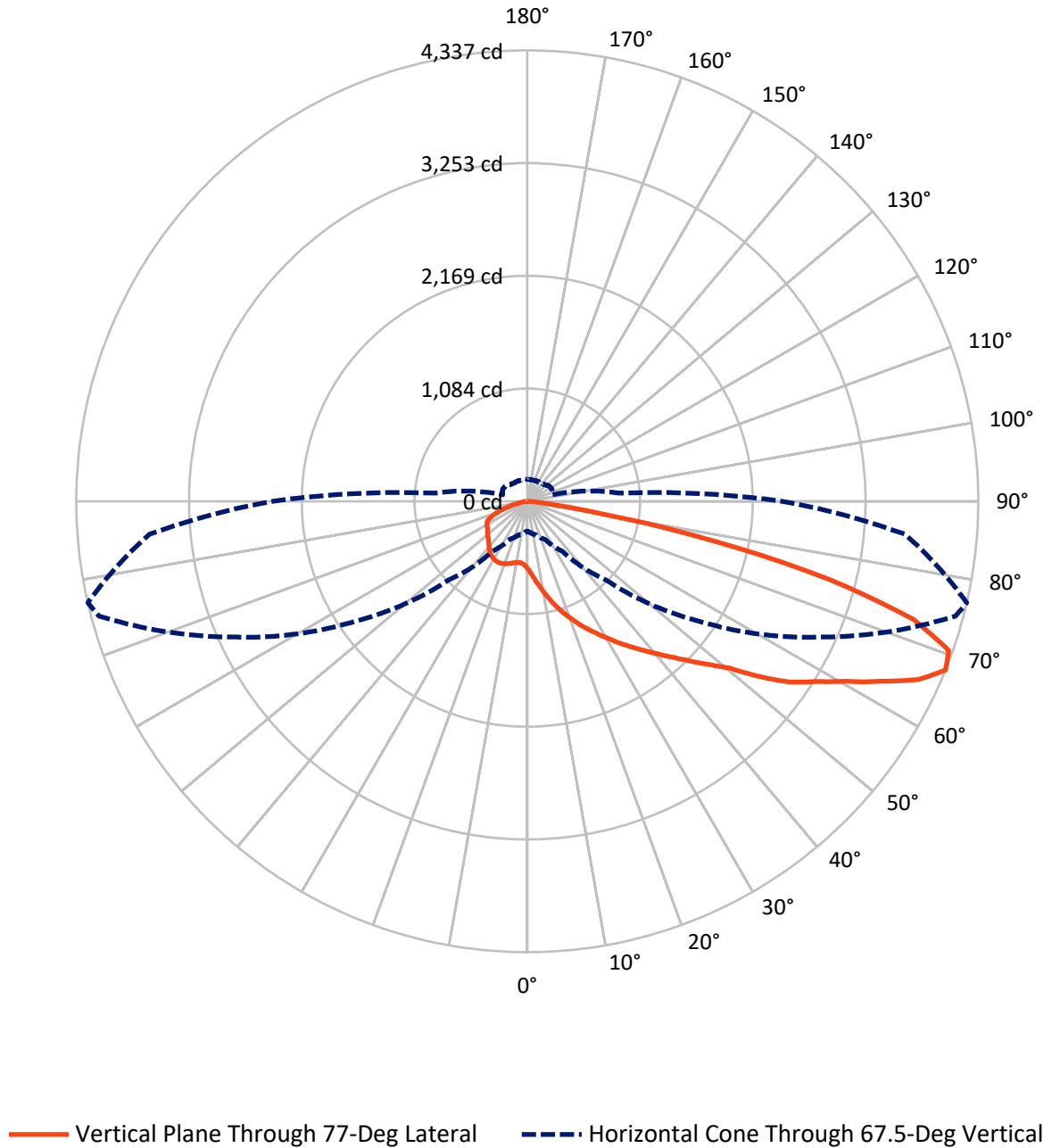
✕ Max cd
 - - - 1/2 Max cd



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	1045.9	0.0	1045.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4483.1	0.0	4483.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	5529.0	0.0	5529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.3
10°-20°	249.8	4.5
20°-30°	471.7	8.5
30°-40°	759.8	13.7
40°-50°	1039.3	18.8
50°-60°	1172.4	21.2
60°-70°	1094.3	19.8
70°-80°	599.8	10.8
80°-90°	72.4	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°	5529.0	100.0
0°-180°	5529.0	100.0

Coefficient of Utilization



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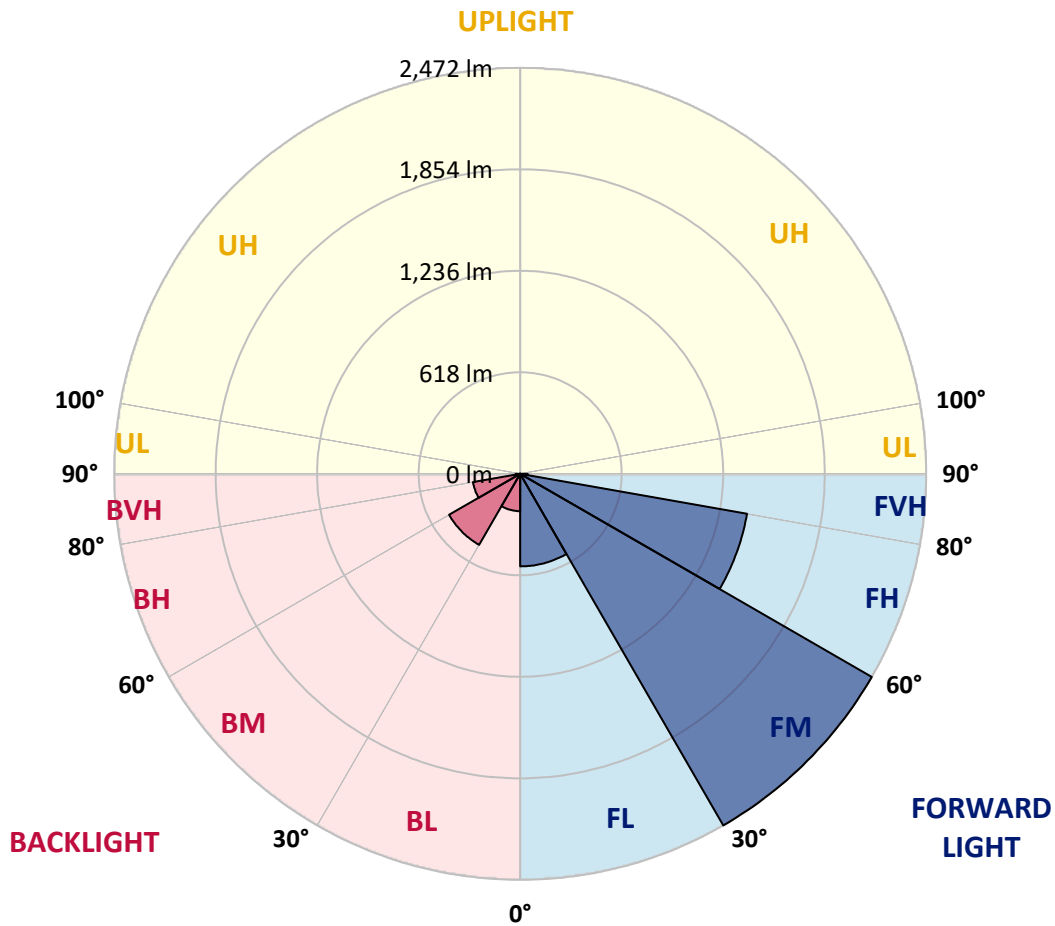
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.6	10.2			
FM (30°-60°)	2472.0	44.7			
FH (60°-80°)	1402.3	25.4			G1/1800
FVH (80°-90°)	45.2	0.8			G1/100
BL (0°-30°)	227.4	4.1	B1/500		
BM (30°-60°)	499.6	9.0	B1/1000		
BH (60°-80°)	291.8	5.3	B1/500		G1/500
BVH (80°-90°)	27.1	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°	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
2.5°	812.3	818.0	810.8	810.8	786.9	774.3	750.3	732.1	699.2	693.5
5°	960.1	967.2	957.2	953.0	924.7	898.7	858.5	818.8	760.3	754.3
7.5°	1074.5	1083.7	1074.8	1070.3	1045.1	1016.0	968.9	913.6	831.1	819.4
10°	1167.9	1169.3	1166.4	1168.2	1148.5	1124.5	1076.3	1011.8	908.7	892.7
12.5°	1220.7	1227.2	1232.9	1243.2	1239.8	1225.0	1181.6	1104.5	990.9	970.4
15°	1245.5	1256.9	1269.8	1293.5	1312.6	1316.3	1283.2	1204.1	1074.5	1049.7
17.5°	1254.4	1265.2	1285.5	1319.7	1360.8	1388.5	1373.6	1300.9	1157.3	1128.8
20°	1299.2	1302.3	1314.6	1347.1	1391.6	1437.6	1448.7	1393.9	1239.2	1207.0
22.5°	1395.1	1388.8	1392.2	1407.0	1439.0	1483.5	1508.9	1476.1	1323.4	1286.3
25°	1553.5	1535.2	1516.9	1499.8	1516.1	1541.2	1570.0	1558.3	1411.6	1364.5
27.5°	1753.5	1731.3	1691.0	1634.8	1615.1	1623.9	1636.8	1634.5	1493.2	1445.6
30°	1950.5	1924.5	1876.5	1795.2	1743.2	1719.8	1710.1	1703.6	1582.0	1531.2
32.5°	2107.7	2087.2	2040.1	1949.0	1873.7	1833.7	1801.5	1778.1	1674.8	1623.9
35°	2245.3	2226.2	2172.2	2072.9	1991.0	1948.5	1906.2	1856.3	1771.2	1719.8
37.5°	2370.9	2351.7	2277.8	2174.5	2092.0	2062.6	2024.9	1940.2	1868.0	1819.5
40°	2450.2	2445.9	2376.8	2259.8	2174.2	2159.7	2147.1	2037.5	1975.3	1930.2
42.5°	2470.5	2479.9	2425.1	2328.9	2247.3	2235.6	2265.0	2147.7	2095.7	2052.6
45°	2421.7	2448.8	2412.8	2347.4	2299.2	2292.9	2369.4	2268.1	2229.0	2189.6
47.5°	2298.1	2344.0	2329.2	2320.0	2313.2	2340.3	2461.3	2396.0	2380.0	2345.7
50°	2048.6	2135.7	2161.7	2219.3	2285.5	2377.1	2544.9	2535.5	2556.4	2521.8
52.5°	1617.4	1737.3	1887.9	2032.4	2200.5	2364.9	2636.8	2735.9	2823.8	2805.0
55°	1335.1	1389.1	1504.9	1769.8	2035.5	2313.2	2678.2	2897.7	3089.2	3072.4
57.5°	1118.2	1166.4	1237.8	1459.0	1786.1	2195.9	2703.9	2996.5	3271.0	3269.3
60°	885.6	936.7	1009.8	1166.4	1494.7	1993.3	2698.2	3108.9	3503.0	3517.3
62.5°	623.0	679.3	760.3	906.4	1197.0	1730.7	2581.8	3190.2	3776.2	3815.0
65°	409.6	446.7	507.7	633.9	891.9	1393.1	2359.4	3200.8	4068.4	4134.1
67.5°	287.1	301.4	337.3	405.8	587.9	1068.3	2005.2	3091.5	4263.4	4337.3
70°	224.0	231.2	249.4	276.8	369.3	718.4	1536.6	2807.2	4221.7	4298.8
72.5°	193.5	200.4	207.2	210.6	247.7	443.5	1040.9	2347.2	3829.3	3881.5
75°	175.5	177.2	182.9	181.8	188.9	287.7	600.8	1710.1	3021.3	3003.3
77.5°	147.6	149.8	159.3	157.8	167.8	196.6	311.9	1103.7	1958.7	1836.6
80°	125.0	126.1	136.4	134.7	145.8	142.4	159.3	562.5	830.8	703.8
82.5°	43.4	53.7	104.2	107.3	111.3	86.2	91.9	229.5	253.7	194.4
85°	21.1	22.5	53.1	75.3	75.1	43.4	44.8	81.9	79.9	62.8
87.5°	3.4	4.3	6.3	29.4	23.4	11.4	15.4	16.0	16.6	14.3
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°
648.7	0°	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
671.8	2.5°	655.9	641.6	611.6	583.9	562.2	541.4	529.7	519.7	514.0	512.9
703.2	5°	673.6	644.2	589.6	543.7	513.7	491.5	479.8	472.3	468.6	466.4
745.5	7.5°	699.0	655.9	578.2	526.0	494.6	478.6	472.6	471.5	471.2	471.5
796.6	10°	734.1	675.0	577.1	521.7	495.5	486.6	486.3	486.6	487.8	488.0
852.2	12.5°	772.0	694.7	581.7	525.4	506.3	501.5	500.6	500.3	501.2	501.7
908.4	15°	813.4	720.6	589.4	533.4	518.3	513.2	512.3	510.6	510.3	510.0
967.5	17.5°	855.9	746.3	597.9	542.0	526.0	518.9	515.7	511.7	508.6	507.7
1028.6	20°	899.0	771.7	603.9	546.3	526.6	516.6	510.3	503.5	498.0	494.9
1090.2	22.5°	945.0	798.3	607.6	545.1	521.4	507.7	496.3	488.3	480.0	474.6
1152.5	25°	989.8	821.4	607.3	539.1	511.4	494.0	479.5	469.2	457.8	452.1
1216.7	27.5°	1032.9	842.2	600.2	528.6	497.2	477.8	460.4	448.1	437.0	431.5
1281.5	30°	1077.4	859.6	589.1	513.2	480.3	458.9	439.8	429.2	419.3	414.1
1350.0	32.5°	1121.6	875.6	573.4	494.0	460.9	440.4	421.5	411.8	405.8	405.8
1423.6	35°	1168.4	886.8	552.5	471.8	440.4	420.7	405.8	400.1	399.6	396.1
1501.5	37.5°	1217.8	893.9	527.1	448.9	420.1	401.6	397.0	390.1	384.4	377.0
1587.1	40°	1269.8	901.0	496.6	425.3	398.7	388.4	386.4	377.3	361.0	342.8
1684.2	42.5°	1332.8	905.9	464.9	401.6	376.2	372.7	375.6	359.9	333.9	320.2
1801.2	45°	1405.9	913.9	435.8	378.2	353.0	353.0	365.0	344.5	323.1	314.5
1934.8	47.5°	1500.7	932.4	408.7	352.5	331.6	337.3	341.6	325.9	313.9	303.4
2097.4	50°	1637.6	976.9	380.7	326.5	315.4	326.8	320.8	311.7	297.7	289.1
2356.0	52.5°	1807.7	1003.2	355.9	303.1	301.4	312.8	304.2	295.7	285.1	273.7
2552.1	55°	1923.6	1008.0	335.1	286.0	292.0	290.8	287.7	280.0	274.3	259.1
2745.6	57.5°	2053.2	1017.8	317.9	275.7	286.0	273.4	272.3	265.7	258.3	248.0
2981.6	60°	2208.2	1032.9	303.1	271.7	280.8	262.0	256.3	253.7	246.3	241.2
3265.6	62.5°	2377.1	1046.6	288.0	272.3	274.8	250.9	242.3	241.5	236.9	235.2
3532.2	65°	2492.4	1009.2	269.1	271.7	265.4	239.5	228.6	228.3	224.6	224.0
3647.7	67.5°	2452.2	890.7	243.7	263.7	255.7	228.0	216.1	214.9	210.1	210.3
3527.0	70°	2250.7	721.8	208.6	244.0	243.7	217.8	202.9	199.2	192.6	193.8
3066.7	72.5°	1872.8	534.8	161.5	211.2	224.6	208.3	187.8	181.8	173.5	174.7
2263.8	75°	1352.5	363.6	117.6	160.7	195.5	197.2	173.0	162.7	152.7	154.4
1260.1	77.5°	692.1	206.1	86.5	110.7	153.5	179.2	159.5	145.8	143.6	159.5
363.3	80°	225.8	103.3	59.9	77.6	100.7	146.7	139.8	124.2	123.6	127.3
76.2	82.5°	67.4	43.7	38.5	51.1	55.7	112.4	120.7	93.9	80.8	85.1
25.4	85°	23.1	21.1	22.0	25.4	26.5	65.9	84.5	62.2	58.8	64.8
5.7	87.5°	5.4	7.4	6.3	5.7	5.7	16.0	32.8	26.0	36.0	24.0
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>
648.7
512.9
466.1
472.3
488.3
502.0
509.7
508.6
496.0
474.9
452.1
431.2
413.8
406.1
395.3
375.9
340.2
320.5
315.9
303.1
288.3
271.4
259.4
244.6
242.6
235.2
223.8
210.3
194.9
174.4
155.0
157.3
109.3
87.9
63.9
23.1
0.0

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