

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: P946579

Luminaire Tested: **GALN-SB2A-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

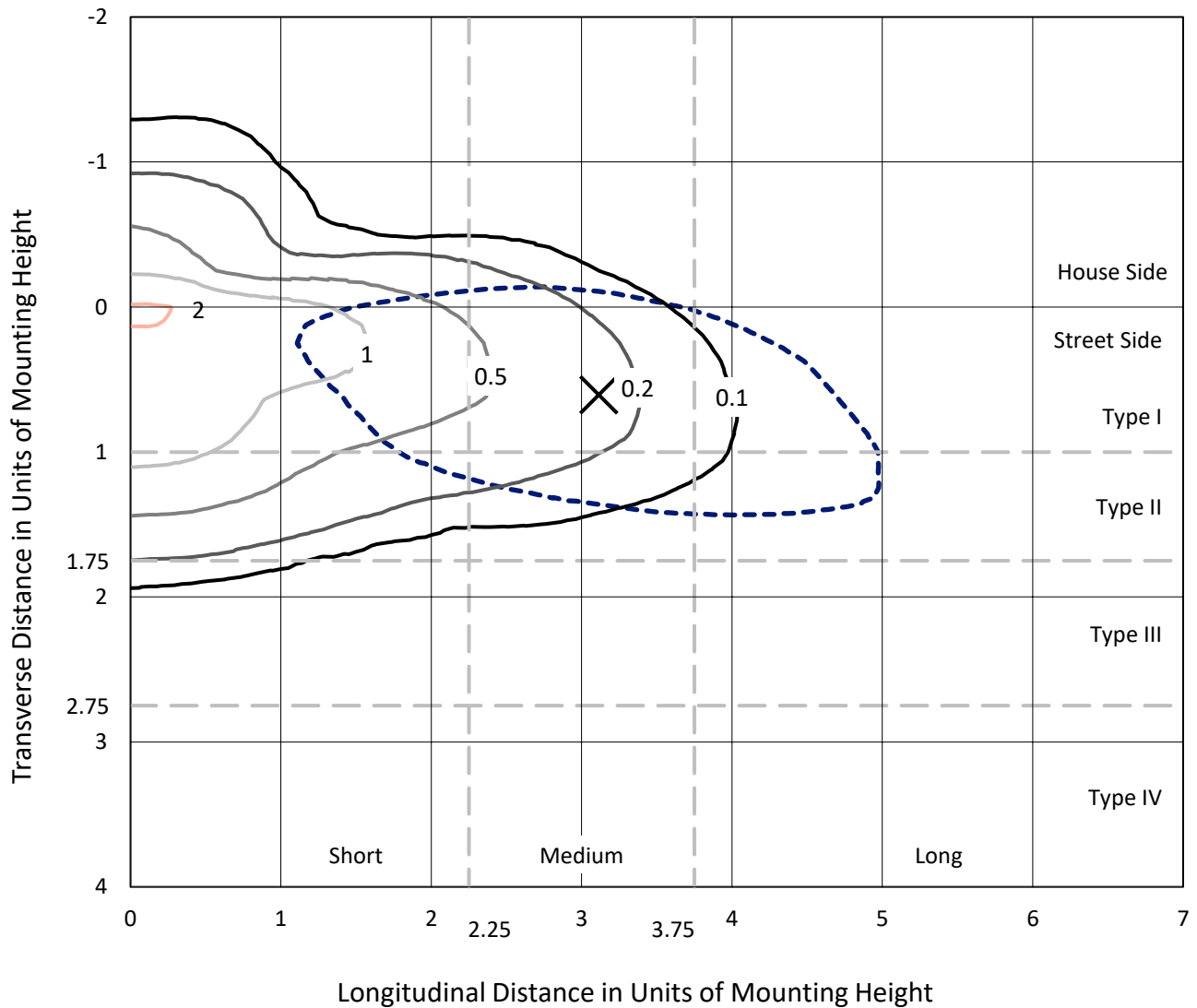
Lumens per Lamp: N/A  
Luminaire Lumens: 6461 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

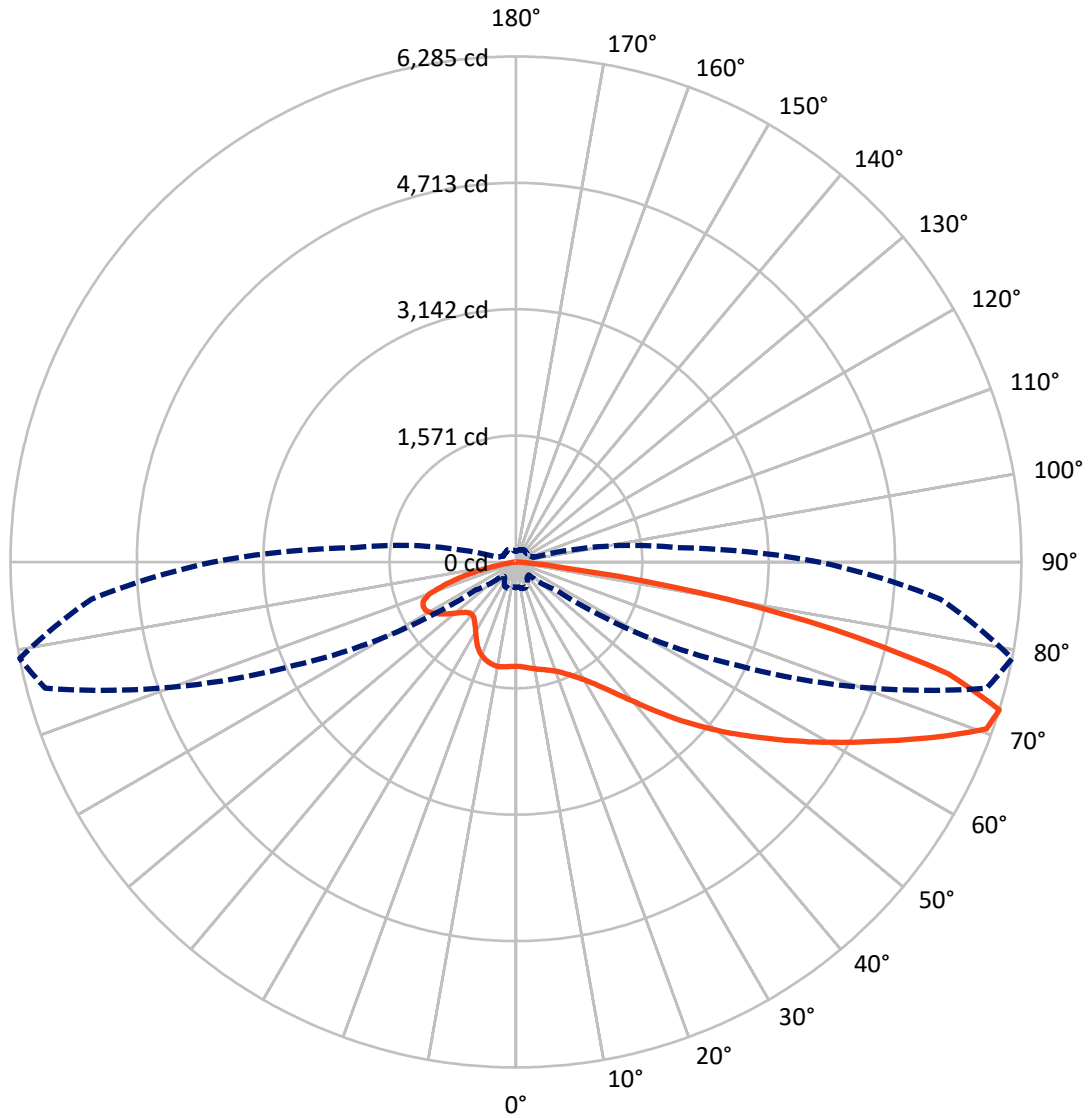
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1421.8	0.0	1421.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	5039.2	0.0	5039.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	6461.0	0.0	6461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	1.8
10°-20°	307.8	4.8
20°-30°	496.7	7.7
30°-40°	745.4	11.5
40°-50°	1057.4	16.4
50°-60°	1335.4	20.7
60°-70°	1356.3	21.0
70°-80°	924.4	14.3
80°-90°	119.9	1.9
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°	6461.0	100.0
0°-180°	6461.0	100.0

**Coefficient of Utilization**



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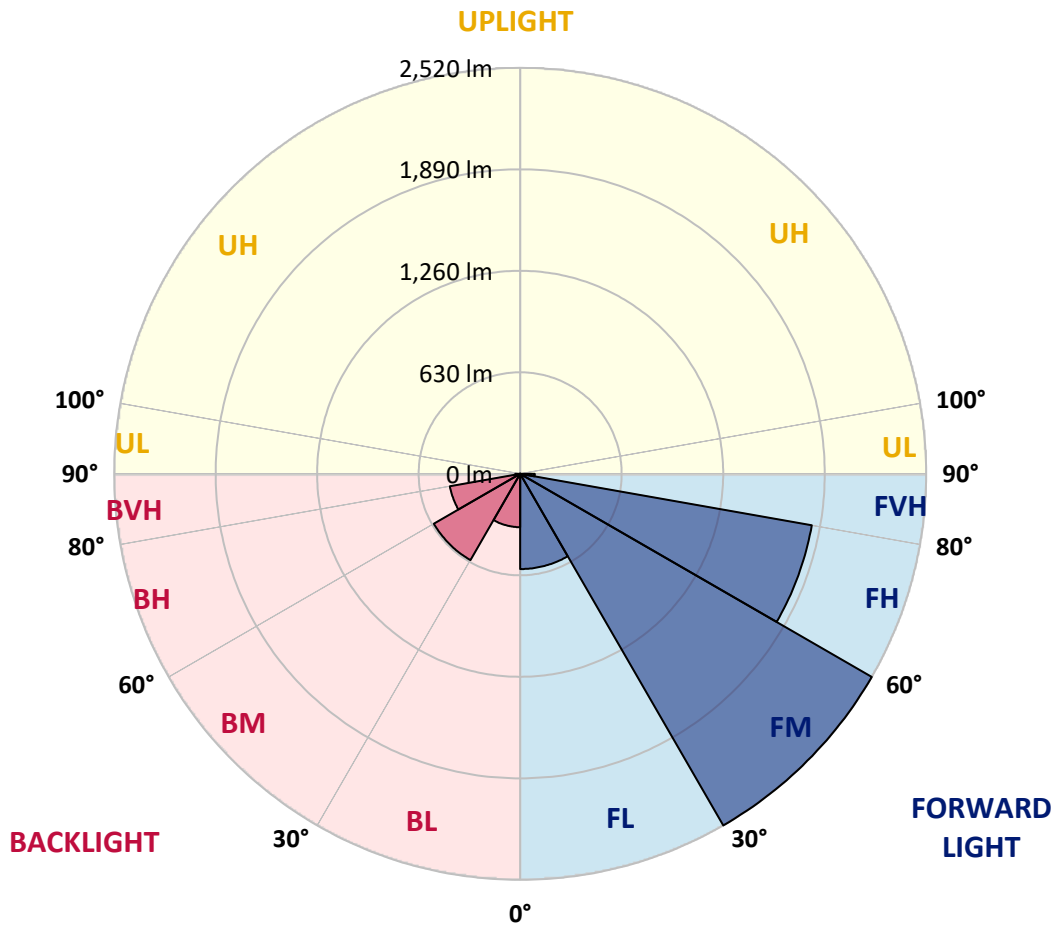
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.0	9.1			
FM (30°-60°)	2519.9	39.0			
FH (60°-80°)	1837.9	28.4			G2/5000
FVH (80°-90°)	90.3	1.4			G1/100
BL (0°-30°)	331.2	5.1	B1/500		
BM (30°-60°)	618.3	9.6	B1/1000		
BH (60°-80°)	442.7	6.9	B1/500		G1/500
BVH (80°-90°)	29.6	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1297.7	1291.5	1295.3	1293.9	1295.6	1297.7	1298.4	1299.4	1302.8	1302.5
5°	1294.9	1288.8	1293.9	1292.2	1296.6	1301.4	1305.5	1309.3	1314.8	1317.1
7.5°	1289.1	1285.0	1290.1	1295.3	1303.5	1310.7	1316.5	1325.0	1332.9	1334.2
10°	1255.3	1252.2	1264.2	1277.5	1300.1	1319.5	1332.2	1342.1	1350.6	1352.0
12.5°	1220.1	1216.3	1229.7	1247.8	1284.3	1319.5	1346.2	1359.2	1366.7	1371.1
15°	1214.3	1211.2	1218.7	1234.4	1264.9	1310.3	1355.8	1379.7	1386.2	1391.3
17.5°	1242.3	1236.5	1239.6	1245.0	1262.8	1301.8	1363.3	1402.9	1412.8	1418.3
20°	1307.2	1299.0	1294.3	1283.3	1280.2	1303.1	1362.6	1431.0	1443.9	1450.8
22.5°	1393.7	1388.2	1378.0	1350.3	1320.2	1319.9	1375.6	1466.8	1491.1	1497.6
25°	1498.3	1490.1	1477.1	1439.5	1381.7	1353.0	1397.5	1512.6	1553.3	1555.0
27.5°	1618.6	1606.3	1588.5	1539.0	1461.0	1405.0	1431.0	1565.3	1624.7	1624.0
30°	1745.4	1733.1	1714.3	1654.1	1556.0	1475.0	1477.4	1622.0	1709.5	1705.7
32.5°	1838.0	1828.8	1825.0	1778.5	1665.4	1557.7	1530.7	1684.9	1814.1	1810.7
35°	1909.1	1897.1	1901.6	1878.0	1784.7	1650.4	1596.0	1759.7	1941.2	1940.9
37.5°	1979.5	1968.9	1972.6	1956.9	1895.1	1767.9	1675.7	1851.3	2098.8	2106.3
40°	2043.7	2032.5	2047.5	2032.8	1980.8	1893.0	1766.2	1954.9	2281.3	2295.6
42.5°	2082.4	2073.5	2098.4	2098.8	2055.4	1998.6	1865.7	2069.0	2492.5	2524.6
45°	2095.7	2092.6	2130.2	2138.1	2121.3	2059.8	1955.2	2193.4	2720.1	2777.5
47.5°	2081.3	2075.5	2127.5	2156.5	2169.8	2088.5	2029.4	2328.1	2952.5	3036.5
50°	2008.9	1997.6	2074.8	2136.0	2183.5	2107.3	2104.2	2483.6	3216.7	3308.6
52.5°	1878.7	1870.1	1958.0	2064.2	2153.4	2116.5	2188.3	2653.4	3467.5	3586.4
55°	1712.2	1700.9	1797.7	1936.4	2078.6	2113.5	2272.4	2843.5	3763.5	3884.1
57.5°	1448.4	1425.8	1548.2	1712.2	1956.6	2109.7	2359.9	3032.4	4064.2	4208.8
60°	1063.6	1030.1	1180.1	1374.6	1718.0	2073.1	2468.2	3244.3	4425.1	4555.3
62.5°	619.3	599.8	697.9	879.4	1294.9	1857.8	2529.0	3490.8	4779.9	4916.6
65°	480.9	475.4	483.9	497.9	720.8	1391.0	2341.4	3731.0	5231.0	5326.7
67.5°	439.8	435.7	439.5	413.2	365.7	774.8	1852.3	3791.8	5714.2	5772.3
70°	391.0	386.2	398.5	375.9	287.8	352.4	1196.8	3571.1	6098.7	6207.8
72.5°	318.5	313.1	341.8	331.5	242.3	226.2	601.2	3046.5	6058.4	6284.6
75°	244.7	241.6	275.8	284.3	197.5	178.1	288.4	2264.5	5331.5	5559.4
77.5°	190.0	187.6	205.1	236.2	159.3	138.1	177.4	1436.4	4017.7	4057.7
80°	142.5	135.7	151.7	182.8	124.1	100.8	120.3	837.7	2539.6	2302.1
82.5°	89.2	85.8	99.1	122.0	87.5	69.4	78.3	462.7	1017.8	599.4
85°	50.9	49.6	54.0	69.7	47.5	40.0	44.8	204.4	185.9	127.8
87.5°	20.5	19.8	24.6	31.1	17.4	14.7	15.7	49.2	41.0	37.9
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°
1297.0	0°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
1302.1	2.5°	1300.7	1300.7	1296.0	1288.4	1279.9	1274.4	1265.5	1263.1	1253.9	1251.2
1313.7	5°	1316.5	1313.7	1299.0	1277.8	1248.8	1222.1	1192.7	1174.3	1148.3	1139.1
1336.6	7.5°	1336.3	1328.8	1303.5	1257.0	1196.2	1136.4	1074.2	1027.0	981.9	965.8
1355.4	10°	1354.4	1343.8	1300.7	1219.4	1114.1	1010.6	911.5	842.1	789.5	767.9
1376.3	12.5°	1372.5	1353.0	1282.6	1156.9	997.6	857.1	751.5	697.5	665.1	639.1
1393.4	15°	1389.6	1362.3	1254.6	1073.1	869.8	727.3	649.3	606.3	580.3	563.2
1418.3	17.5°	1409.4	1370.1	1212.6	966.8	748.1	637.4	573.8	547.8	542.7	540.7
1452.5	20°	1437.1	1377.3	1157.2	847.9	658.6	565.6	532.8	530.4	530.1	529.0
1493.5	22.5°	1466.8	1385.8	1084.1	739.9	582.4	520.8	515.0	510.2	507.2	506.8
1543.1	25°	1502.0	1388.6	992.5	651.4	517.4	499.7	492.8	485.6	483.6	483.6
1599.4	27.5°	1536.2	1379.3	885.8	574.5	480.9	480.2	471.3	468.9	468.6	469.6
1663.7	30°	1570.4	1361.9	779.9	503.4	459.7	459.7	456.6	458.3	459.7	463.1
1751.9	32.5°	1616.5	1343.5	691.4	450.8	441.2	437.8	440.9	444.3	445.7	450.1
1867.7	35°	1684.2	1330.5	621.0	422.1	422.1	417.6	419.3	418.7	415.6	413.5
2007.8	37.5°	1773.7	1329.8	562.9	408.7	406.0	405.3	405.7	401.2	389.3	374.9
2177.4	40°	1881.4	1348.2	518.1	399.5	397.5	401.6	399.5	387.6	354.7	329.8
2385.8	42.5°	2026.0	1400.9	489.4	388.2	394.4	399.5	391.3	350.0	327.7	311.0
2623.4	45°	2196.2	1486.3	474.7	376.3	388.6	394.7	355.1	337.0	319.2	299.0
2882.4	47.5°	2388.9	1594.0	471.3	365.0	375.6	379.4	339.7	331.5	311.3	289.5
3142.8	50°	2598.8	1721.5	480.5	351.7	356.8	343.8	334.6	327.1	306.2	284.7
3409.8	52.5°	2815.8	1861.9	499.0	333.6	338.0	323.6	332.5	326.0	303.1	274.1
3685.6	55°	3029.0	2003.4	516.7	312.4	318.9	305.5	326.7	321.9	289.1	256.3
3979.8	57.5°	3245.7	2144.2	534.2	293.6	300.4	288.1	317.5	311.0	273.4	239.9
4301.1	60°	3470.9	2280.9	542.4	275.5	280.2	272.0	303.5	292.2	255.6	223.2
4616.9	62.5°	3681.8	2394.7	529.0	257.3	260.4	257.0	285.0	270.0	237.9	204.4
4946.0	65°	3893.3	2462.4	488.0	239.6	240.3	238.5	259.1	246.1	217.0	188.0
5234.1	67.5°	4085.1	2500.3	422.8	220.4	218.7	218.0	234.8	220.1	196.9	171.6
5453.1	70°	4125.7	2403.9	323.0	197.9	197.9	196.2	208.1	193.1	174.6	154.1
5296.3	72.5°	3768.3	2022.2	229.3	172.2	175.0	171.6	181.5	168.8	152.1	138.4
4564.6	75°	3038.6	1482.9	166.8	145.9	150.7	144.9	154.1	145.2	130.9	130.6
3145.6	77.5°	2087.8	916.9	121.0	120.3	123.7	116.2	126.8	122.0	109.0	103.2
1369.1	80°	891.0	365.7	88.2	93.0	93.0	86.1	98.4	99.8	88.5	85.8
264.2	82.5°	177.4	103.9	61.9	63.9	60.1	58.1	69.7	77.2	106.6	118.6
79.6	85°	53.3	38.3	37.3	34.9	30.8	31.1	41.0	77.6	95.7	54.7
26.3	87.5°	14.7	9.6	9.9	7.9	6.5	8.5	14.0	58.8	32.1	13.7
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

180°
1297.0
1255.6
1145.9
967.9
772.7
647.6
566.3
542.0
532.5
510.6
485.6
472.3
465.5
453.9
418.3
375.3
329.1
310.3
297.7
287.8
282.3
272.0
254.6
239.2
222.1
204.0
185.9
169.5
153.5
134.3
117.6
96.7
85.8
118.9
47.2
11.6
0.0

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