

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: P940904

Luminaire Tested: **GALN-SB4A-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

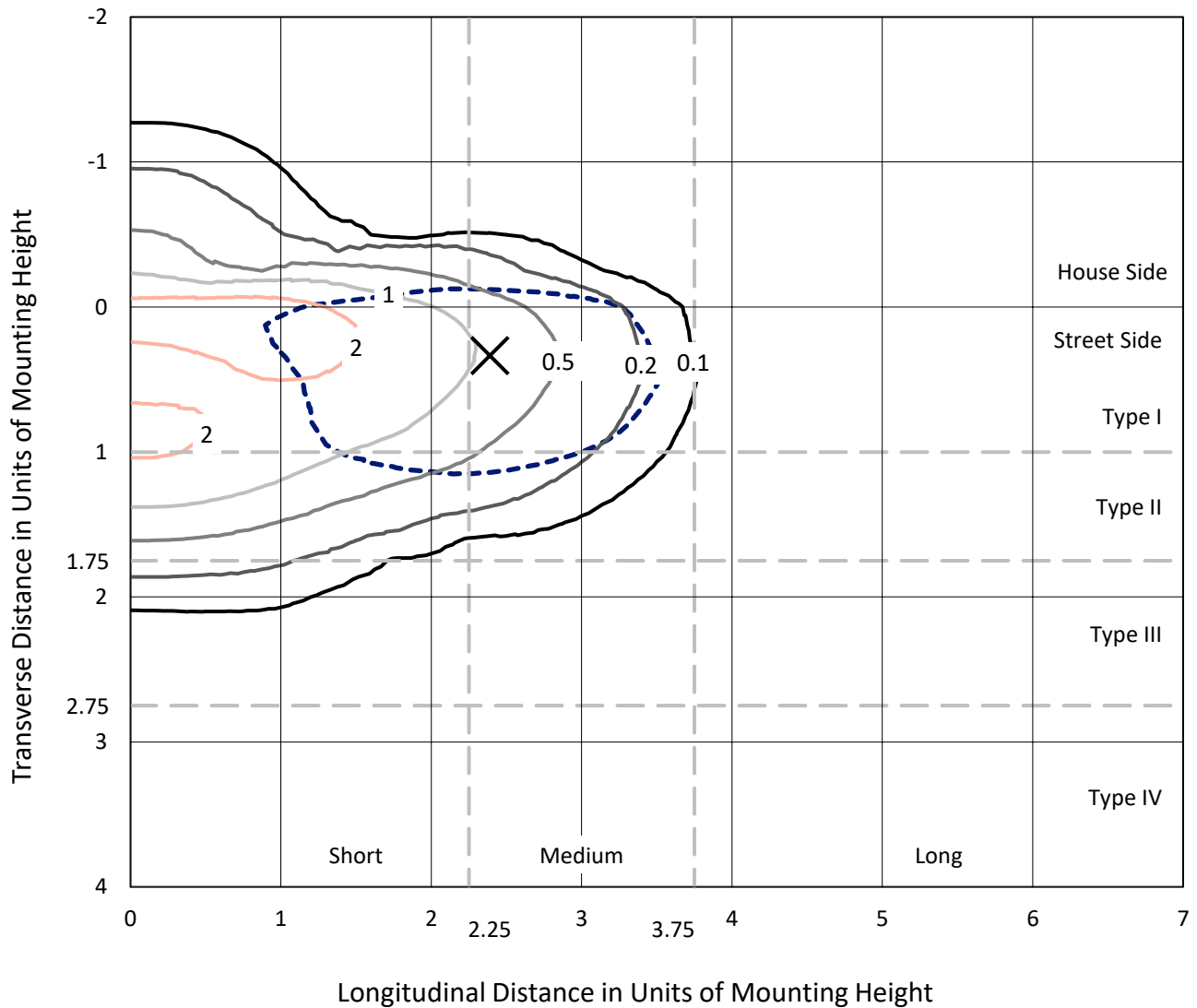
Lumens per Lamp: N/A  
Luminaire Lumens: 9513 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

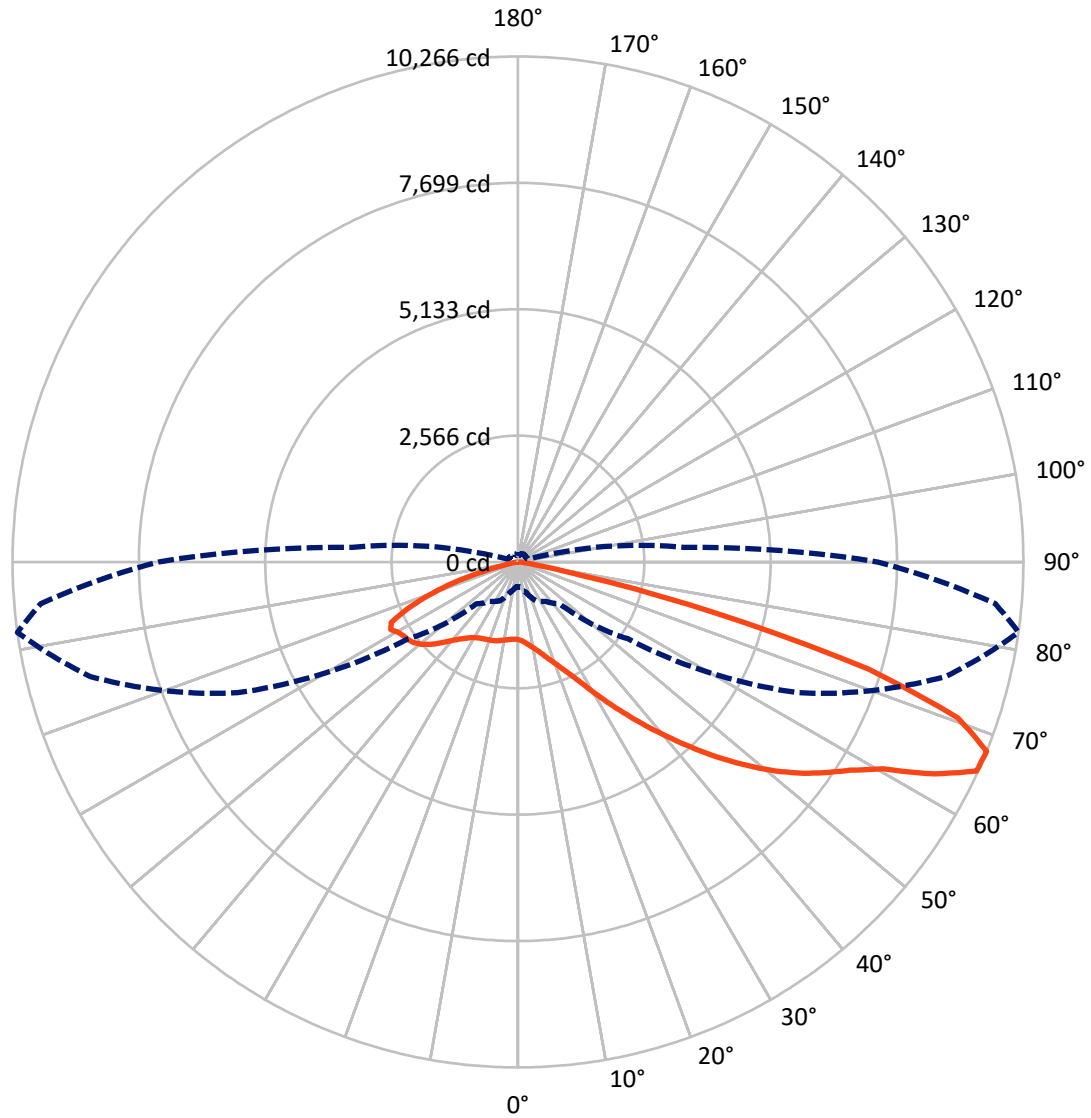
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1723.2	0.0	1723.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7789.8	0.0	7789.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9513.0	0.0	9513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	1.5
10°-20°	364.9	3.8
20°-30°	584.4	6.1
30°-40°	1033.4	10.9
40°-50°	1810.6	19.0
50°-60°	2414.8	25.4
60°-70°	2248.1	23.6
70°-80°	862.8	9.1
80°-90°	53.6	0.6
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°	9513.0	100.0
0°-180°	9513.0	100.0

**Coefficient of Utilization**



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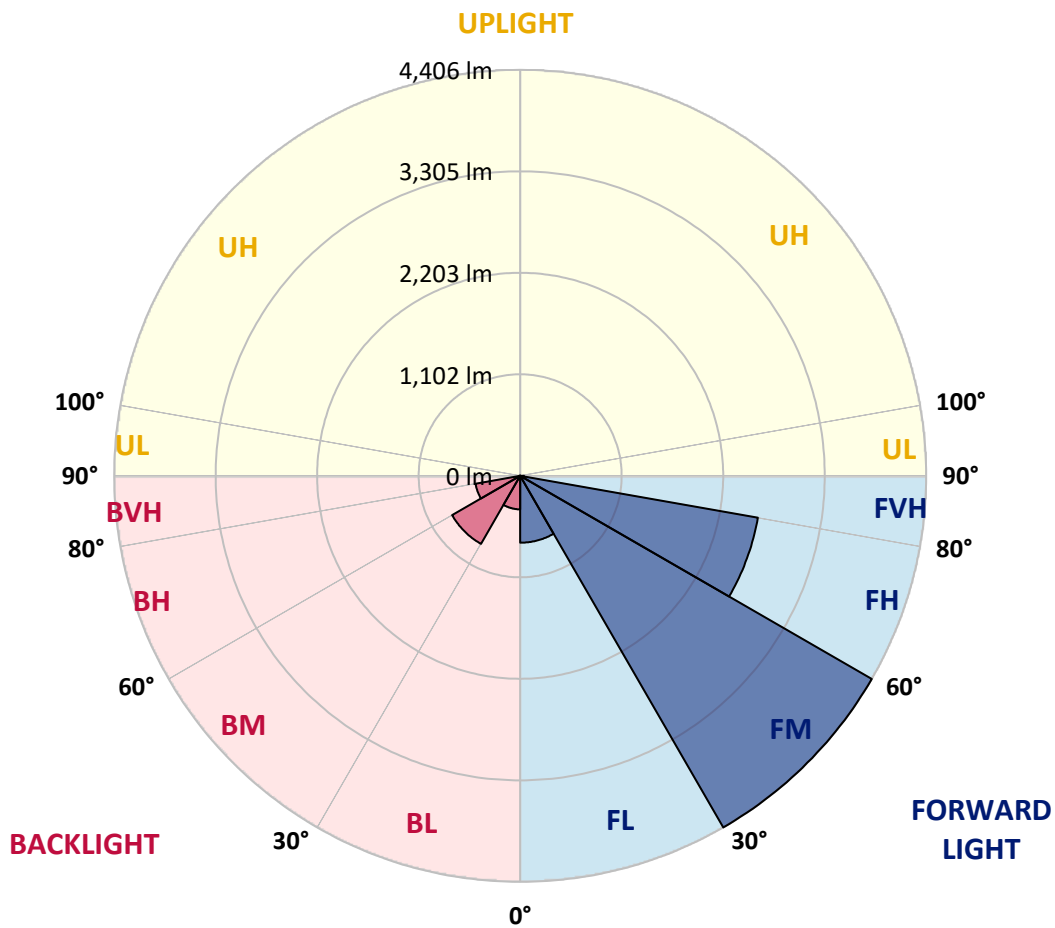
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.7	7.6			
FM (30°-60°)	4406.0	46.3			
FH (60°-80°)	2619.1	27.5			G2/5000
FVH (80°-90°)	39.0	0.4			G1/100
BL (0°-30°)	363.9	3.8	B1/500		
BM (30°-60°)	852.8	9.0	B1/1000		
BH (60°-80°)	491.8	5.2	B1/500		G1/500
BVH (80°-90°)	14.6	0.2			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°	82°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1665.7	1675.3	1669.8	1667.1	1662.3	1655.4	1650.0	1632.8	1615.0	1603.4
5°	1699.3	1708.9	1708.2	1710.9	1714.3	1716.4	1715.0	1695.8	1670.5	1650.6
7.5°	1670.5	1681.5	1690.4	1704.1	1728.0	1753.4	1765.7	1761.6	1735.6	1708.2
10°	1589.0	1600.6	1621.9	1654.1	1704.7	1759.5	1805.4	1826.7	1810.2	1780.1
12.5°	1439.7	1451.3	1493.1	1563.0	1647.9	1743.1	1830.8	1887.6	1891.7	1861.6
15°	1271.9	1283.5	1328.0	1415.7	1545.2	1697.9	1844.5	1952.0	1988.3	1962.3
17.5°	1167.8	1178.0	1211.6	1282.2	1417.1	1607.5	1839.7	2020.5	2103.4	2082.8
20°	1136.3	1145.2	1160.9	1210.2	1322.6	1513.7	1808.2	2084.9	2227.3	2215.7
22.5°	1169.8	1178.0	1182.8	1204.8	1275.3	1452.0	1768.4	2150.6	2371.2	2372.5
25°	1247.2	1255.4	1250.0	1263.7	1294.5	1432.8	1753.4	2228.0	2552.0	2567.0
27.5°	1374.6	1375.3	1362.3	1361.6	1366.4	1461.6	1769.1	2310.9	2780.1	2808.1
30°	1630.1	1619.8	1569.8	1515.7	1491.1	1547.9	1813.0	2408.8	3049.2	3099.2
32.5°	2023.9	2008.8	1917.1	1787.6	1657.5	1686.9	1891.7	2520.5	3342.4	3432.8
35°	2451.3	2447.2	2351.3	2158.8	1931.5	1884.9	2019.8	2667.0	3662.2	3806.1
37.5°	2848.5	2846.5	2791.7	2565.0	2288.3	2160.9	2225.3	2858.8	4004.7	4212.9
40°	3211.6	3217.7	3162.9	2960.2	2681.4	2515.0	2504.7	3095.8	4385.5	4656.0
42.5°	3525.2	3532.1	3476.6	3326.6	3069.8	2906.8	2847.9	3386.2	4757.4	5132.0
45°	3738.2	3780.7	3772.5	3652.6	3468.4	3299.2	3260.2	3750.6	5181.4	5636.8
47.5°	3798.5	3837.6	3899.2	3915.6	3803.3	3636.9	3683.5	4189.6	5610.1	6142.3
50°	3649.9	3686.2	3814.3	3984.8	4062.9	4011.5	4095.1	4660.1	6049.1	6646.4
52.5°	3356.8	3393.7	3555.4	3825.2	4143.7	4305.4	4508.1	5123.8	6474.5	7123.8
55°	2932.8	2971.8	3179.4	3484.8	3989.6	4426.6	4852.6	5586.8	6864.2	7553.2
57.5°	2356.1	2384.9	2600.6	3028.0	3602.0	4306.0	5106.7	6092.3	7231.3	7975.1
60°	1535.6	1560.9	1811.6	2288.3	2959.5	3903.3	5157.4	6656.0	7719.0	8523.7
62.5°	1021.2	1038.3	1187.0	1536.9	2084.2	3130.0	4860.8	7106.0	8434.0	9478.5
65°	700.7	717.8	866.4	1110.2	1346.5	2070.5	4008.1	7046.4	9081.9	10236.7
67.5°	500.0	514.4	640.4	870.5	974.6	1202.7	2717.0	6284.8	8988.8	10265.5
70°	358.2	366.4	470.5	678.1	774.6	722.6	1510.9	4806.7	7870.3	9479.2
72.5°	250.7	253.4	326.7	516.4	624.0	527.4	719.2	3204.7	5952.6	7440.2
75°	169.9	173.3	219.9	378.8	500.7	402.7	380.8	1718.4	3494.4	4118.4
77.5°	104.1	105.5	141.8	258.9	374.6	306.8	245.2	728.1	1352.0	1327.4
80°	58.9	58.9	90.4	161.0	255.5	197.9	171.9	309.6	428.1	376.0
82.5°	32.9	33.6	65.8	100.0	169.2	117.1	94.5	143.1	184.9	163.7
85°	13.7	15.1	40.4	47.3	80.8	58.2	38.4	60.3	68.5	61.0
87.5°	1.4	2.1	12.3	8.9	9.6	11.6	5.5	11.6	9.6	9.6
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°
1576.0	0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
1599.3	2.5°	1586.3	1576.0	1550.0	1519.8	1480.1	1460.9	1434.9	1417.1	1402.0	1403.4
1639.0	5°	1617.1	1591.1	1532.8	1460.2	1369.8	1305.4	1237.0	1189.7	1151.3	1143.1
1693.8	7.5°	1659.5	1618.4	1516.4	1385.6	1232.8	1117.1	1013.7	947.2	900.0	884.9
1760.2	10°	1714.3	1654.7	1495.2	1291.7	1071.9	924.6	813.7	761.6	729.4	718.5
1838.3	12.5°	1778.0	1696.5	1467.1	1177.4	906.1	764.4	693.8	667.8	657.5	654.1
1934.2	15°	1858.2	1748.6	1424.6	1041.8	765.7	666.4	636.3	632.9	634.2	632.9
2049.3	17.5°	1953.4	1805.4	1355.4	902.0	671.2	616.4	605.5	608.2	611.6	610.9
2178.0	20°	2057.5	1861.6	1267.1	778.1	606.8	580.8	574.6	577.4	580.1	578.8
2326.6	22.5°	2176.0	1921.9	1169.1	681.5	563.7	547.9	541.1	541.8	541.8	539.0
2515.0	25°	2317.7	1988.3	1066.4	613.0	530.8	518.5	510.3	507.5	503.4	495.2
2743.8	27.5°	2486.9	2058.8	967.8	565.1	504.8	493.1	483.5	476.7	466.4	452.7
3018.4	30°	2677.3	2144.5	884.2	534.9	484.2	472.6	461.6	451.4	436.3	419.2
3334.2	32.5°	2901.3	2236.2	823.3	515.1	465.7	453.4	440.4	428.1	411.6	394.5
3688.9	35°	3168.4	2347.2	787.6	501.4	451.4	434.9	420.5	406.8	394.5	379.4
4074.5	37.5°	3458.1	2465.0	776.7	494.5	441.8	416.4	400.0	390.4	389.0	380.1
4491.7	40°	3775.2	2604.7	784.9	490.4	431.5	398.6	380.8	378.8	382.2	366.4
4937.5	42.5°	4110.8	2770.5	798.6	485.6	417.1	380.8	363.7	363.7	360.9	339.0
5408.7	45°	4473.8	2961.6	812.3	474.0	400.0	363.0	350.0	345.2	333.6	312.3
5882.7	47.5°	4839.6	3156.1	822.6	452.7	379.4	347.9	336.3	325.3	308.2	289.0
6347.8	50°	5186.8	3330.7	811.6	421.2	356.2	333.6	321.2	306.2	287.7	274.6
6788.2	52.5°	5497.1	3482.1	765.0	384.2	331.5	318.5	307.5	291.8	276.7	263.0
7185.4	55°	5767.0	3604.7	682.9	349.3	309.6	305.5	294.5	274.6	254.1	242.5
7579.2	57.5°	6025.9	3697.8	580.1	320.5	289.7	291.1	274.6	256.8	237.7	225.3
8110.0	60°	6370.4	3822.5	476.0	293.8	268.5	272.6	254.8	241.8	217.8	202.0
9020.3	62.5°	6921.0	4016.3	378.1	261.0	243.8	245.2	237.7	221.9	193.1	174.7
9694.9	65°	7358.0	3945.1	297.9	225.3	215.7	217.8	217.8	200.7	169.9	148.6
9731.2	67.5°	7308.7	3378.0	237.7	190.4	189.0	190.4	195.2	180.8	150.7	133.6
8990.2	70°	6732.7	2686.9	190.4	158.2	164.4	161.0	174.7	165.1	135.6	118.5
6969.7	72.5°	5493.7	1935.6	145.2	130.8	126.0	131.5	157.5	148.6	113.0	93.8
3691.7	75°	3210.2	1032.8	108.2	103.4	91.1	109.6	139.7	126.7	86.3	69.2
1131.5	77.5°	1045.2	360.3	79.4	76.0	67.8	88.4	119.2	106.8	70.5	54.8
331.5	80°	280.1	108.9	54.1	50.0	43.8	65.8	94.5	84.9	50.7	35.6
142.5	82.5°	112.3	45.9	31.5	28.1	24.0	45.2	74.7	68.5	37.7	22.6
44.5	85°	36.3	15.1	11.6	8.9	11.0	28.1	44.5	46.6	26.7	11.6
6.8	87.5°	4.8	2.1	2.1	2.7	2.1	4.8	13.7	13.0	7.5	1.4
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

180°
1576.0
1389.7
1124.6
869.8
710.3
652.0
632.2
609.6
578.1
537.7
493.8
451.4
417.8
395.2
378.1
379.4
367.1
339.0
311.6
288.3
272.6
261.6
241.1
224.0
200.0
173.3
146.6
130.8
116.4
91.8
67.1
52.7
34.9
22.6
8.9
0.0
0.0

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