

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: P946002

Luminaire Tested: **GALN-SB1D-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

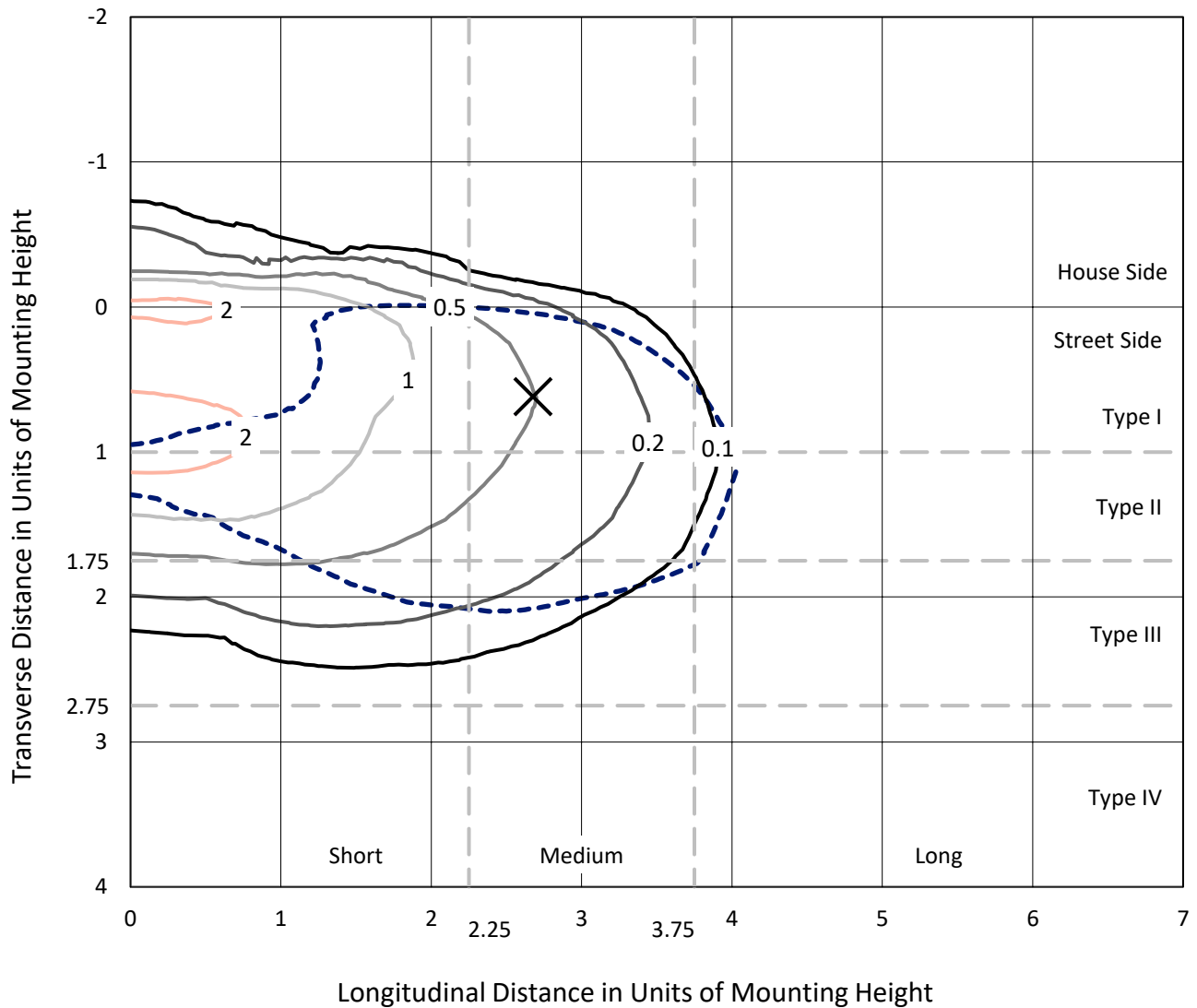
Lumens per Lamp: N/A  
Luminaire Lumens: 8966 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

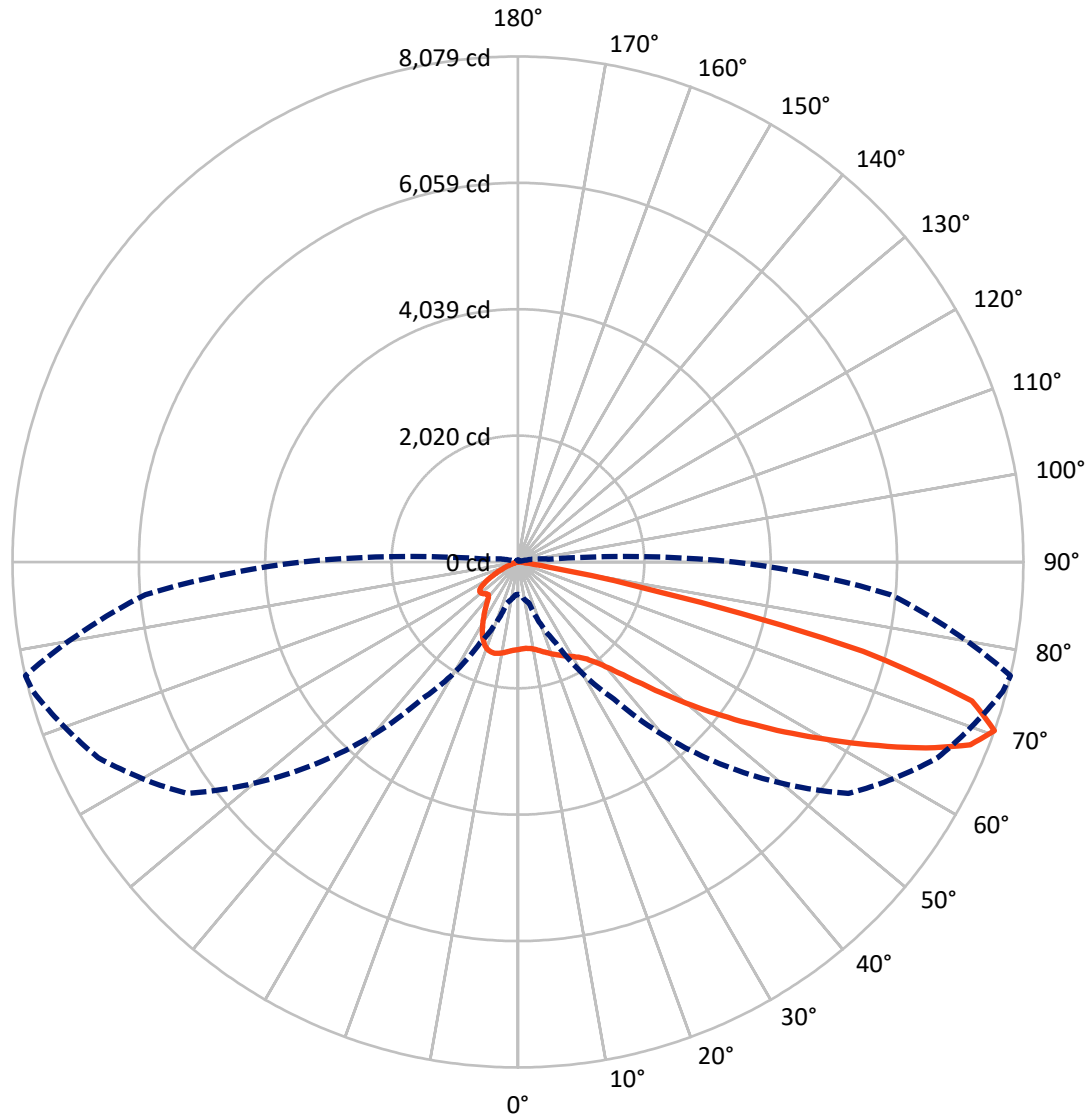
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	945.1	0.0	945.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8020.9	0.0	8020.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8966.0	0.0	8966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	1.3
10°-20°	286.1	3.2
20°-30°	442.6	4.9
30°-40°	803.0	9.0
40°-50°	1515.9	16.9
50°-60°	2190.3	24.4
60°-70°	2331.5	26.0
70°-80°	1235.5	13.8
80°-90°	40.6	0.5
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°	8966.0	100.0
0°-180°	8966.0	100.0

**Coefficient of Utilization**



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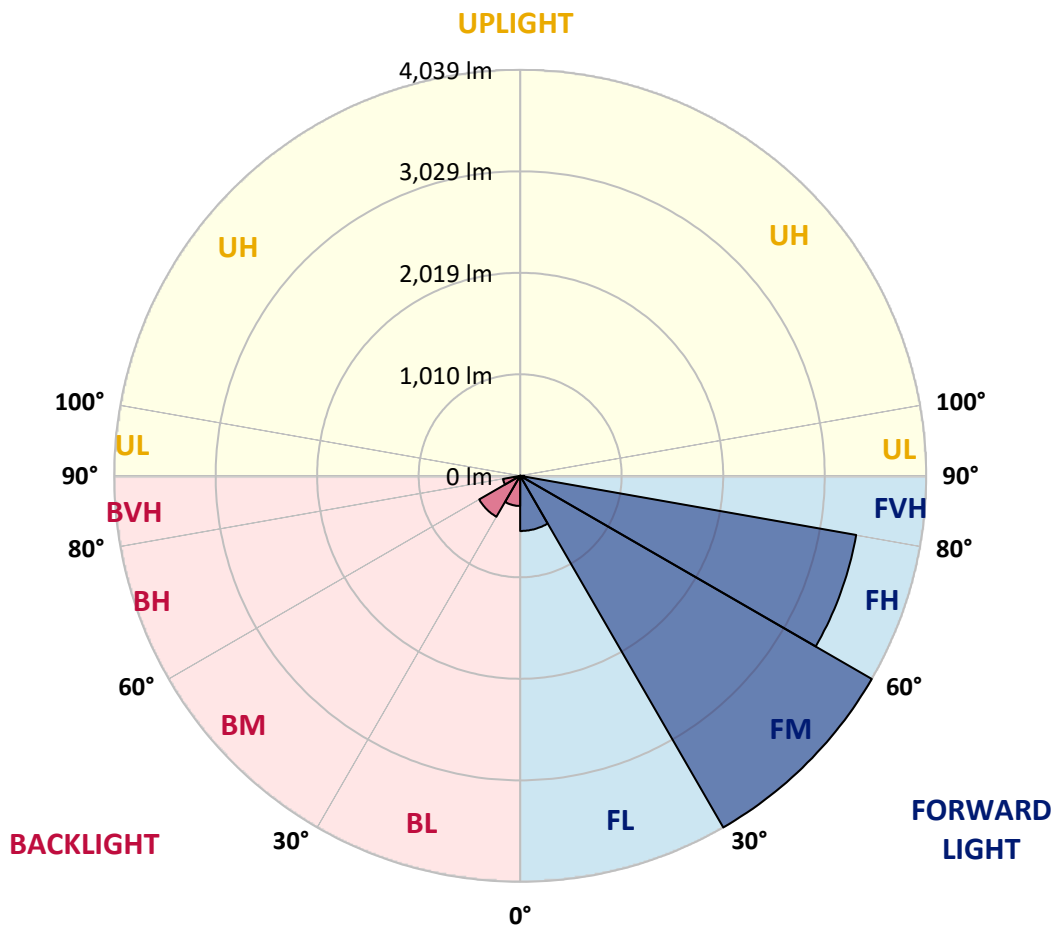
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.9	6.1			
FM (30°-60°)	4038.7	45.0			
FH (60°-80°)	3393.8	37.9			G2/5000
FVH (80°-90°)	39.5	0.4			G1/100
BL (0°-30°)	300.3	3.3	B1/500		
BM (30°-60°)	470.5	5.2	B1/1000		
BH (60°-80°)	173.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1313.0	1324.9	1323.2	1331.2	1334.0	1345.3	1356.6	1371.9	1388.9	1388.3
5°	1238.9	1250.8	1253.6	1264.3	1277.9	1295.5	1318.7	1349.3	1381.0	1386.1
7.5°	1151.1	1163.6	1170.9	1192.4	1217.3	1253.6	1291.5	1336.3	1388.9	1396.3
10°	1063.3	1074.7	1084.3	1114.9	1154.5	1208.3	1270.0	1334.6	1405.3	1416.1
12.5°	1009.0	1019.7	1030.5	1057.1	1106.4	1172.1	1255.8	1342.5	1432.5	1447.8
15°	989.7	999.4	1007.9	1031.6	1077.5	1152.2	1253.0	1358.9	1467.0	1487.4
17.5°	992.6	997.7	1003.3	1021.4	1066.2	1143.2	1258.1	1387.2	1507.8	1525.9
20°	1009.0	1011.8	1012.4	1024.8	1064.5	1142.0	1268.3	1414.4	1546.3	1570.7
22.5°	1029.9	1031.1	1029.9	1038.4	1075.2	1150.5	1281.9	1447.2	1589.3	1612.0
25°	1127.9	1106.4	1079.2	1062.8	1093.3	1167.0	1302.3	1491.4	1636.3	1658.4
27.5°	1431.9	1370.2	1272.8	1163.6	1130.7	1190.7	1330.6	1536.1	1683.9	1703.7
30°	1925.7	1844.7	1679.4	1433.1	1250.8	1240.6	1367.4	1580.9	1734.3	1755.8
32.5°	2420.5	2400.7	2209.9	1869.1	1520.8	1351.5	1428.5	1641.4	1801.1	1818.1
35°	2921.1	2880.9	2724.6	2387.7	1937.0	1577.5	1530.5	1720.7	1888.9	1908.1
37.5°	3304.4	3280.0	3183.2	2905.8	2430.7	1926.2	1704.9	1843.6	2016.3	2037.8
40°	3643.0	3631.7	3598.8	3415.9	2982.8	2382.6	1976.1	2033.8	2192.9	2218.4
42.5°	3909.1	3935.7	3954.4	3903.4	3551.8	2903.5	2340.7	2301.1	2439.2	2465.3
45°	4181.4	4190.5	4265.8	4339.4	4116.9	3448.2	2751.8	2614.2	2745.5	2777.8
47.5°	4356.4	4392.6	4525.1	4654.8	4591.9	3988.4	3193.4	2983.9	3100.6	3161.1
50°	4369.4	4437.9	4620.3	4846.2	4937.9	4502.5	3673.6	3405.2	3529.2	3596.0
52.5°	4152.6	4259.0	4541.6	4872.2	5124.7	4937.9	4170.1	3826.4	3985.5	4072.7
55°	3183.8	3323.1	4245.4	4730.7	5132.1	5268.0	4653.7	4265.2	4494.0	4592.5
57.5°	2773.9	2844.1	3337.8	4484.9	4995.7	5401.1	5090.8	4683.1	5047.2	5169.5
60°	2307.9	2400.2	2799.3	4082.9	4810.5	5414.1	5476.9	5222.1	5646.8	5784.4
62.5°	1568.4	1668.6	2065.5	3392.2	4557.4	5407.9	5793.4	5777.0	6313.2	6461.0
65°	971.6	1034.5	1296.1	2769.9	4203.5	5414.6	6124.7	6450.8	7016.5	7166.5
67.5°	767.8	796.7	933.1	2126.7	3593.7	5261.8	6455.3	7084.4	7678.3	7797.3
70°	515.8	533.4	678.9	1425.7	2673.6	4556.3	6449.1	7402.6	8019.2	8078.7
72.5°	271.8	285.4	396.9	660.2	1614.8	3238.7	5436.2	7022.1	7680.0	7590.6
75°	135.9	158.5	267.3	335.2	689.6	1806.2	3375.7	5536.4	6044.8	5698.3
77.5°	103.0	124.6	220.8	220.8	240.1	608.1	1429.7	3019.6	2785.2	2319.2
80°	65.7	84.9	193.1	167.0	100.2	154.6	372.6	845.9	591.7	450.1
82.5°	38.5	55.5	160.8	110.4	56.1	57.2	105.3	180.1	153.4	119.5
85°	15.3	36.2	110.4	43.6	22.1	14.2	31.7	38.5	31.7	23.8
87.5°	0.0	8.5	19.3	0.0	1.7	1.1	2.3	2.8	2.8	2.3
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°
1398.5	0°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
1399.7	2.5°	1404.8	1405.9	1409.3	1409.9	1401.9	1391.7	1387.8	1386.1	1379.3	1378.7
1408.7	5°	1421.7	1426.8	1421.7	1407.0	1371.9	1322.7	1285.3	1254.7	1227.0	1218.5
1439.9	7.5°	1455.7	1460.8	1445.5	1387.8	1299.4	1201.5	1113.2	1050.9	994.8	973.9
1477.8	10°	1504.4	1511.2	1463.1	1346.4	1190.2	1032.8	883.3	778.0	695.9	662.5
1529.3	12.5°	1565.6	1568.4	1472.7	1283.6	1048.1	823.3	611.5	498.8	425.8	398.6
1591.6	15°	1632.9	1629.0	1473.8	1198.1	854.4	582.1	399.2	327.8	298.4	289.3
1653.9	17.5°	1703.7	1687.3	1451.2	1074.7	642.1	398.0	296.1	279.1	274.0	271.8
1715.6	20°	1773.4	1736.6	1409.9	913.3	460.9	297.3	268.9	263.9	261.0	259.9
1777.9	22.5°	1836.8	1773.9	1339.1	725.9	334.6	262.7	254.2	249.7	244.6	242.3
1838.5	25°	1898.5	1795.4	1239.4	550.9	267.8	245.7	238.9	230.4	223.7	220.8
1903.6	27.5°	1958.5	1809.0	1114.9	407.7	238.9	229.9	217.4	205.5	200.4	199.3
1973.2	30°	2022.5	1813.6	973.3	304.1	221.4	210.1	191.9	178.4	175.5	176.1
2067.2	32.5°	2100.6	1820.4	830.6	249.1	206.7	186.3	164.8	150.6	148.3	150.6
2204.2	35°	2194.1	1833.9	693.0	229.3	193.6	161.9	138.7	126.8	124.6	126.3
2379.8	37.5°	2320.9	1856.0	564.5	225.4	182.9	141.6	116.6	107.0	107.0	107.6
2594.9	40°	2489.6	1914.9	449.6	222.5	177.2	126.3	98.5	94.6	96.3	97.4
2869.0	42.5°	2695.2	2040.0	372.0	219.1	171.0	119.5	89.5	87.8	90.6	91.7
3197.4	45°	2925.6	2198.6	344.8	213.5	165.3	124.0	85.5	83.2	86.6	87.2
3565.4	47.5°	3164.0	2353.7	341.4	207.2	159.7	130.8	84.4	79.3	83.2	83.8
3958.4	50°	3405.2	2455.1	344.8	197.6	150.6	130.8	84.9	75.3	78.7	80.4
4366.0	52.5°	3648.1	2501.5	342.6	176.7	134.8	122.9	84.9	71.9	75.3	76.4
4806.5	55°	3883.6	2492.4	308.0	145.5	114.4	108.7	82.7	69.1	71.3	71.9
5222.7	57.5°	4069.9	2366.2	244.0	113.2	92.9	90.6	75.3	65.7	67.4	66.8
5604.3	60°	4167.3	2088.7	174.4	87.2	73.0	71.3	66.2	61.2	62.3	59.5
5927.6	62.5°	4168.4	1721.8	116.6	69.1	58.3	56.6	56.6	54.9	53.8	48.1
6177.9	65°	4079.5	1314.7	77.6	54.9	47.0	44.2	47.6	47.0	43.0	35.1
6254.3	67.5°	3878.0	861.8	58.9	43.0	36.2	34.5	37.9	39.6	36.8	29.4
5975.8	70°	3463.5	501.7	48.7	33.4	27.2	25.5	30.6	34.0	30.6	23.8
5107.8	72.5°	2876.9	270.6	39.6	24.9	18.7	17.0	24.3	27.7	24.3	17.6
3277.2	75°	1866.8	144.9	30.6	16.4	9.6	10.8	18.1	20.4	17.0	11.3
962.0	77.5°	626.8	64.0	19.3	7.9	4.5	4.5	10.8	12.5	7.9	4.0
175.0	80°	139.9	26.6	7.9	3.4	1.7	1.7	2.3	2.3	1.1	0.0
53.8	82.5°	45.9	10.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.6	85°	17.6	4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	6.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
1398.5
1379.8
1213.4
965.4
648.3
390.1
289.3
271.2
258.8
241.8
219.7
198.2
176.1
150.0
125.7
107.0
97.4
91.7
87.8
84.4
81.0
76.4
71.9
66.8
58.9
46.4
34.0
28.9
22.6
17.0
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