

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: P940066

Luminaire Tested: **GALN-SB2D-950-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-950-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

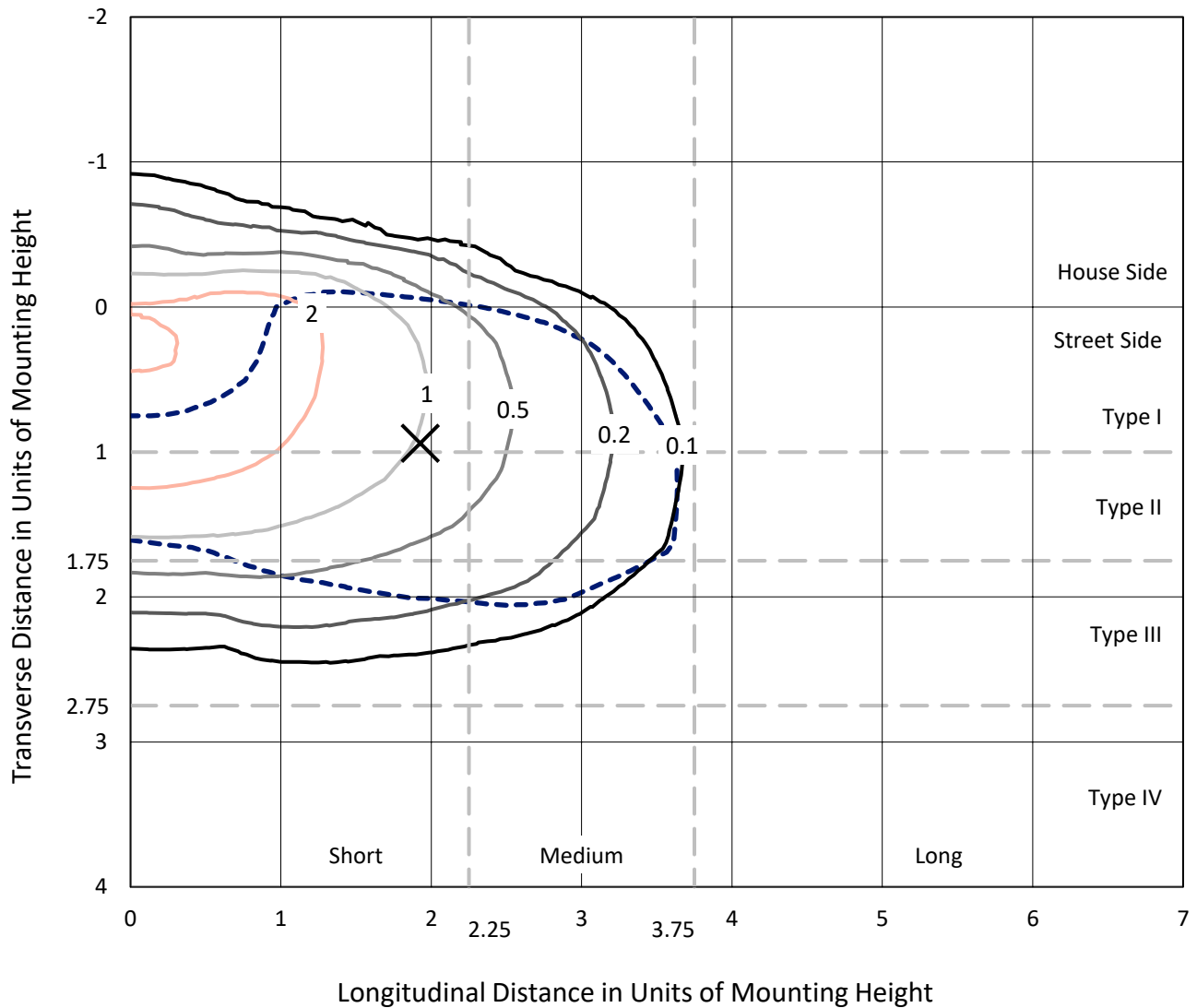
Lumens per Lamp: N/A  
Luminaire Lumens: 11103 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

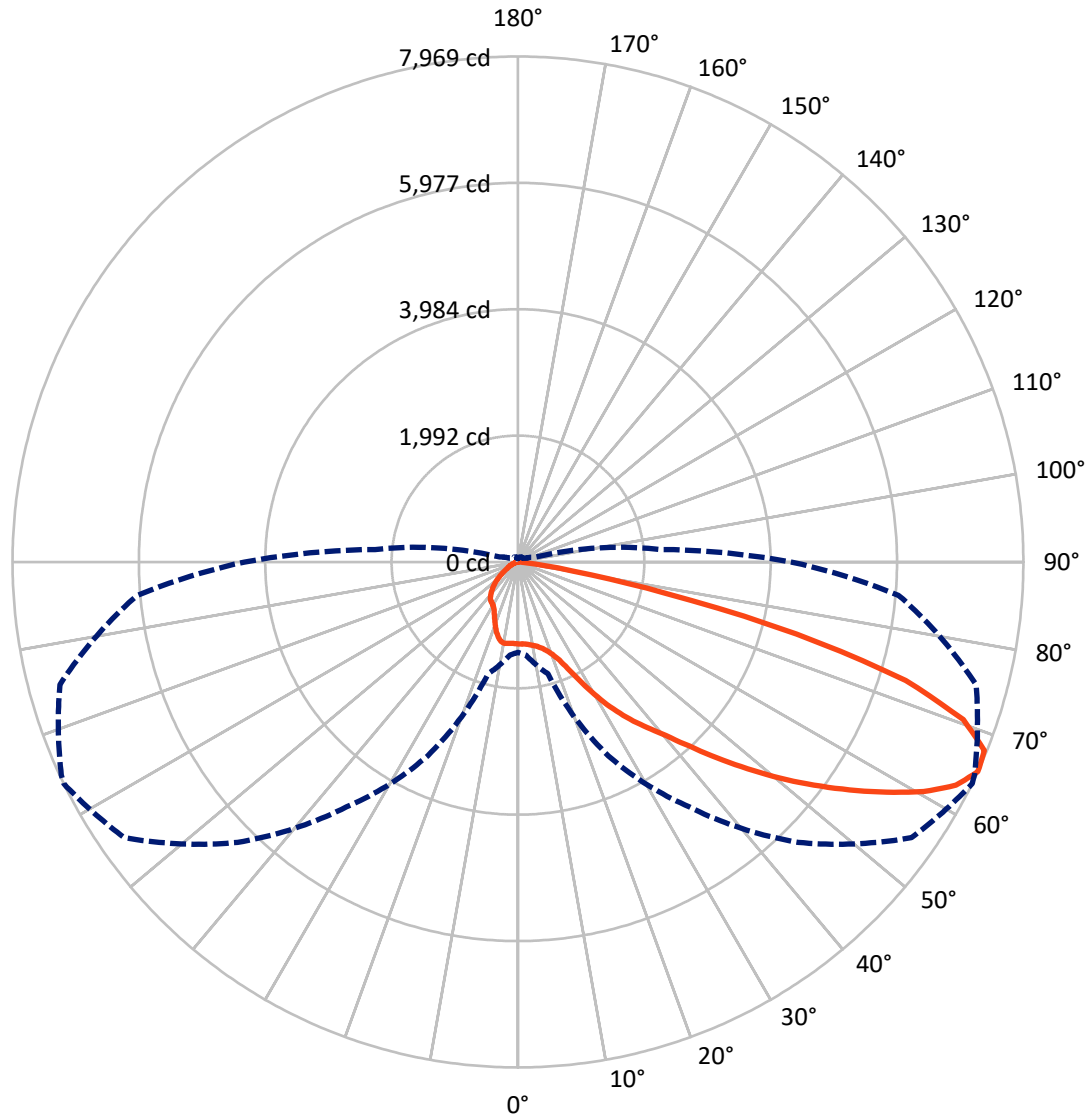
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1484.8	0.0	1484.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9618.2	0.0	9618.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11103.0	0.0	11103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	1.1
10°-20°	323.2	2.9
20°-30°	612.3	5.5
30°-40°	1239.1	11.2
40°-50°	2110.8	19.0
50°-60°	2870.5	25.9
60°-70°	2695.6	24.3
70°-80°	1080.0	9.7
80°-90°	52.3	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°	11103.0	100.0
0°-180°	11103.0	100.0

**Coefficient of Utilization**



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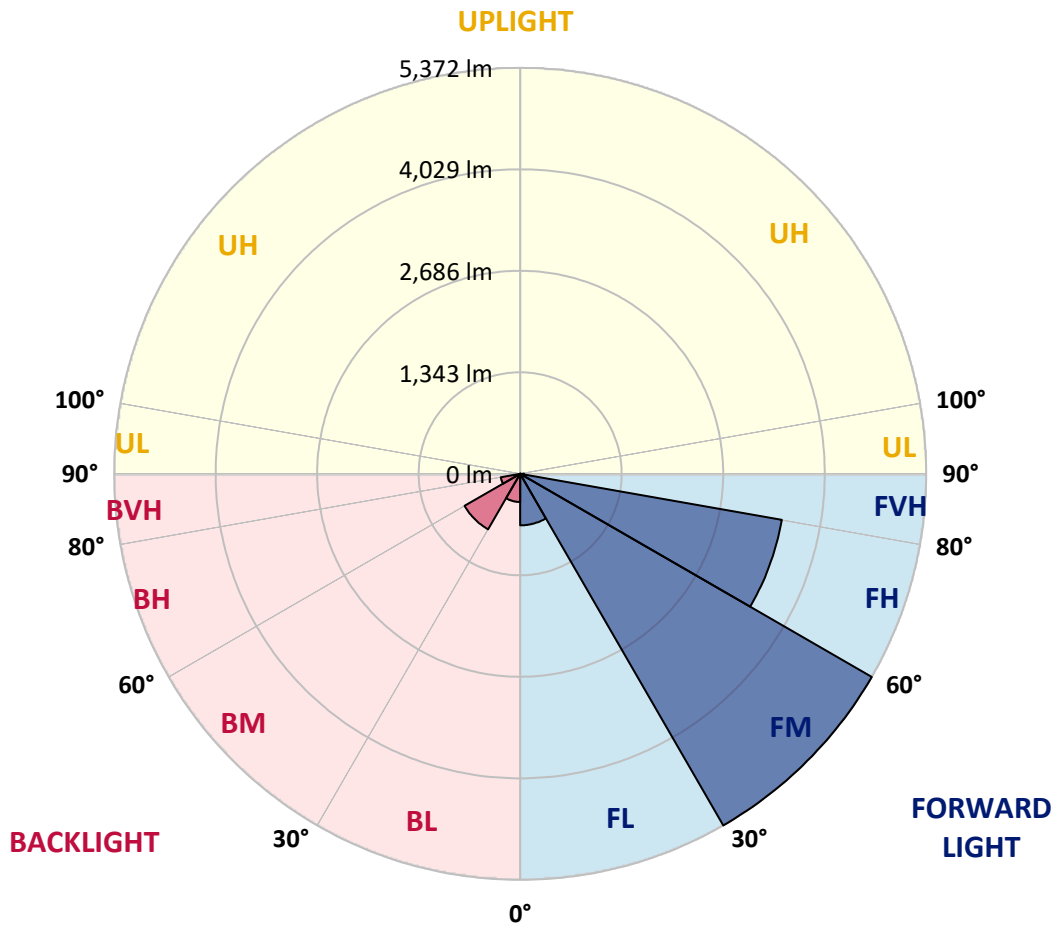
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.9	6.1			
FM (30°-60°)	5371.6	48.4			
FH (60°-80°)	3515.0	31.7			G2/5000
FVH (80°-90°)	49.8	0.4			G1/100
BL (0°-30°)	372.8	3.4	B1/500		
BM (30°-60°)	848.8	7.6	B1/1000		
BH (60°-80°)	260.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1286.9	1295.9	1293.6	1291.4	1290.6	1292.1	1292.9	1292.1	1292.1	1292.1
5°	1262.4	1269.8	1269.8	1275.0	1282.5	1291.4	1298.1	1299.6	1301.1	1303.3
7.5°	1215.5	1221.4	1225.9	1243.0	1261.6	1285.4	1305.5	1316.0	1317.4	1325.6
10°	1183.5	1190.9	1198.4	1216.2	1243.0	1278.7	1313.0	1338.3	1342.0	1361.4
12.5°	1182.0	1189.4	1199.1	1218.5	1249.7	1287.7	1329.4	1365.8	1372.5	1400.8
15°	1197.6	1206.5	1215.5	1239.3	1272.8	1318.9	1363.6	1409.0	1415.7	1455.9
17.5°	1229.6	1241.5	1248.2	1272.0	1307.8	1359.1	1417.9	1470.0	1476.0	1522.9
20°	1292.9	1307.0	1309.3	1328.6	1363.6	1418.7	1488.6	1553.4	1560.8	1614.4
22.5°	1423.9	1444.0	1426.1	1435.8	1467.1	1522.1	1598.1	1679.9	1690.3	1751.4
25°	1654.6	1682.9	1636.8	1620.4	1633.8	1691.1	1786.4	1889.8	1901.7	1950.9
27.5°	2107.9	2071.4	2001.5	1933.0	1892.8	1925.6	2032.7	2160.8	2175.6	2223.3
30°	2605.9	2573.9	2479.3	2327.5	2232.2	2227.0	2326.0	2468.9	2486.0	2531.4
32.5°	3104.6	3074.0	2971.3	2784.5	2619.3	2537.4	2605.9	2764.4	2773.3	2802.4
35°	3595.1	3563.8	3461.1	3269.8	3066.6	2880.5	2867.1	3045.8	3048.7	3079.2
37.5°	4088.5	4062.5	3953.1	3765.5	3565.3	3308.5	3184.2	3312.2	3315.9	3345.7
40°	4440.6	4451.8	4376.6	4231.5	4059.5	3778.9	3540.0	3595.8	3573.5	3623.3
42.5°	4742.8	4765.1	4699.6	4626.7	4527.0	4279.8	3980.6	3970.9	3935.2	3962.0
45°	5004.1	5022.7	4963.9	4946.7	4944.5	4771.1	4462.2	4404.1	4354.3	4349.1
47.5°	5100.1	5135.8	5161.1	5218.4	5330.1	5257.1	4960.1	4870.1	4814.3	4773.3
50°	5136.5	5174.5	5260.8	5427.6	5691.8	5723.1	5455.9	5354.6	5286.2	5211.7
52.5°	5087.4	5155.2	5271.3	5551.9	5935.2	6096.7	5931.5	5842.9	5764.8	5643.4
55°	4797.9	4865.6	5103.1	5550.4	6056.5	6358.7	6381.1	6341.6	6253.8	6062.5
57.5°	4187.5	4288.0	4663.9	5361.3	6054.3	6584.2	6821.7	6850.0	6751.7	6477.8
60°	3342.0	3478.2	3936.7	4942.3	5867.5	6706.3	7208.0	7349.4	7245.2	6887.2
62.5°	2332.0	2489.7	2923.7	4285.8	5440.2	6618.5	7490.1	7751.3	7672.4	7253.4
65°	1422.4	1473.0	1822.8	3372.5	4713.8	6250.8	7577.2	7968.7	7942.6	7477.4
67.5°	947.5	989.9	1090.4	2312.6	3659.1	5516.2	7368.8	7930.7	7938.2	7441.0
70°	570.9	607.4	672.9	1345.0	2371.4	4366.2	6723.4	7446.9	7490.1	6953.4
72.5°	235.2	259.8	319.3	609.6	1228.1	2771.1	5353.9	6393.7	6494.2	5846.6
75°	133.2	145.9	187.6	305.9	532.9	1291.4	3243.0	4538.9	4687.0	4029.7
77.5°	88.6	94.5	121.3	198.0	300.0	440.6	1385.9	2364.7	2647.5	2201.0
80°	59.5	64.8	83.4	132.5	195.0	189.1	441.4	876.1	1077.8	756.2
82.5°	40.2	40.9	59.5	87.1	123.6	91.6	130.3	272.4	342.4	218.8
85°	23.1	22.3	43.9	50.6	55.1	38.0	39.4	81.9	107.2	92.3
87.5°	3.0	4.5	17.1	13.4	7.4	8.2	8.2	14.1	20.8	22.3
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°
1291.4	0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
1292.9	2.5°	1292.9	1292.1	1289.9	1287.7	1282.5	1279.5	1281.0	1279.5	1278.7	1279.5
1302.6	5°	1302.6	1300.3	1294.4	1286.9	1276.5	1263.9	1255.7	1243.8	1232.6	1225.9
1328.6	7.5°	1328.6	1326.4	1318.2	1297.3	1263.9	1211.0	1162.6	1120.2	1088.2	1069.6
1370.3	10°	1370.3	1366.6	1353.9	1307.8	1219.9	1104.6	1008.6	928.9	876.8	852.2
1419.4	12.5°	1419.4	1415.0	1392.6	1298.1	1136.6	956.5	824.0	735.4	687.0	665.4
1476.0	15°	1477.5	1471.5	1427.6	1251.9	1015.3	792.7	671.4	605.1	573.9	554.5
1548.2	17.5°	1549.7	1539.3	1453.7	1182.7	883.5	667.7	577.6	527.7	500.2	481.6
1642.7	20°	1643.5	1626.3	1474.5	1100.1	762.2	588.8	514.3	472.6	451.8	435.4
1776.7	22.5°	1774.5	1749.9	1499.8	1010.8	676.6	534.4	467.4	436.9	419.8	401.2
1963.5	25°	1936.7	1907.7	1531.1	928.2	617.8	487.5	433.2	407.9	387.8	366.2
2208.4	27.5°	2163.7	2111.6	1568.3	860.4	567.2	447.3	401.9	373.6	350.6	332.7
2486.0	30°	2416.8	2331.2	1601.0	819.5	521.0	410.1	361.0	332.7	311.1	298.5
2735.4	32.5°	2656.5	2540.4	1622.6	801.6	479.3	367.7	316.3	285.8	269.4	265.7
2979.5	35°	2882.7	2729.4	1620.4	784.5	442.1	325.3	272.4	241.2	228.5	230.7
3242.3	37.5°	3143.3	2931.1	1604.8	757.7	411.6	286.6	234.5	206.9	195.8	196.5
3561.6	40°	3446.2	3164.1	1595.1	707.1	378.1	250.8	203.2	180.9	172.7	169.7
3898.0	42.5°	3769.2	3389.6	1596.6	649.8	336.4	218.8	181.6	163.0	155.6	153.3
4272.4	45°	4093.8	3604.7	1598.8	590.2	292.5	194.3	166.0	150.4	145.9	142.9
4652.0	47.5°	4398.9	3787.8	1557.1	526.2	249.3	175.7	153.3	142.9	139.2	135.5
5033.1	50°	4683.3	3909.9	1456.6	451.8	215.1	160.8	143.7	136.2	132.5	128.8
5378.5	52.5°	4904.3	3929.3	1290.6	375.1	191.3	149.6	137.7	131.0	126.5	122.8
5657.6	55°	5002.6	3807.9	1054.7	303.7	172.7	139.9	131.7	125.0	119.8	116.1
5877.1	57.5°	4977.3	3552.6	822.5	244.1	154.8	130.3	124.3	119.8	113.9	107.9
6055.0	60°	4853.0	3211.0	620.0	203.2	138.4	119.8	116.1	112.4	104.2	95.3
6123.5	62.5°	4637.9	2781.5	442.1	168.2	120.6	107.9	106.4	103.5	91.6	75.2
6022.3	65°	4308.9	2259.8	297.7	139.9	103.5	94.5	95.3	90.1	74.4	55.8
5651.6	67.5°	3828.0	1652.4	190.5	114.6	86.3	78.9	79.6	76.7	63.3	47.6
4949.0	70°	3215.5	1094.1	124.3	87.1	69.2	61.0	65.5	66.2	53.6	38.7
3798.3	72.5°	2357.3	646.1	87.1	64.8	50.6	42.4	53.6	55.1	43.2	29.0
2285.1	75°	1343.5	306.7	65.5	46.9	31.3	29.8	41.7	41.7	29.8	19.4
989.2	77.5°	564.2	128.0	46.1	30.5	17.9	17.1	28.3	26.1	14.9	8.9
241.2	80°	163.0	57.3	24.6	14.9	7.4	6.7	11.2	8.2	3.7	1.5
91.6	82.5°	64.0	25.3	9.7	6.0	3.0	3.0	1.5	0.0	0.0	0.0
52.1	85°	38.0	10.4	4.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	9.7	2.2	1.5	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

<u>180°</u>
1291.4
1282.5
1227.4
1070.3
850.0
663.2
555.3
480.1
432.4
398.2
364.0
329.0
296.2
268.0
230.7
199.5
169.0
152.6
142.9
135.5
128.8
122.1
115.4
107.2
93.8
73.7
54.3
45.4
37.2
27.5
17.9
8.9
1.5
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