

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: P950809

Luminaire Tested: **GALN-SB5A-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10541 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

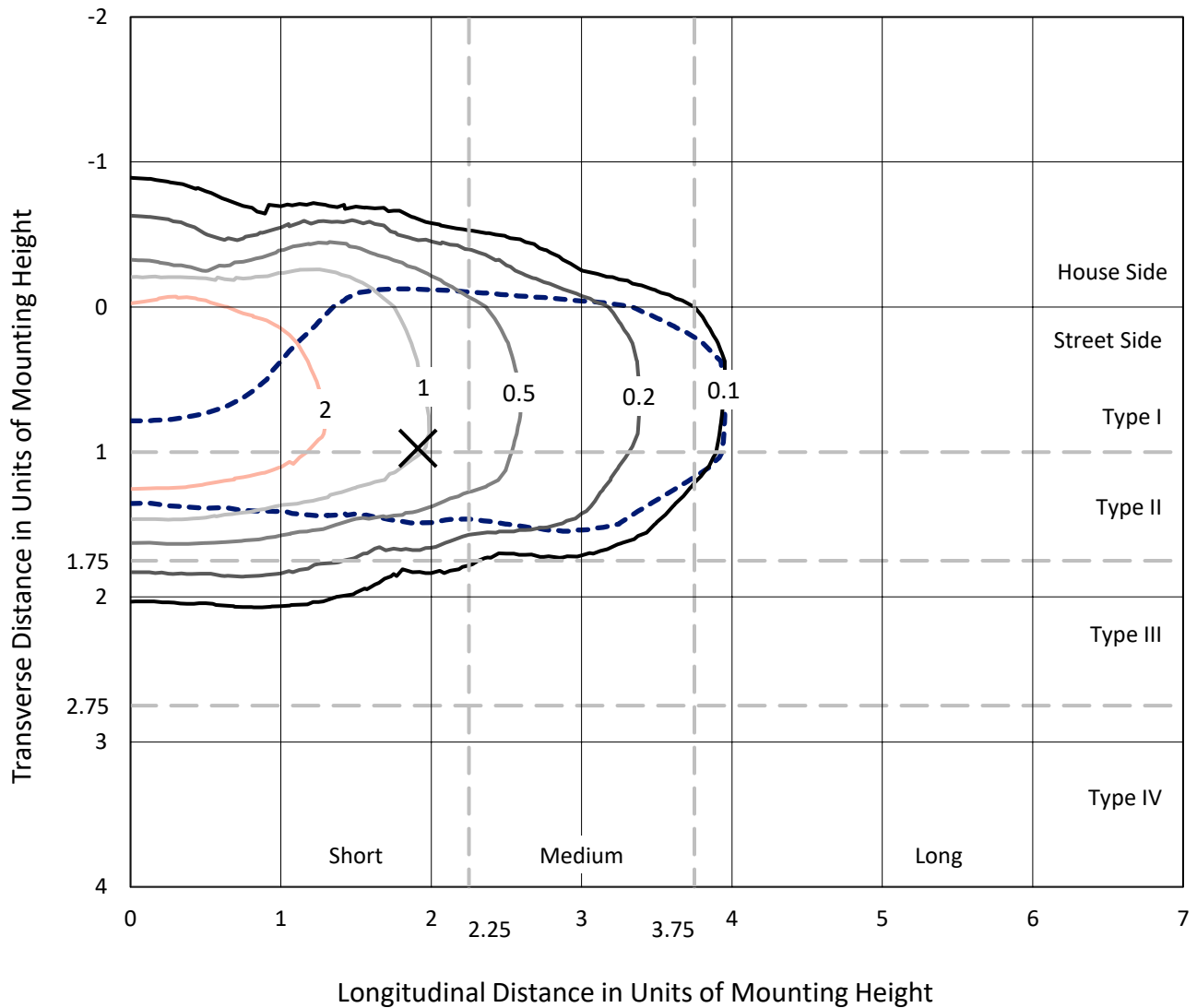
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

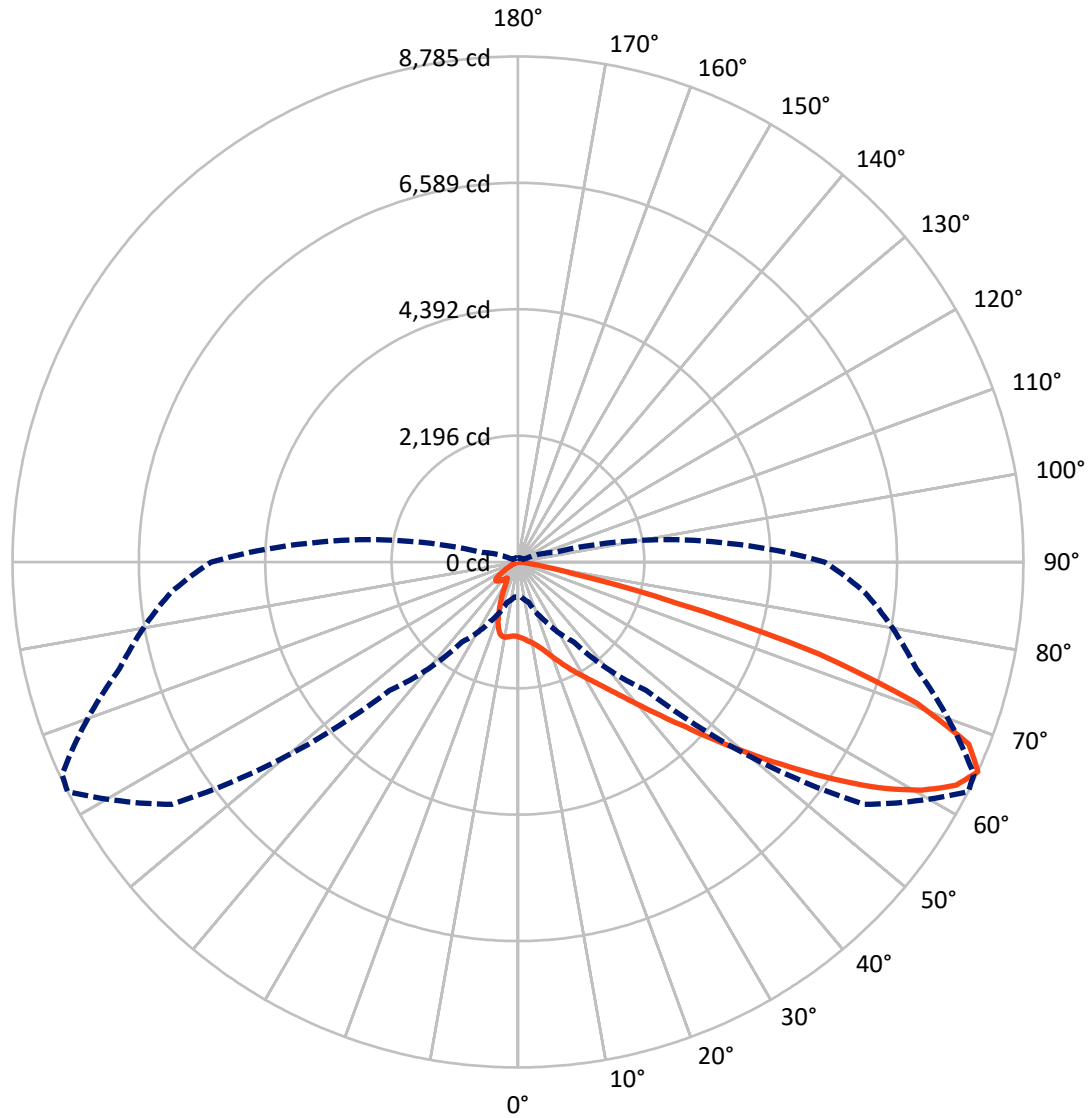
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.4	0.0	1549.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8991.6	0.0	8991.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	10541.0	0.0	10541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.2
10°-20°	340.1	3.2
20°-30°	592.2	5.6
30°-40°	1067.4	10.1
40°-50°	2117.0	20.1
50°-60°	2883.6	27.4
60°-70°	2301.7	21.8
70°-80°	1041.6	9.9
80°-90°	74.9	0.7
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°	10541.0	100.0
0°-180°	10541.0	100.0

Coefficient of Utilization



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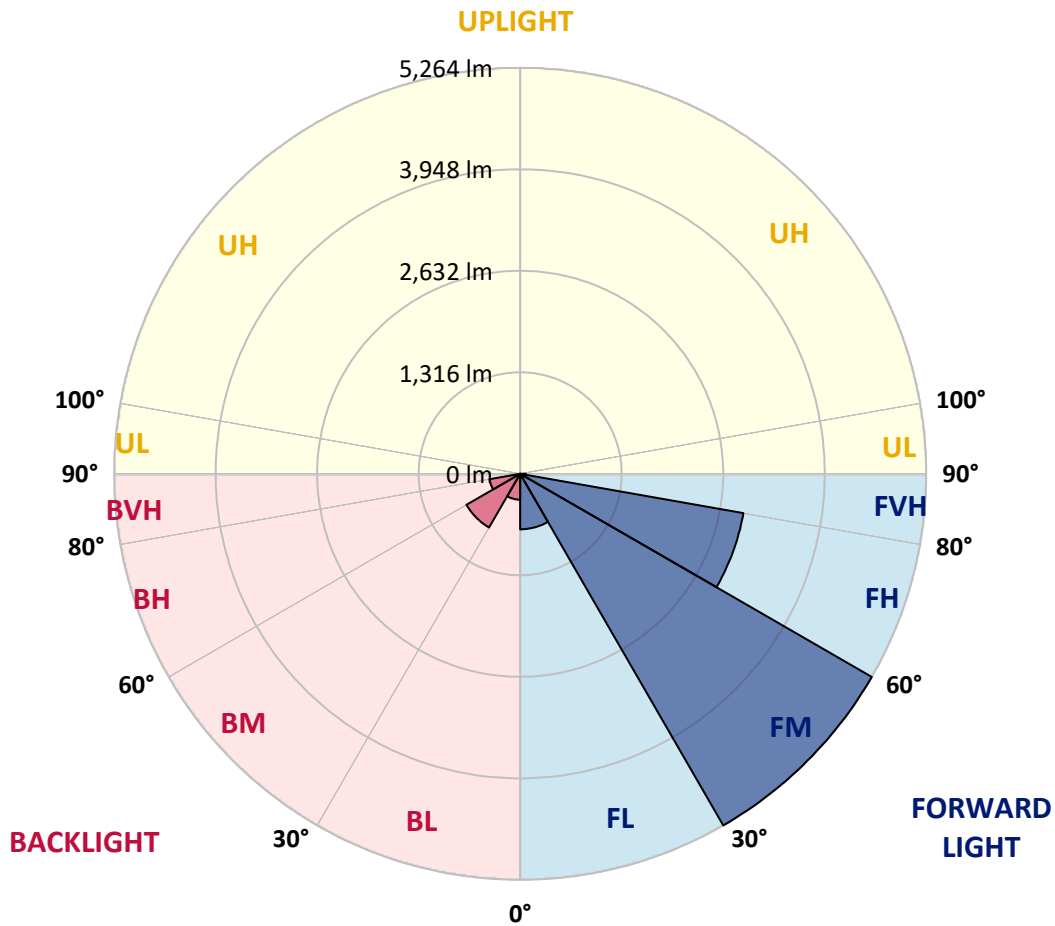
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.6	6.8			
FM (30°-60°)	5263.9	49.9			
FH (60°-80°)	2938.8	27.9			G2/5000
FVH (80°-90°)	69.3	0.7			G1/100
BL (0°-30°)	335.3	3.2	B1/500		
BM (30°-60°)	804.1	7.6	B1/1000		
BH (60°-80°)	404.5	3.8	B1/500		G1/500
BVH (80°-90°)	5.6	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0
2.5°	1331.4	1327.8	1332.9	1330.7	1329.2	1326.3	1324.9	1323.4	1320.5	1318.4
5°	1335.0	1332.9	1337.9	1342.3	1346.6	1351.0	1353.2	1356.1	1353.2	1347.4
7.5°	1304.6	1303.1	1314.0	1327.1	1346.6	1363.3	1381.5	1391.6	1392.3	1390.2
10°	1302.4	1298.8	1309.7	1325.6	1351.0	1380.7	1412.6	1434.4	1437.3	1446.7
12.5°	1336.5	1332.9	1348.1	1365.5	1391.6	1422.8	1461.9	1492.4	1496.8	1509.8
15°	1393.8	1388.7	1406.1	1428.6	1461.9	1497.5	1538.8	1566.4	1570.0	1586.0
17.5°	1460.5	1455.4	1475.7	1499.7	1535.9	1584.5	1632.4	1662.8	1667.2	1677.3
20°	1546.1	1539.5	1555.5	1577.2	1615.7	1673.7	1731.0	1774.5	1773.8	1773.8
22.5°	1645.4	1635.3	1649.0	1666.4	1702.7	1773.0	1849.2	1900.7	1900.7	1880.4
25°	1752.0	1741.9	1757.1	1773.0	1805.0	1884.7	1973.9	2037.7	2040.6	2005.8
27.5°	1885.4	1872.4	1884.0	1902.9	1921.7	2002.9	2108.8	2182.8	2184.2	2130.6
30°	2142.2	2105.2	2068.9	2048.6	2057.3	2137.8	2250.9	2332.9	2340.1	2266.2
32.5°	2612.1	2604.8	2477.2	2310.4	2223.4	2282.8	2409.7	2508.4	2512.7	2417.7
35°	3342.3	3333.6	3128.4	2810.8	2527.2	2477.2	2602.6	2719.4	2716.5	2609.2
37.5°	4214.0	4206.0	3935.5	3510.6	3051.5	2770.9	2851.4	2973.9	2992.1	2851.4
40°	4958.7	4929.0	4757.9	4348.1	3747.7	3258.2	3205.3	3286.5	3305.3	3138.5
42.5°	5522.9	5497.5	5410.5	5154.5	4590.3	3979.0	3622.2	3653.4	3674.4	3474.3
45°	5815.2	5809.4	5844.2	5820.2	5448.9	4863.7	4218.3	4088.5	4096.5	3846.3
47.5°	5856.5	5853.6	6012.4	6237.2	6187.2	5861.6	4983.4	4630.9	4602.7	4266.2
50°	5612.8	5607.0	5911.6	6332.9	6680.3	6699.9	5852.1	5242.3	5179.9	4700.6
52.5°	4834.7	4833.3	5333.6	6034.9	6853.6	7433.7	6710.7	5913.8	5809.4	5160.3
55°	3720.1	3747.0	4320.6	5149.4	6537.4	7786.9	7481.6	6659.3	6499.0	5623.0
57.5°	2635.3	2674.4	3241.5	3979.7	5557.0	7578.0	8003.0	7406.2	7233.6	6084.2
60°	1415.5	1450.3	2018.2	2899.2	4134.2	6799.2	8277.8	8054.5	7891.3	6522.2
62.5°	843.4	855.0	1089.9	1871.7	2796.3	5194.4	8161.1	8548.3	8414.2	6889.9
65°	605.5	607.7	725.9	1142.9	1697.6	3155.9	7342.4	8784.7	8743.4	7166.9
67.5°	509.8	508.3	557.7	759.3	1156.6	1580.9	5627.3	8450.4	8625.9	7342.4
70°	437.3	439.5	497.5	556.2	869.5	894.9	2797.7	7357.6	7731.8	7388.8
72.5°	325.6	332.9	386.5	506.9	656.3	615.7	965.9	5455.5	6132.1	6961.7
75°	229.9	233.5	271.9	426.4	489.5	448.2	493.1	2820.2	3687.5	5337.3
77.5°	176.9	183.5	205.9	298.0	482.2	314.7	301.7	976.1	1499.7	3224.1
80°	95.7	107.3	148.7	215.4	338.7	222.6	149.4	388.7	508.3	1507.6
82.5°	49.3	55.1	103.7	155.2	192.9	194.3	74.0	161.7	209.6	465.6
85°	19.6	23.9	69.6	85.6	99.3	95.7	33.4	65.3	75.4	129.1
87.5°	4.4	7.3	25.4	19.6	18.9	20.3	8.0	15.2	14.5	15.2
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°
1301.0	0°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0
1309.7	2.5°	1308.9	1306.0	1298.1	1289.4	1279.2	1273.4	1269.8	1269.1	1264.0	1260.3
1338.7	5°	1330.7	1327.8	1312.6	1294.4	1274.9	1259.6	1245.1	1232.1	1213.2	1209.6
1380.7	7.5°	1374.2	1366.2	1341.6	1316.9	1279.9	1235.7	1182.0	1120.4	1065.3	1048.6
1436.6	10°	1427.9	1417.0	1385.8	1342.3	1260.3	1140.0	1010.2	889.8	794.1	767.2
1502.6	12.5°	1488.8	1479.4	1438.0	1357.5	1178.4	960.1	761.4	612.0	519.2	496.0
1572.9	15°	1561.3	1547.5	1490.2	1334.3	1031.9	729.5	522.8	434.4	401.0	396.7
1653.4	17.5°	1638.2	1615.7	1536.6	1250.9	834.7	518.5	403.9	378.5	364.0	359.7
1734.6	20°	1708.5	1679.5	1564.2	1124.7	623.6	403.9	361.9	345.2	332.1	327.1
1815.8	22.5°	1778.8	1737.5	1564.2	952.9	467.7	358.2	332.1	316.9	301.7	295.1
1902.9	25°	1852.1	1797.0	1536.6	761.4	376.4	328.5	303.8	287.2	274.1	266.1
1985.5	27.5°	1923.2	1847.0	1473.5	580.1	335.0	302.4	277.7	261.8	249.5	243.7
2075.4	30°	1990.6	1896.3	1385.1	440.2	308.2	277.0	253.8	240.0	227.7	221.9
2192.2	32.5°	2082.0	1958.7	1290.8	361.1	285.0	253.1	232.1	219.0	208.1	203.8
2343.8	35°	2208.9	2050.8	1209.6	354.6	265.4	233.5	212.5	200.1	189.3	185.6
2539.6	37.5°	2388.7	2199.4	1166.8	398.1	249.5	216.1	196.5	183.5	173.3	170.4
2788.3	40°	2610.6	2401.0	1190.0	441.6	238.6	200.9	182.0	169.0	160.3	156.6
3074.0	42.5°	2873.9	2649.8	1318.4	475.0	231.3	187.8	168.2	153.7	147.9	146.5
3398.2	45°	3176.3	2923.2	1514.9	510.5	219.7	175.5	154.5	143.6	139.2	138.5
3750.6	47.5°	3520.0	3223.4	1742.6	554.8	208.1	163.9	143.6	136.3	132.7	131.3
4118.3	50°	3860.8	3525.8	1976.8	579.4	198.7	153.0	134.9	129.1	126.2	125.5
4506.9	52.5°	4217.6	3836.9	2166.1	556.2	190.7	144.3	127.6	123.3	120.4	119.7
4865.2	55°	4557.7	4088.5	2198.7	472.1	174.8	135.6	119.7	117.5	113.9	113.9
5228.5	57.5°	4850.7	4214.7	1968.1	346.6	158.8	122.6	111.7	109.5	106.6	105.9
5556.3	60°	5119.7	4178.4	1519.2	233.5	141.4	109.5	101.5	100.1	97.2	93.5
5841.3	62.5°	5271.3	4018.9	1039.2	152.3	124.0	95.7	89.9	89.2	82.7	75.4
6052.3	65°	5328.6	3691.1	648.3	111.0	103.7	81.9	77.6	76.1	66.7	58.7
6171.9	67.5°	5278.5	3151.6	327.1	87.7	81.9	68.2	63.8	63.8	57.3	50.0
6164.7	70°	5078.4	2362.6	137.8	70.3	63.1	52.2	52.2	55.1	48.6	40.6
5844.9	72.5°	4644.0	1589.6	73.2	53.7	47.1	37.0	42.8	45.0	38.4	30.5
4784.0	75°	3691.9	969.6	50.8	39.9	29.7	26.1	32.6	34.1	26.1	20.3
3280.0	77.5°	2525.0	556.9	34.1	25.4	18.9	15.2	22.5	21.0	13.8	9.4
1264.7	80°	1108.8	232.1	19.6	11.6	7.3	5.8	8.0	5.8	4.4	2.9
173.3	82.5°	129.8	54.4	7.3	4.4	2.9	1.5	0.7	0.0	0.0	0.0
52.9	85°	26.8	6.5	3.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	5.1	1.5	0.7	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°
1301.0
1264.0
1208.1
1040.6
757.1
489.5
392.3
357.5
324.2
291.5
263.2
243.7
222.6
203.8
185.6
169.7
155.9
146.5
137.8
131.3
125.5
119.7
113.1
105.1
92.8
74.0
58.0
49.3
39.9
30.5
19.6
10.2
2.9
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