

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: P947600

Luminaire Tested: **GALN-SB2D-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

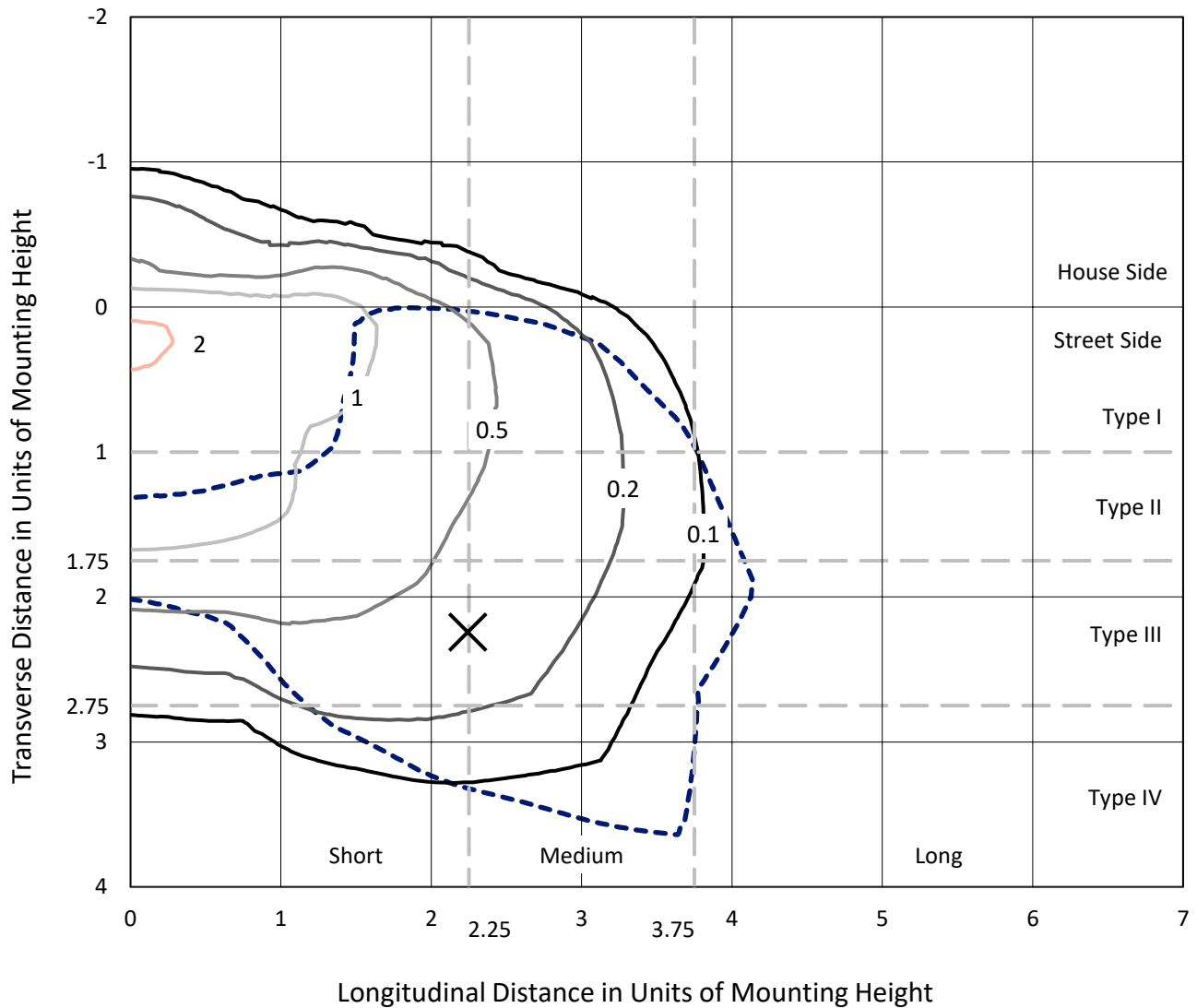
Lumens per Lamp: N/A  
Luminaire Lumens: 9542 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

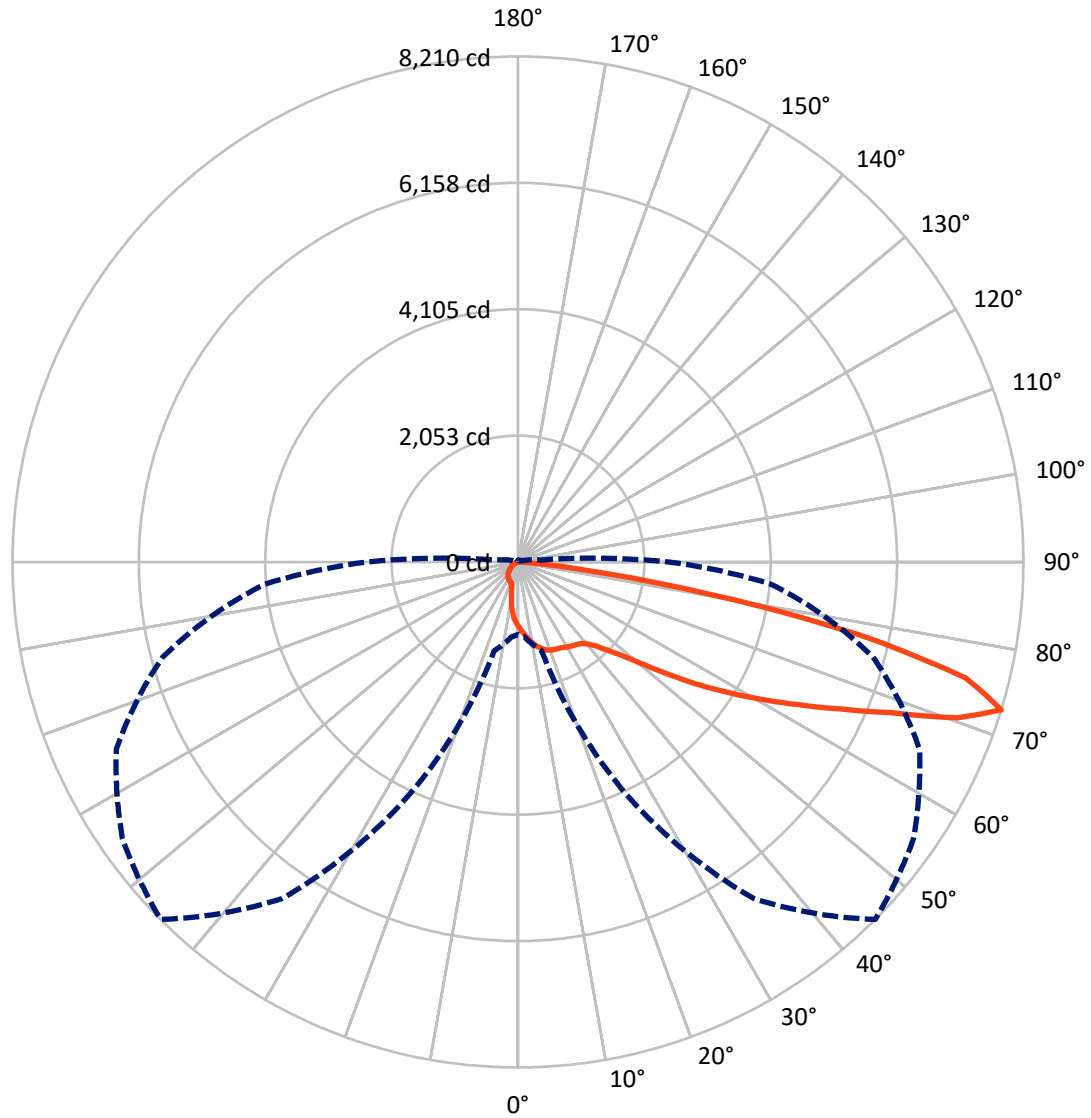
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1002.6	0.0	1002.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8539.4	0.0	8539.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9542.0	0.0	9542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.0
10°-20°	287.9	3.0
20°-30°	472.7	5.0
30°-40°	670.4	7.0
40°-50°	1108.1	11.6
50°-60°	1990.6	20.9
60°-70°	2764.0	29.0
70°-80°	2004.9	21.0
80°-90°	145.0	1.5
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°	9542.0	100.0
0°-180°	9542.0	100.0

**Coefficient of Utilization**



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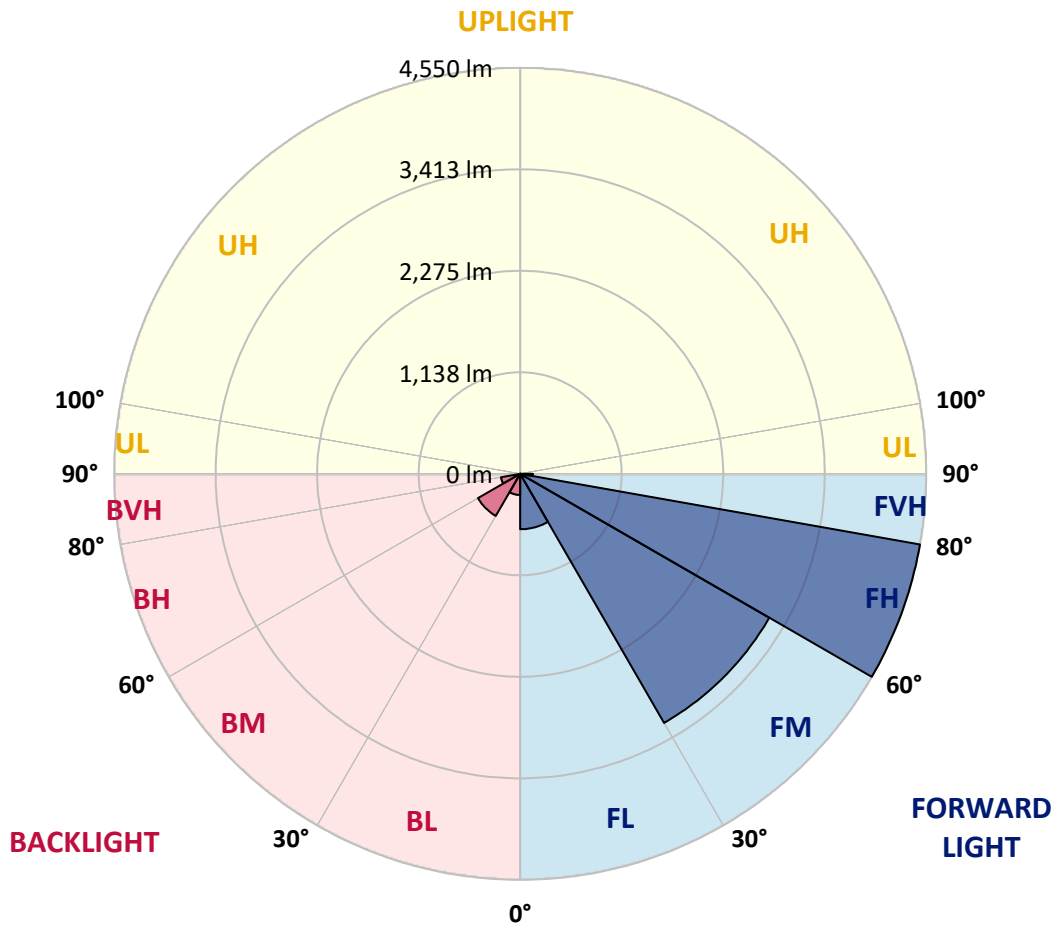
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.6	6.5			
FM (30°-60°)	3223.8	33.8			
FH (60°-80°)	4550.3	47.7			G2/5000
FVH (80°-90°)	143.7	1.5			G2/225
BL (0°-30°)	237.5	2.5	B1/500		
BM (30°-60°)	545.3	5.7	B1/1000		
BH (60°-80°)	218.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1141.7	1143.7	1142.4	1134.6	1121.5	1114.4	1110.5	1097.5	1089.0	1074.0
5°	1246.6	1254.4	1249.9	1234.2	1209.5	1191.9	1186.7	1160.0	1135.9	1107.9
7.5°	1358.0	1361.9	1353.4	1333.2	1300.0	1270.0	1265.5	1228.4	1189.9	1147.0
10°	1454.4	1458.9	1445.9	1416.6	1378.8	1341.7	1335.2	1294.1	1248.6	1195.8
12.5°	1535.1	1539.7	1522.8	1487.6	1445.9	1407.5	1401.0	1358.0	1307.8	1249.2
15°	1596.4	1604.8	1582.0	1544.2	1499.3	1460.9	1457.6	1415.3	1366.4	1301.3
17.5°	1632.2	1640.6	1619.1	1573.6	1535.1	1502.6	1498.7	1463.5	1417.9	1355.4
20°	1638.0	1645.9	1623.1	1583.3	1551.4	1525.4	1523.4	1498.0	1464.8	1404.9
22.5°	1620.4	1630.2	1609.4	1577.5	1555.3	1541.6	1539.0	1524.7	1505.8	1455.0
25°	1602.2	1610.0	1594.4	1566.4	1554.7	1553.4	1555.3	1552.7	1548.8	1505.8
27.5°	1600.9	1609.4	1591.8	1565.1	1558.6	1572.3	1574.2	1586.6	1589.8	1552.1
30°	1612.0	1617.8	1600.9	1572.9	1569.6	1600.9	1601.6	1623.7	1628.9	1591.1
32.5°	1636.1	1642.6	1625.7	1584.6	1580.1	1623.7	1625.7	1655.0	1663.4	1632.8
35°	1692.7	1700.6	1681.0	1617.2	1600.9	1645.2	1651.1	1685.6	1702.5	1677.1
37.5°	1834.1	1811.3	1784.6	1683.0	1648.5	1679.1	1688.8	1729.2	1759.2	1729.9
40°	2185.1	2113.5	2030.1	1795.0	1731.8	1751.4	1759.2	1799.6	1840.6	1811.9
42.5°	2712.0	2627.4	2493.2	2052.9	1857.5	1867.3	1873.2	1908.3	1966.3	1943.5
45°	3181.6	3151.0	3014.2	2493.2	2092.6	2044.5	2051.6	2069.9	2155.2	2146.7
47.5°	3542.5	3524.9	3419.4	2998.6	2489.9	2261.3	2281.5	2290.0	2413.1	2443.0
50°	3819.9	3813.4	3719.0	3448.0	3009.0	2581.1	2588.3	2570.1	2754.4	2828.6
52.5°	4081.7	4103.9	4034.2	3865.5	3563.3	2999.9	2998.6	2912.6	3161.4	3273.5
55°	4318.2	4326.0	4333.1	4291.5	4120.8	3476.7	3464.3	3323.6	3633.6	3749.6
57.5°	4540.3	4543.5	4607.3	4692.7	4701.1	3988.6	3965.8	3797.1	4149.5	4232.2
60°	4689.4	4704.4	4839.2	5076.3	5179.8	4516.8	4504.4	4332.5	4674.4	4712.9
62.5°	4474.5	4565.7	4905.6	5375.9	5631.8	5102.3	5096.5	4934.9	5226.7	5195.5
65°	3621.9	3776.3	4374.2	5578.4	6075.4	5756.2	5764.7	5592.8	5794.0	5692.4
67.5°	2533.6	2696.4	3403.7	5594.7	6571.0	6524.1	6573.0	6303.3	6396.5	6168.5
70°	1752.0	1836.0	2296.5	5244.3	6957.3	7581.9	7580.6	7176.1	6995.7	6385.4
72.5°	1178.2	1221.9	1491.5	4160.5	6673.3	8210.4	8172.6	7843.0	7197.6	5971.8
75°	496.9	528.9	690.4	2338.2	5279.5	7511.5	7409.3	6931.2	6395.2	4702.4
77.5°	157.6	171.3	272.2	836.9	2908.1	5646.2	5538.1	4328.6	4286.2	2359.0
80°	74.9	87.3	153.1	336.1	1144.3	3070.9	3055.9	1963.7	1843.8	637.0
82.5°	32.6	38.4	84.7	179.8	511.9	1095.5	1117.6	668.2	553.0	241.6
85°	10.4	13.7	39.1	82.7	216.2	272.2	269.0	158.9	222.7	131.6
87.5°	0.0	0.0	13.0	18.9	22.1	15.6	17.6	13.7	61.9	36.5
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°
1045.3	0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
1058.4	2.5°	1050.6	1040.1	1021.9	1005.0	990.0	975.0	965.9	952.9	951.6	951.6
1075.3	5°	1057.7	1040.8	1008.2	973.7	934.0	896.2	858.4	821.9	810.2	801.8
1102.7	7.5°	1078.6	1051.9	1000.4	934.6	859.1	776.4	718.4	655.9	631.8	618.7
1139.1	10°	1108.5	1072.0	993.9	878.6	756.2	643.5	560.8	493.0	467.0	455.9
1178.9	12.5°	1141.7	1096.8	982.2	808.9	643.5	508.7	427.9	396.6	392.7	392.7
1226.4	15°	1181.5	1126.8	962.0	726.9	525.6	402.5	373.8	375.2	379.1	381.7
1272.7	17.5°	1222.5	1158.7	930.1	635.0	421.4	362.1	362.8	364.7	368.0	370.6
1322.8	20°	1266.8	1190.6	887.7	537.3	361.5	350.4	352.4	354.3	356.9	358.2
1369.7	22.5°	1314.3	1220.5	837.6	441.6	341.3	340.6	341.3	343.2	346.5	346.5
1424.4	25°	1365.1	1253.8	780.3	371.9	330.9	330.9	332.2	333.5	336.1	336.1
1477.2	27.5°	1417.2	1284.4	719.7	335.4	321.7	321.1	321.1	323.0	324.4	325.0
1529.3	30°	1474.6	1320.2	659.1	327.6	314.6	311.3	309.4	310.7	312.0	312.6
1584.0	32.5°	1533.2	1354.7	605.1	330.9	307.4	301.6	295.0	293.7	293.7	296.3
1640.6	35°	1598.3	1392.5	563.4	341.9	303.5	287.2	276.8	270.9	271.6	275.5
1708.4	37.5°	1676.5	1438.1	532.8	351.7	300.9	270.9	254.0	246.8	242.3	246.8
1801.5	40°	1778.7	1505.2	510.6	359.5	297.6	252.1	229.3	217.5	209.1	211.7
1946.1	42.5°	1929.2	1610.7	502.2	360.2	290.5	229.9	203.9	188.2	175.9	176.5
2163.6	45°	2140.2	1777.4	545.8	351.7	274.9	205.8	177.2	156.3	148.5	146.5
2488.6	47.5°	2429.4	2020.4	646.7	334.1	252.1	182.4	151.1	133.5	127.7	124.4
2915.2	50°	2816.9	2332.3	758.8	314.6	229.3	160.2	129.6	118.5	114.6	111.4
3421.3	52.5°	3266.3	2648.9	850.6	295.0	206.5	140.7	115.9	109.4	106.2	103.6
3909.8	55°	3678.6	2867.0	845.4	274.2	184.3	125.1	106.2	102.3	98.3	95.7
4330.5	57.5°	3935.2	2897.7	696.9	251.4	158.9	112.7	97.0	94.4	89.9	86.6
4694.6	60°	4053.1	2723.1	488.5	221.4	133.5	101.0	87.3	86.0	80.1	75.6
5039.2	62.5°	4074.6	2398.8	325.7	184.3	111.4	89.9	77.5	75.6	67.7	59.9
5319.2	65°	3987.3	1935.0	225.4	143.9	95.1	78.2	66.4	62.5	54.1	46.2
5385.7	67.5°	3711.1	1358.6	157.0	103.6	80.8	61.9	52.8	51.5	44.9	38.4
5047.0	70°	3205.1	774.4	104.9	77.5	63.8	42.3	41.7	43.0	36.5	31.3
4123.4	72.5°	2457.4	354.3	65.1	56.7	43.6	28.7	33.2	33.9	28.0	23.4
2572.7	75°	1446.6	151.8	41.0	36.5	22.1	18.9	24.1	24.7	18.9	15.0
940.5	77.5°	492.4	57.3	26.1	21.5	11.1	10.4	15.6	15.6	10.4	5.9
188.9	80°	112.0	21.5	13.0	8.5	5.2	4.6	5.2	4.6	2.6	0.7
58.0	82.5°	31.9	8.5	5.2	3.3	2.0	2.0	0.7	0.0	0.0	0.0
20.2	85°	9.1	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	3.9	0.7	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°
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1045.3
954.8
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