

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: P946737

Luminaire Tested: **GALN-SB2B-750-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946737  
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-SB2B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

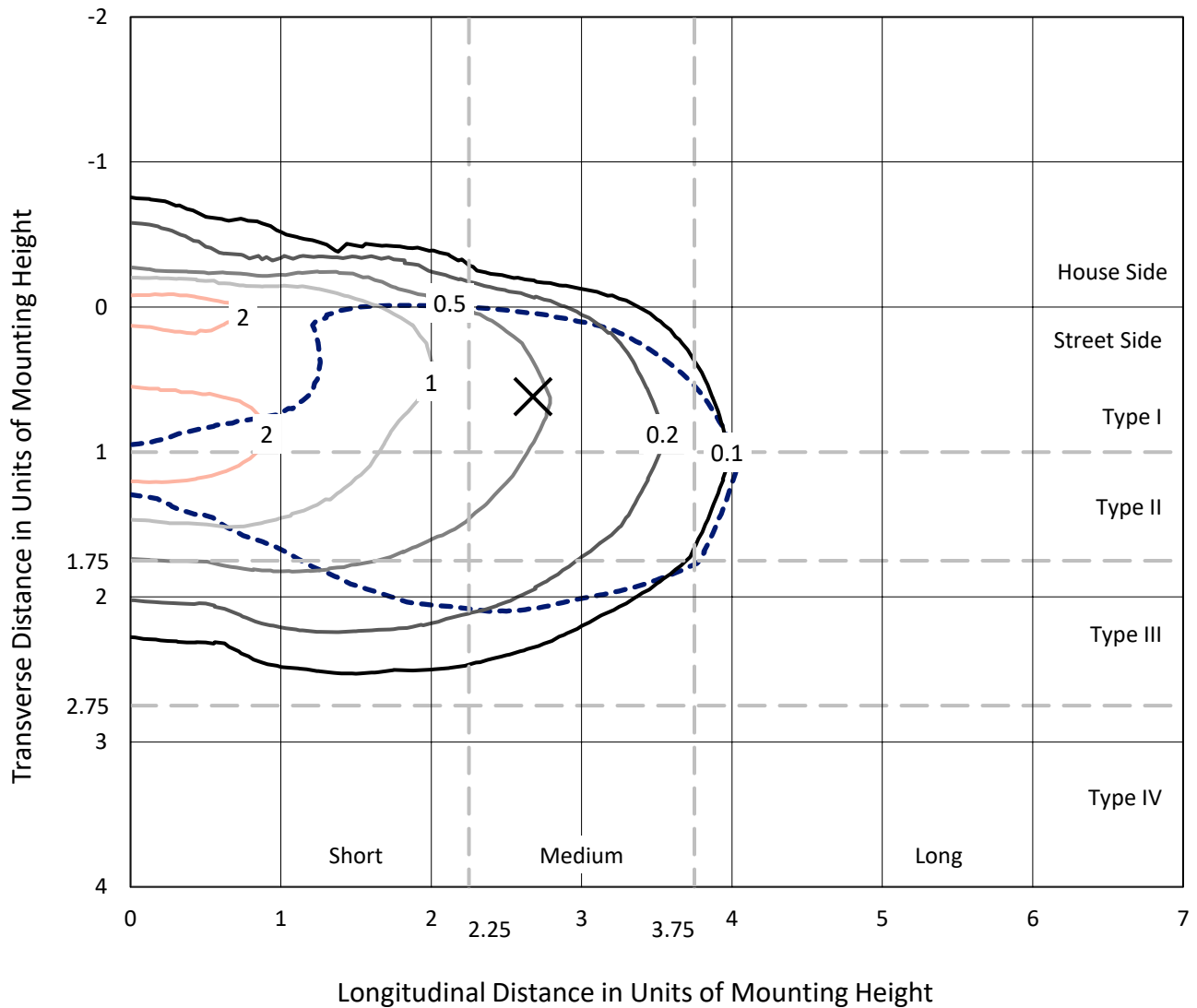
Lumens per Lamp: N/A  
Luminaire Lumens: 9919 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

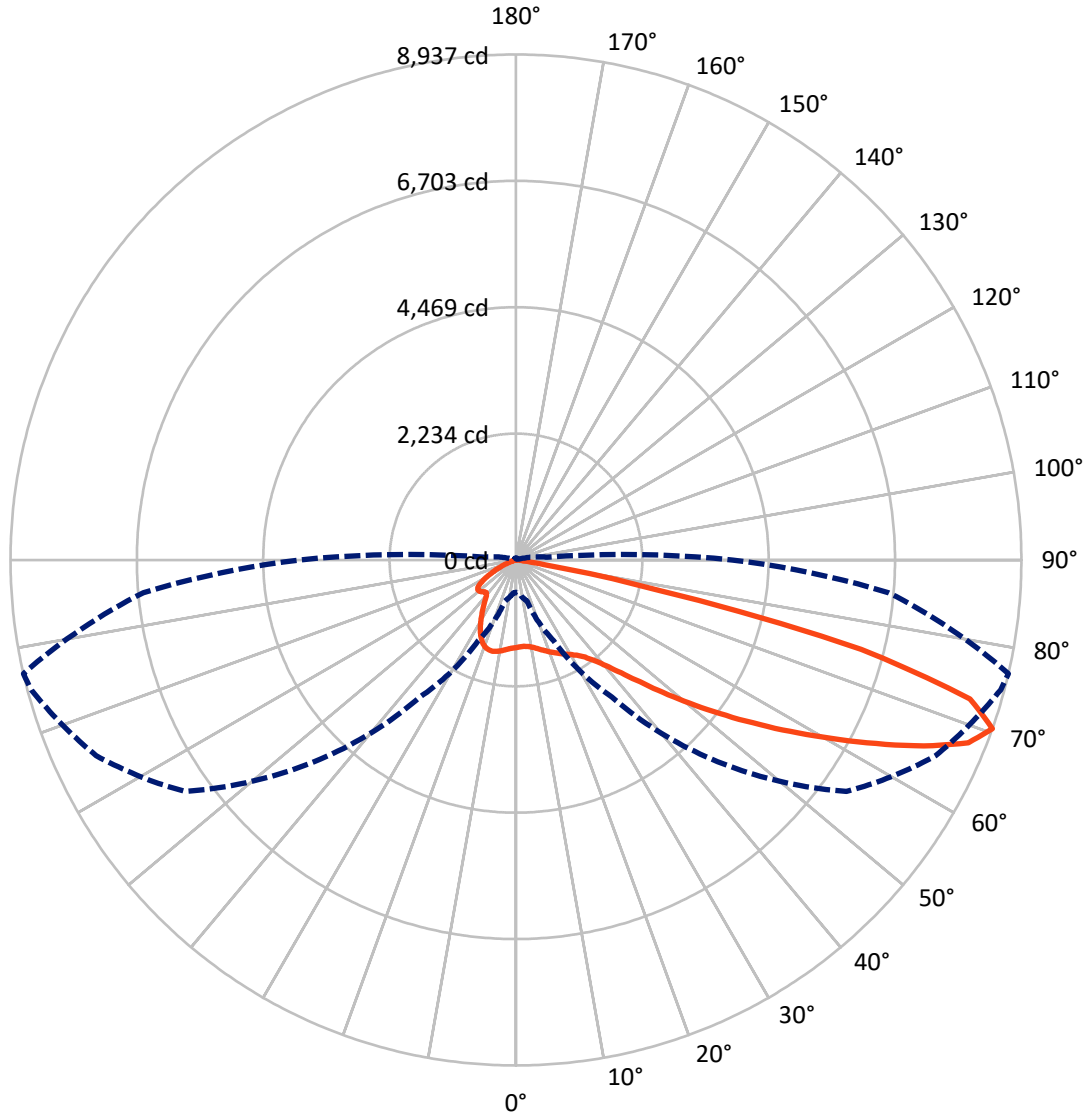
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1045.6	0.0	1045.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8873.4	0.0	8873.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9919.0	0.0	9919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	1.3
10°-20°	316.5	3.2
20°-30°	489.6	4.9
30°-40°	888.4	9.0
40°-50°	1677.0	16.9
50°-60°	2423.1	24.4
60°-70°	2579.3	26.0
70°-80°	1366.9	13.8
80°-90°	44.9	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°	9919.0	100.0
0°-180°	9919.0	100.0

**Coefficient of Utilization**



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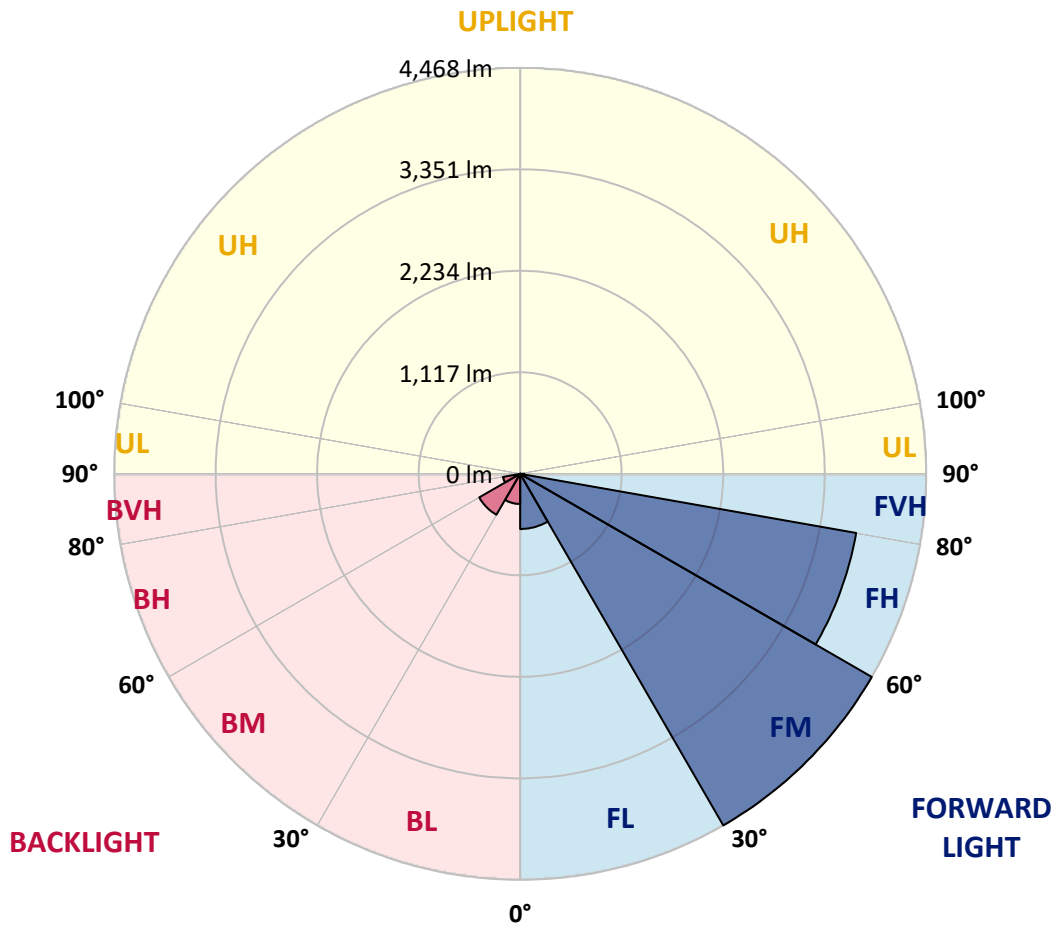
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.3	6.1			
FM (30°-60°)	4468.0	45.0			
FH (60°-80°)	3754.5	37.9			G2/5000
FVH (80°-90°)	43.7	0.4			G1/100
BL (0°-30°)	332.2	3.3	B1/500		
BM (30°-60°)	520.5	5.2	B1/1000		
BH (60°-80°)	191.7	1.9	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2
2.5°	1452.6	1465.8	1463.9	1472.6	1475.8	1488.3	1500.8	1517.7	1536.5	1535.9
5°	1370.5	1383.7	1386.8	1398.7	1413.8	1433.2	1458.9	1492.7	1527.8	1533.4
7.5°	1273.5	1287.2	1295.4	1319.2	1346.7	1386.8	1428.8	1478.3	1536.5	1544.7
10°	1176.4	1188.9	1199.5	1233.4	1277.2	1336.7	1405.0	1476.4	1554.7	1566.6
12.5°	1116.2	1128.1	1140.0	1169.5	1224.0	1296.6	1389.3	1485.2	1584.8	1601.7
15°	1094.9	1105.6	1115.0	1141.3	1192.0	1274.7	1386.2	1503.3	1623.0	1645.5
17.5°	1098.1	1103.7	1110.0	1130.0	1179.5	1264.7	1391.8	1534.7	1668.1	1688.1
20°	1116.2	1119.4	1120.0	1133.8	1177.6	1263.4	1403.1	1564.7	1710.7	1737.6
22.5°	1139.4	1140.7	1139.4	1148.8	1189.5	1272.8	1418.1	1601.1	1758.3	1783.3
25°	1247.8	1224.0	1193.9	1175.7	1209.6	1291.0	1440.7	1649.9	1810.3	1834.7
27.5°	1584.1	1515.9	1408.1	1287.2	1250.9	1317.3	1472.0	1699.4	1862.9	1884.8
30°	2130.4	2040.8	1857.9	1585.4	1383.7	1372.4	1512.7	1748.9	1918.6	1942.4
32.5°	2677.8	2655.9	2444.8	2067.7	1682.5	1495.2	1580.4	1815.9	1992.5	2011.3
35°	3231.5	3187.1	3014.2	2641.5	2142.9	1745.1	1693.1	1903.6	2089.6	2110.9
37.5°	3655.6	3628.7	3521.6	3214.6	2689.1	2131.0	1886.1	2039.5	2230.6	2254.4
40°	4030.2	4017.7	3981.3	3779.0	3299.8	2635.9	2186.1	2250.0	2426.0	2454.2
42.5°	4324.6	4354.0	4374.7	4318.3	3929.3	3212.1	2589.5	2545.7	2698.5	2727.3
45°	4625.9	4635.9	4719.2	4800.7	4554.5	3814.7	3044.3	2892.0	3037.4	3073.1
47.5°	4819.4	4859.5	5006.1	5149.6	5080.0	4412.3	3532.8	3301.1	3430.1	3497.1
50°	4833.9	4909.6	5111.3	5361.3	5462.8	4981.1	4064.0	3767.1	3904.3	3978.2
52.5°	4593.9	4711.7	5024.3	5390.1	5669.5	5462.8	4613.4	4233.1	4409.2	4505.6
55°	3522.2	3676.3	4696.7	5233.5	5677.6	5827.9	5148.3	4718.6	4971.7	5080.7
57.5°	3068.7	3146.4	3692.6	4961.6	5526.6	5975.1	5631.9	5180.9	5583.6	5718.9
60°	2553.2	2655.3	3096.9	4516.9	5321.8	5989.5	6059.1	5777.2	6247.0	6399.2
62.5°	1735.1	1846.0	2285.1	3752.7	5041.8	5982.7	6409.2	6391.1	6984.3	7147.7
65°	1074.9	1144.4	1433.8	3064.3	4650.3	5990.2	6775.7	7136.5	7762.2	7928.2
67.5°	849.4	881.3	1032.3	2352.7	3975.7	5821.0	7141.5	7837.4	8494.5	8626.0
70°	570.6	590.1	751.0	1577.3	2957.8	5040.6	7134.6	8189.4	8871.6	8937.3
72.5°	300.7	315.7	439.1	730.4	1786.5	3583.0	6014.0	7768.5	8496.4	8397.4
75°	150.3	175.4	295.7	370.8	762.9	1998.2	3734.5	6124.8	6687.3	6304.0
77.5°	114.0	137.8	244.3	244.3	265.6	672.7	1581.6	3340.5	3081.2	2565.7
80°	72.7	94.0	213.6	184.8	110.9	171.0	412.2	935.8	654.6	498.0
82.5°	42.6	61.4	177.9	122.1	62.0	63.3	116.5	199.2	169.8	132.2
85°	16.9	40.1	122.1	48.2	24.4	15.7	35.1	42.6	35.1	26.3
87.5°	0.0	9.4	21.3	0.0	1.9	1.3	2.5	3.1	3.1	2.5
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°
1547.2	0°	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2	1547.2
1548.4	2.5°	1554.1	1555.3	1559.1	1559.7	1550.9	1539.7	1535.3	1533.4	1525.9	1525.3
1558.5	5°	1572.9	1578.5	1572.9	1556.6	1517.7	1463.2	1421.9	1388.1	1357.4	1348.0
1592.9	7.5°	1610.5	1616.1	1599.2	1535.3	1437.6	1329.2	1231.5	1162.6	1100.6	1077.4
1634.9	10°	1664.3	1671.8	1618.6	1489.6	1316.7	1142.5	977.2	860.7	769.8	732.9
1691.9	12.5°	1732.0	1735.1	1629.2	1420.0	1159.4	910.8	676.5	551.9	471.0	441.0
1760.8	15°	1806.5	1802.1	1630.5	1325.4	945.2	643.9	441.6	362.7	330.1	320.1
1829.7	17.5°	1884.8	1866.6	1605.4	1188.9	710.3	440.4	327.6	308.8	303.2	300.7
1898.0	20°	1961.9	1921.1	1559.7	1010.4	509.9	328.9	297.5	291.9	288.8	287.5
1966.9	22.5°	2032.0	1962.5	1481.4	803.0	370.2	290.6	281.2	276.2	270.6	268.1
2033.9	25°	2100.3	1986.3	1371.2	609.5	296.3	271.9	264.3	254.9	247.4	244.3
2105.9	27.5°	2166.7	2001.3	1233.4	451.0	264.3	254.3	240.5	227.4	221.7	220.5
2183.0	30°	2237.5	2006.3	1076.8	336.4	244.9	232.4	212.3	197.3	194.2	194.8
2287.0	32.5°	2323.9	2013.8	918.9	275.6	228.6	206.1	182.3	166.6	164.1	166.6
2438.5	35°	2427.3	2028.9	766.7	253.7	214.2	179.1	153.5	140.3	137.8	139.7
2632.7	37.5°	2567.6	2053.3	624.5	249.3	202.3	156.6	129.0	118.4	118.4	119.0
2870.7	40°	2754.2	2118.5	497.4	246.2	196.1	139.7	109.0	104.6	106.5	107.7
3173.9	42.5°	2981.6	2256.9	411.5	242.4	189.2	132.2	99.0	97.1	100.2	101.5
3537.2	45°	3236.6	2432.3	381.5	236.1	182.9	137.2	94.6	92.1	95.8	96.5
3944.4	47.5°	3500.3	2603.9	377.7	229.3	176.6	144.7	93.3	87.7	92.1	92.7
4379.1	50°	3767.1	2716.0	381.5	218.6	166.6	144.7	94.0	83.3	87.1	88.9
4830.1	52.5°	4035.8	2767.4	379.0	195.4	149.1	135.9	94.0	79.6	83.3	84.6
5317.4	55°	4296.4	2757.4	340.8	161.0	126.5	120.3	91.5	76.4	78.9	79.6
5777.8	57.5°	4502.5	2617.7	270.0	125.3	102.7	100.2	83.3	72.7	74.5	73.9
6200.0	60°	4610.2	2310.8	192.9	96.5	80.8	78.9	73.3	67.7	68.9	65.8
6557.7	62.5°	4611.5	1904.9	129.0	76.4	64.5	62.6	62.6	60.8	59.5	53.2
6834.5	65°	4513.1	1454.5	85.8	60.8	52.0	48.9	52.6	52.0	47.6	38.8
6919.1	67.5°	4290.1	953.4	65.1	47.6	40.1	38.2	42.0	43.8	40.7	32.6
6610.9	70°	3831.6	555.0	53.9	37.0	30.1	28.2	33.8	37.6	33.8	26.3
5650.7	72.5°	3182.7	299.4	43.8	27.6	20.7	18.8	26.9	30.7	26.9	19.4
3625.5	75°	2065.2	160.4	33.8	18.2	10.6	11.9	20.0	22.6	18.8	12.5
1064.2	77.5°	693.4	70.8	21.3	8.8	5.0	5.0	11.9	13.8	8.8	4.4
193.6	80°	154.7	29.4	8.8	3.8	1.9	1.9	2.5	2.5	1.3	0.0
59.5	82.5°	50.7	11.9	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
15.0	85°	19.4	4.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	7.5	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°
1547.2
1526.5
1342.4
1068.0
717.2
431.6
320.1
300.0
286.3
267.5
243.0
219.2
194.8
166.0
139.1
118.4
107.7
101.5
97.1
93.3
89.6
84.6
79.6
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