

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: P945843

Luminaire Tested: **GALN-SB1C-935-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-935-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

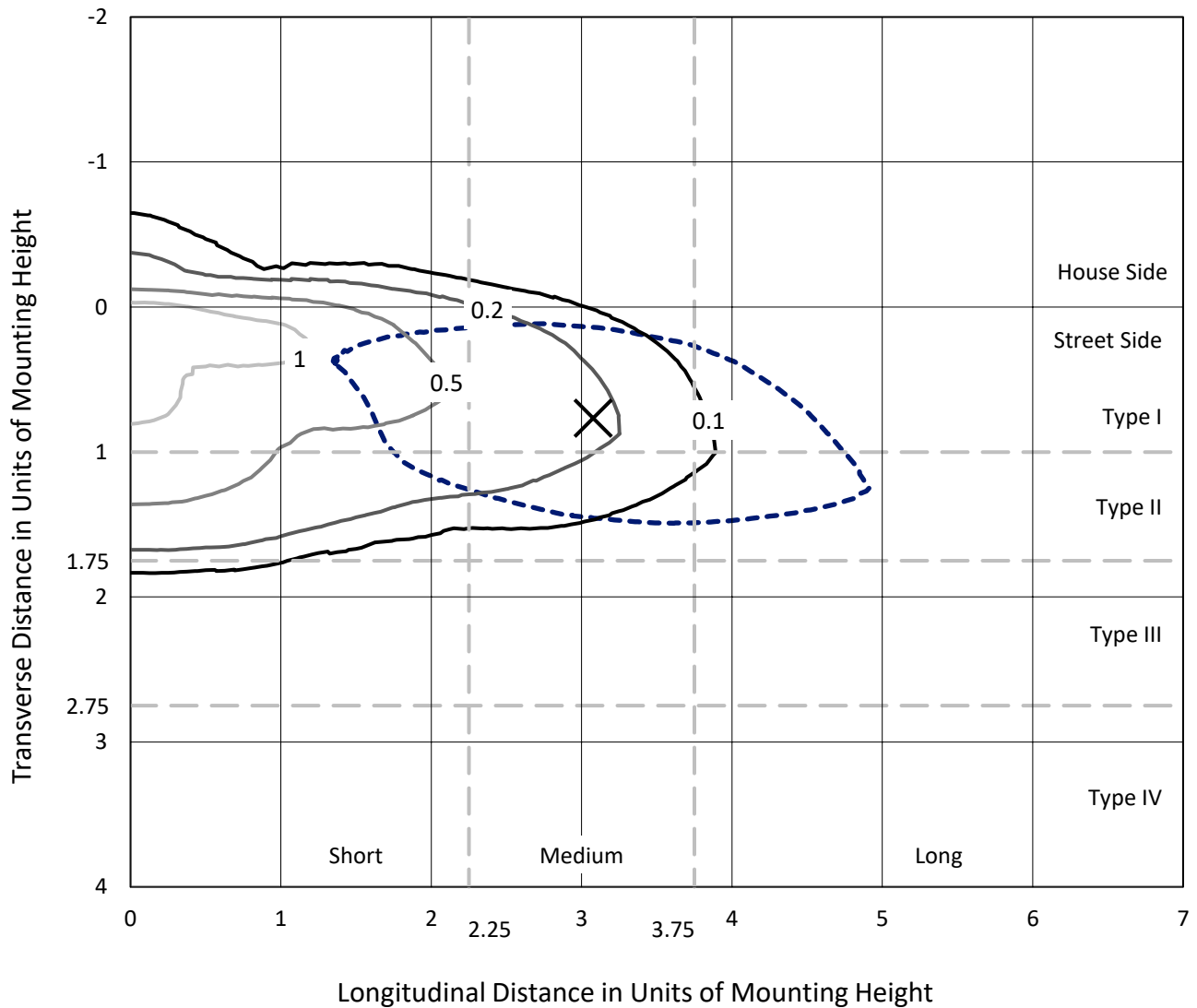
Lumens per Lamp: N/A  
Luminaire Lumens: 4224 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

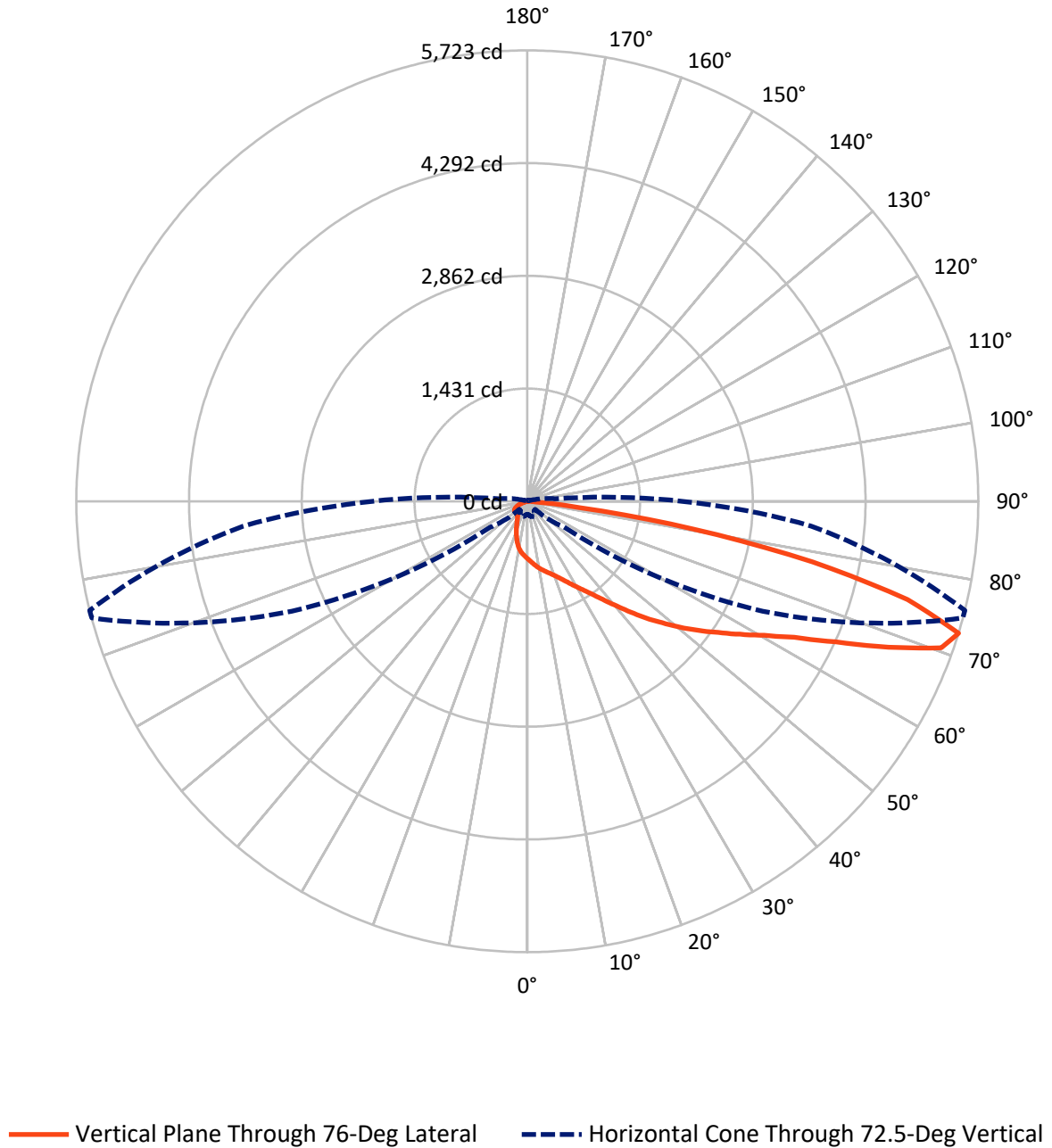
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	432.3	0.0	432.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	3791.7	0.0	3791.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	4224.0	0.0	4224.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.4	1.6
10°-20°	178.0	4.2
20°-30°	281.7	6.7
30°-40°	435.9	10.3
40°-50°	662.0	15.7
50°-60°	912.7	21.6
60°-70°	964.2	22.8
70°-80°	661.5	15.7
80°-90°	61.6	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°	4224.0	100.0
0°-180°	4224.0	100.0

**Coefficient of Utilization**



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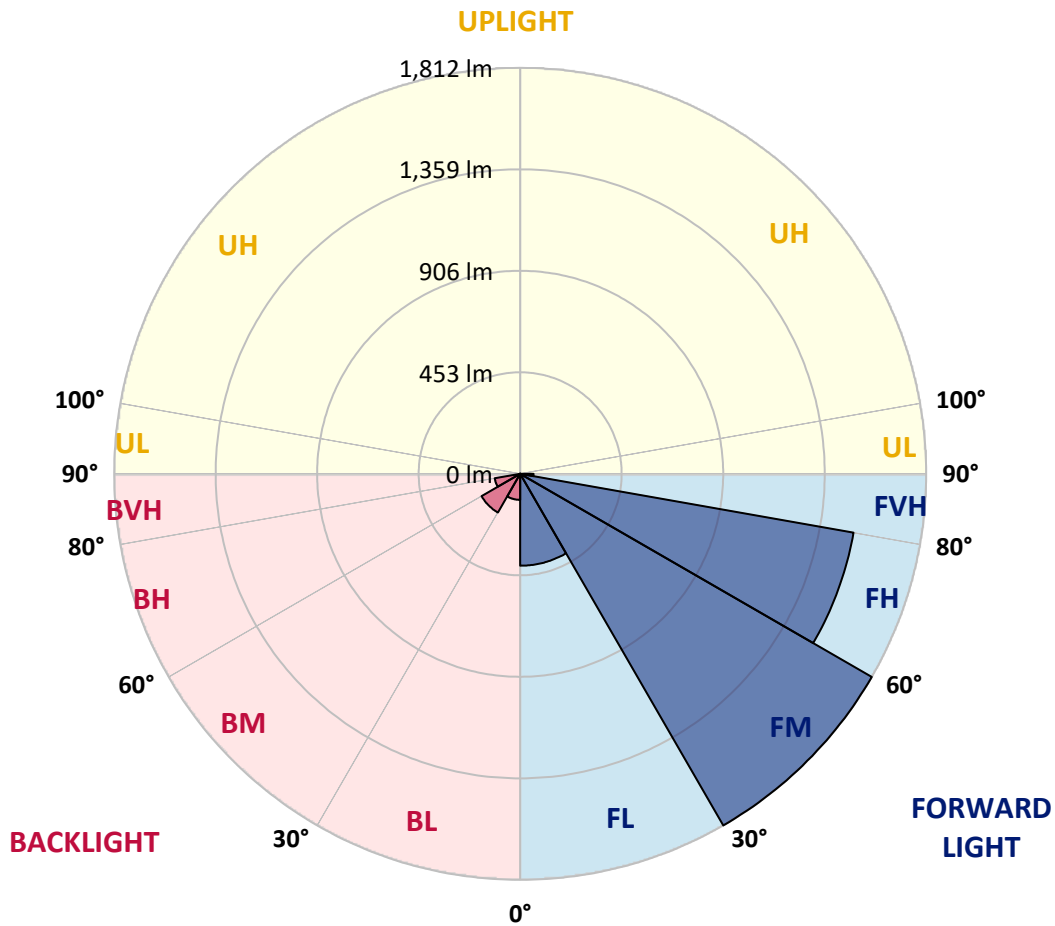
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.9	9.7			
FM (30°-60°)	1811.6	42.9			
FH (60°-80°)	1510.3	35.8			G1/1800
FVH (80°-90°)	59.9	1.4			G1/100
BL (0°-30°)	116.2	2.8	B1/500		
BM (30°-60°)	199.0	4.7	B0/220		
BH (60°-80°)	115.4	2.7	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9
2.5°	848.6	837.4	839.5	828.3	823.1	810.5	797.3	780.1	760.9	760.9
5°	937.9	930.8	930.8	917.6	907.5	887.8	864.2	833.8	797.6	794.1
7.5°	992.7	988.3	991.1	983.4	975.2	954.6	926.7	886.9	835.7	831.3
10°	1003.4	1003.1	1010.8	1013.0	1018.5	1008.1	983.1	937.4	873.2	866.9
12.5°	962.0	956.8	975.7	997.9	1029.2	1043.1	1030.3	983.4	907.5	898.7
15°	894.1	895.2	913.3	947.5	999.6	1049.4	1066.1	1028.3	942.3	931.9
17.5°	855.2	851.1	866.7	897.4	954.9	1025.3	1082.9	1070.3	979.3	967.5
20°	850.5	850.2	853.8	867.8	911.6	990.8	1080.9	1111.1	1022.9	1009.2
22.5°	882.8	882.3	879.3	876.5	888.6	957.1	1072.7	1150.0	1074.9	1060.1
25°	932.4	931.6	927.0	910.2	898.5	939.0	1065.0	1186.2	1136.6	1120.1
27.5°	993.0	992.4	983.9	958.7	928.3	940.7	1061.2	1223.4	1207.8	1191.6
30°	1067.2	1066.1	1048.6	1013.0	973.3	966.7	1066.4	1265.3	1282.1	1269.7
32.5°	1160.4	1157.4	1134.4	1080.7	1025.0	1001.5	1076.3	1308.4	1370.0	1358.5
35°	1232.5	1227.8	1214.4	1167.0	1085.1	1044.2	1099.3	1359.3	1475.8	1465.6
37.5°	1294.4	1289.7	1278.8	1239.9	1171.1	1098.8	1136.3	1427.3	1600.7	1595.8
40°	1361.2	1353.6	1348.4	1306.7	1244.5	1177.4	1189.2	1506.7	1744.6	1745.1
42.5°	1412.8	1409.7	1410.3	1378.2	1315.5	1270.6	1259.3	1596.3	1916.9	1922.1
45°	1456.9	1454.4	1464.5	1442.1	1387.0	1331.7	1341.5	1697.7	2105.4	2116.1
47.5°	1490.9	1493.6	1508.1	1493.6	1461.3	1374.7	1414.4	1807.0	2303.5	2304.9
50°	1524.8	1525.9	1550.0	1542.9	1529.8	1429.2	1481.5	1929.3	2512.3	2514.8
52.5°	1535.5	1533.9	1572.2	1589.8	1590.3	1496.6	1568.4	2062.4	2717.0	2725.0
55°	1480.7	1485.4	1547.3	1618.5	1646.8	1589.8	1685.7	2230.9	2935.1	2938.4
57.5°	1212.7	1238.5	1375.5	1540.7	1683.2	1723.2	1854.2	2427.9	3186.9	3183.9
60°	736.0	766.7	930.5	1292.2	1564.3	1857.2	2102.4	2733.2	3462.0	3453.5
62.5°	411.6	420.9	473.2	773.5	1189.7	1772.0	2344.9	3125.3	3831.4	3802.6
65°	303.3	306.3	318.7	378.9	584.7	1362.9	2291.8	3594.1	4350.3	4299.1
67.5°	263.6	266.6	278.7	286.9	261.1	716.0	1888.2	3854.1	5009.3	4942.2
70°	221.9	223.6	243.0	248.5	186.9	272.4	1213.0	3773.8	5619.3	5571.3
72.5°	165.5	172.1	200.3	213.4	149.9	144.7	571.0	3299.5	5722.6	5723.1
75°	112.3	118.4	150.7	175.6	115.6	101.4	230.4	2463.8	4983.0	4983.0
77.5°	76.7	81.7	104.9	137.8	87.7	69.6	119.5	1563.7	3574.9	3700.7
80°	34.0	37.0	67.7	100.0	66.6	44.9	67.7	856.3	2161.9	2135.3
82.5°	16.7	19.2	43.3	62.5	43.0	27.7	35.6	407.2	700.6	665.8
85°	3.3	4.4	23.3	26.6	20.0	12.3	13.4	125.2	84.4	96.4
87.5°	0.0	0.0	7.1	4.9	2.2	2.7	2.7	11.2	6.6	7.7
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°
729.9	0°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9
742.3	2.5°	732.4	722.3	700.1	678.2	655.7	635.1	620.9	606.6	597.9	594.0
758.7	5°	738.2	717.6	671.0	622.3	574.0	526.9	491.6	458.4	448.0	430.7
778.2	7.5°	747.2	713.8	640.3	558.1	479.8	410.7	360.9	321.1	305.2	289.9
794.9	10°	753.2	706.7	599.8	489.9	383.9	306.3	258.7	229.9	219.5	210.2
810.5	12.5°	755.7	693.5	553.2	413.5	298.7	233.5	205.0	191.5	188.0	184.7
825.3	15°	757.9	680.6	501.2	339.8	235.9	195.4	184.1	179.7	177.3	175.1
840.4	17.5°	759.8	664.2	441.7	276.2	199.2	180.0	174.5	169.9	168.0	165.5
862.0	20°	766.4	648.3	388.5	228.0	179.2	169.1	163.0	158.1	156.5	154.8
892.7	22.5°	778.7	635.4	337.0	195.4	167.1	157.8	150.2	144.7	143.6	142.5
930.0	25°	793.5	619.5	288.5	174.3	155.4	144.9	136.5	131.8	130.7	131.0
973.0	27.5°	812.4	602.0	246.9	160.8	144.9	132.9	123.3	119.7	120.3	121.4
1022.6	30°	833.2	585.8	214.3	151.5	135.6	122.2	112.6	110.1	112.1	113.7
1088.9	32.5°	864.2	571.6	191.5	144.1	127.4	113.4	105.8	102.8	104.9	107.1
1173.6	35°	906.4	564.4	178.6	137.8	120.3	106.6	98.9	96.7	98.9	99.5
1276.9	37.5°	958.2	563.9	173.2	132.6	113.7	100.8	92.3	91.5	93.2	93.4
1401.0	40°	1025.0	567.5	169.1	128.8	106.9	94.3	86.3	85.5	86.0	88.0
1550.3	42.5°	1109.7	582.3	163.3	123.8	99.5	87.7	81.4	79.5	79.2	81.4
1717.5	45°	1216.0	614.9	155.6	115.9	92.9	82.2	75.9	73.7	72.9	73.4
1890.1	47.5°	1331.9	654.9	148.0	108.5	88.2	77.8	71.5	68.8	67.4	67.4
2051.5	50°	1444.3	700.1	142.8	100.8	84.9	73.7	66.9	64.1	61.9	61.4
2217.5	52.5°	1555.5	744.5	138.6	93.2	81.1	68.5	62.5	59.5	57.0	55.9
2381.9	55°	1656.9	786.7	131.5	85.8	76.2	63.0	58.1	55.1	52.1	50.1
2548.5	57.5°	1754.2	821.7	118.4	78.1	68.5	57.8	53.4	50.1	46.6	44.1
2717.0	60°	1842.7	839.8	101.9	69.9	60.8	52.3	48.2	45.2	40.6	36.4
2882.8	62.5°	1910.1	832.7	84.1	60.6	52.9	47.4	42.2	39.2	33.7	28.8
3081.4	65°	1979.1	793.8	67.1	50.7	46.3	40.8	35.3	32.3	26.0	20.8
3350.2	67.5°	2068.7	710.8	52.9	42.2	40.0	32.3	27.7	25.8	21.4	16.4
3638.8	70°	2126.3	552.1	41.1	34.3	32.9	23.6	21.4	21.1	17.0	12.6
3619.3	72.5°	1968.4	362.0	31.5	26.0	23.6	15.3	16.4	16.4	12.3	8.5
3172.7	75°	1643.2	211.8	22.7	18.6	13.4	9.9	11.2	11.2	7.7	4.1
2261.3	77.5°	1173.6	112.9	15.1	11.5	6.9	4.4	6.0	5.8	2.5	0.3
886.4	80°	448.8	38.9	7.1	4.7	1.9	0.8	0.5	0.3	0.3	0.0
138.4	82.5°	68.5	10.1	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
29.3	85°	12.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	2.7	0.0	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

<u>180°</u>
729.9
594.6
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130.4
120.8
113.2
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