

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: P945045

Luminaire Tested: **GALN-SB1A-840-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945045  
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-SB1A-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

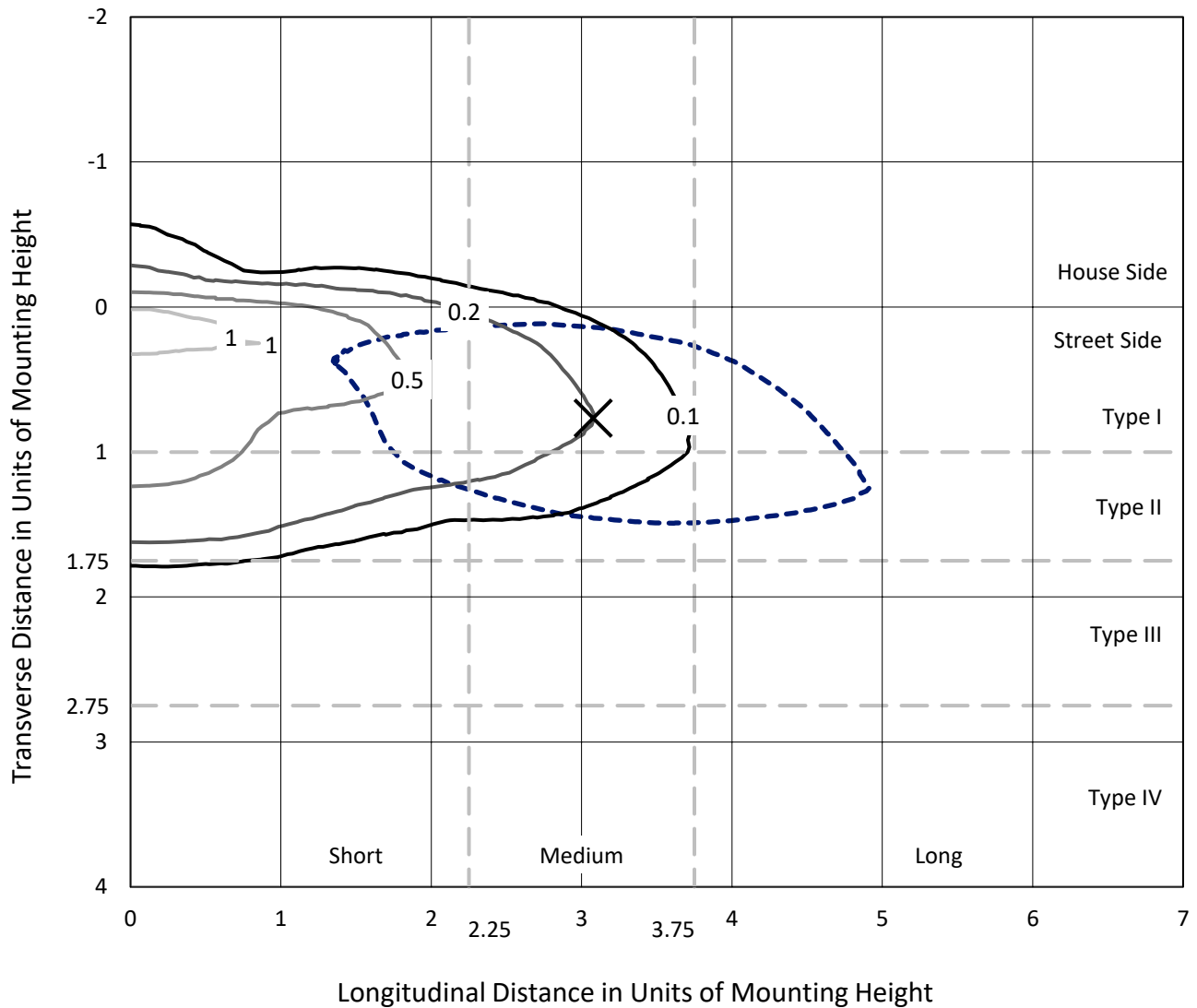
Lumens per Lamp: N/A  
Luminaire Lumens: 3479 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

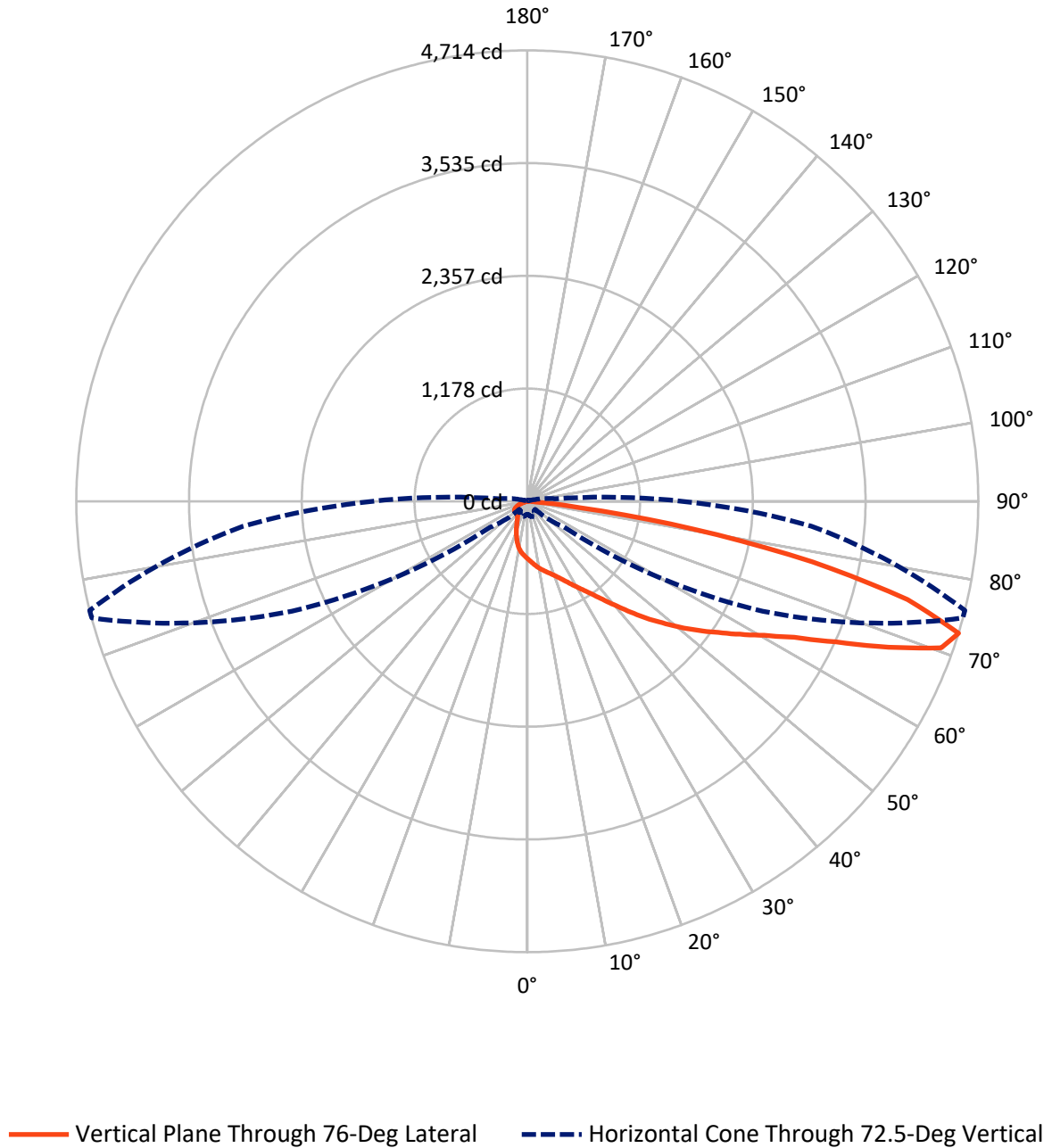
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	356.1	0.0	356.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	3122.9	0.0	3122.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	3479.0	0.0	3479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	1.6
10°-20°	146.6	4.2
20°-30°	232.0	6.7
30°-40°	359.0	10.3
40°-50°	545.3	15.7
50°-60°	751.7	21.6
60°-70°	794.1	22.8
70°-80°	544.8	15.7
80°-90°	50.7	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°	3479.0	100.0
0°-180°	3479.0	100.0

**Coefficient of Utilization**

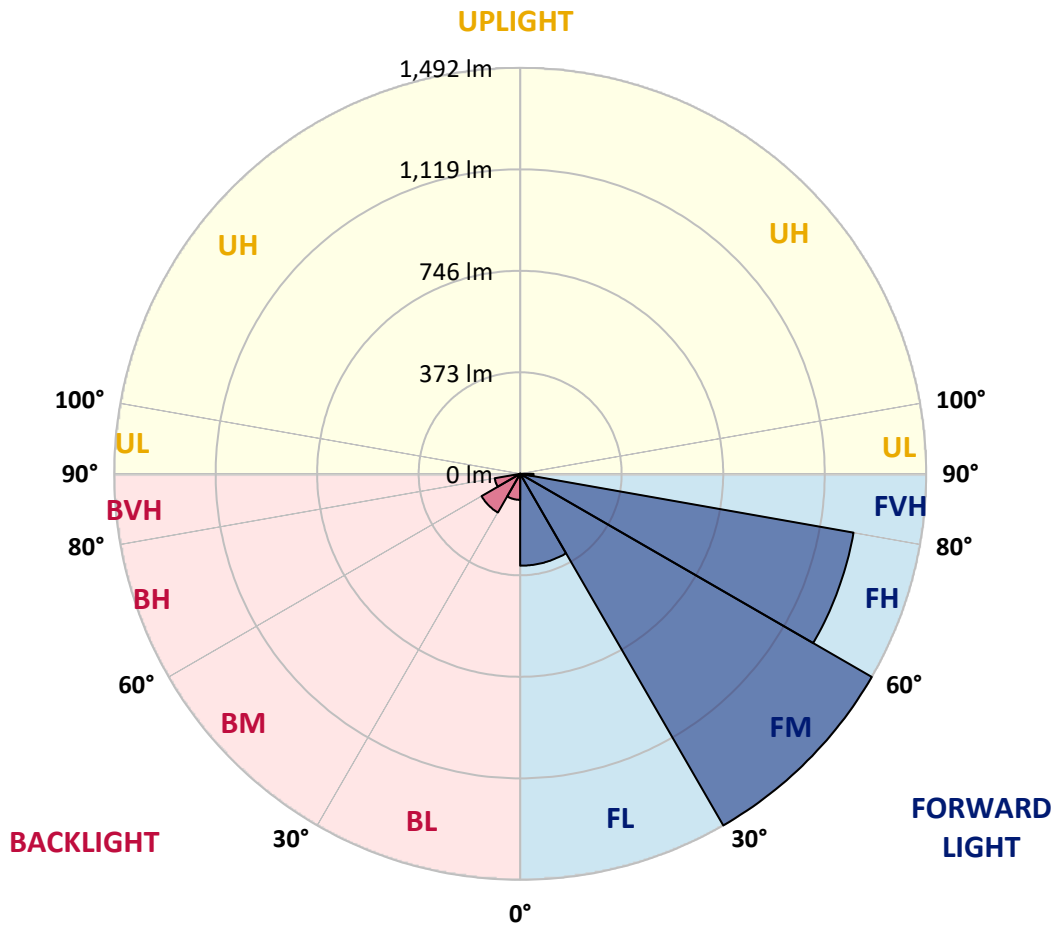


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.6	9.7			
FM (30°-60°)	1492.1	42.9			
FH (60°-80°)	1243.9	35.8			G1/1800
FVH (80°-90°)	49.3	1.4			G1/100
BL (0°-30°)	95.7	2.8	B0/110		
BM (30°-60°)	163.9	4.7	B0/220		
BH (60°-80°)	95.1	2.7	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	698.9	689.7	691.5	682.2	677.9	667.6	656.7	642.5	626.7	626.7
5°	772.5	766.6	766.6	755.8	747.4	731.2	711.8	686.7	656.9	654.0
7.5°	817.6	814.0	816.3	810.0	803.2	786.3	763.2	730.5	688.3	684.7
10°	826.4	826.2	832.5	834.3	838.8	830.3	809.7	772.0	719.2	714.0
12.5°	792.3	788.1	803.6	821.9	847.6	859.1	848.5	810.0	747.4	740.2
15°	736.4	737.3	752.2	780.4	823.3	864.3	878.1	847.0	776.1	767.5
17.5°	704.3	701.0	713.8	739.1	786.5	844.5	891.9	881.5	806.6	796.9
20°	700.5	700.3	703.2	714.7	750.8	816.0	890.3	915.1	842.4	831.2
22.5°	727.1	726.7	724.2	721.9	731.9	788.3	883.5	947.2	885.3	873.1
25°	768.0	767.3	763.5	749.7	740.0	773.4	877.2	977.0	936.1	922.6
27.5°	817.9	817.4	810.4	789.6	764.6	774.7	874.0	1007.6	994.8	981.5
30°	879.0	878.1	863.7	834.3	801.6	796.2	878.3	1042.2	1055.9	1045.8
32.5°	955.7	953.3	934.3	890.1	844.3	824.8	886.5	1077.6	1128.4	1118.9
35°	1015.1	1011.3	1000.2	961.2	893.7	860.1	905.4	1119.6	1215.5	1207.1
37.5°	1066.1	1062.3	1053.2	1021.2	964.5	905.0	935.9	1175.5	1318.4	1314.3
40°	1121.2	1114.8	1110.6	1076.2	1025.0	969.7	979.4	1241.0	1436.9	1437.3
42.5°	1163.6	1161.1	1161.6	1135.2	1083.5	1046.5	1037.2	1314.8	1578.8	1583.1
45°	1199.9	1197.9	1206.2	1187.7	1142.4	1096.8	1104.9	1398.3	1734.1	1742.9
47.5°	1227.9	1230.2	1242.1	1230.2	1203.5	1132.2	1164.9	1488.3	1897.3	1898.4
50°	1255.9	1256.8	1276.7	1270.8	1260.0	1177.1	1220.2	1589.0	2069.2	2071.3
52.5°	1264.7	1263.3	1294.9	1309.4	1309.8	1232.6	1291.8	1698.7	2237.8	2244.4
55°	1219.6	1223.4	1274.4	1333.1	1356.3	1309.4	1388.4	1837.5	2417.4	2420.2
57.5°	998.8	1020.1	1132.9	1269.0	1386.3	1419.3	1527.2	1999.7	2624.8	2622.4
60°	606.2	631.4	766.4	1064.3	1288.4	1529.6	1731.6	2251.1	2851.4	2844.4
62.5°	339.0	346.6	389.7	637.1	979.9	1459.4	1931.3	2574.1	3155.6	3131.9
65°	249.8	252.3	262.5	312.1	481.6	1122.5	1887.6	2960.2	3583.1	3540.9
67.5°	217.1	219.6	229.5	236.3	215.1	589.7	1555.1	3174.4	4125.8	4070.5
70°	182.8	184.2	200.2	204.7	153.9	224.3	999.1	3108.2	4628.2	4588.7
72.5°	136.3	141.7	165.0	175.8	123.4	119.2	470.3	2717.6	4713.2	4713.7
75°	92.5	97.5	124.1	144.7	95.2	83.5	189.8	2029.3	4104.1	4104.1
77.5°	63.2	67.3	86.4	113.5	72.2	57.3	98.4	1287.9	2944.4	3048.0
80°	28.0	30.5	55.7	82.4	54.8	37.0	55.7	705.2	1780.6	1758.7
82.5°	13.8	15.8	35.7	51.5	35.4	22.8	29.3	335.4	577.1	548.4
85°	2.7	3.6	19.2	21.9	16.5	10.2	11.1	103.1	69.5	79.4
87.5°	0.0	0.0	5.9	4.1	1.8	2.3	2.3	9.3	5.4	6.3
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°
601.2	0°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
611.4	2.5°	603.2	594.9	576.6	558.5	540.0	523.1	511.4	499.6	492.4	489.3
624.9	5°	608.0	591.0	552.7	512.5	472.8	434.0	404.9	377.6	369.0	354.8
640.9	7.5°	615.4	587.9	527.4	459.7	395.2	338.3	297.2	264.5	251.4	238.8
654.7	10°	620.4	582.0	494.0	403.5	316.2	252.3	213.0	189.3	180.8	173.1
667.6	12.5°	622.4	571.2	455.6	340.5	246.0	192.3	168.8	157.7	154.8	152.1
679.7	15°	624.2	560.6	412.8	279.8	194.3	160.9	151.7	148.0	146.0	144.2
692.1	17.5°	625.8	547.0	363.8	227.5	164.1	148.3	143.8	139.9	138.3	136.3
710.0	20°	631.2	533.9	320.0	187.8	147.6	139.2	134.3	130.2	128.9	127.5
735.3	22.5°	641.4	523.3	277.6	160.9	137.7	130.0	123.7	119.2	118.3	117.4
765.9	25°	653.6	510.3	237.6	143.5	128.0	119.4	112.4	108.6	107.6	107.9
801.4	27.5°	669.1	495.8	203.3	132.5	119.4	109.5	101.6	98.6	99.1	100.0
842.2	30°	686.3	482.5	176.5	124.8	111.7	100.7	92.8	90.7	92.3	93.7
896.8	32.5°	711.8	470.8	157.7	118.7	104.9	93.4	87.1	84.6	86.4	88.2
966.6	35°	746.5	464.9	147.1	113.5	99.1	87.8	81.5	79.7	81.5	81.9
1051.7	37.5°	789.2	464.4	142.6	109.2	93.7	83.0	76.1	75.4	76.7	77.0
1153.9	40°	844.3	467.4	139.2	106.1	88.0	77.6	71.1	70.4	70.9	72.4
1276.9	42.5°	914.0	479.6	134.5	102.0	81.9	72.2	67.0	65.4	65.2	67.0
1414.5	45°	1001.6	506.4	128.2	95.5	76.5	67.7	62.5	60.7	60.0	60.5
1556.7	47.5°	1097.0	539.4	121.9	89.4	72.7	64.1	58.9	56.6	55.5	55.5
1689.6	50°	1189.5	576.6	117.6	83.0	70.0	60.7	55.1	52.8	51.0	50.6
1826.4	52.5°	1281.2	613.2	114.2	76.7	66.8	56.4	51.5	49.0	46.9	46.0
1961.8	55°	1364.7	647.9	108.3	70.6	62.7	51.9	47.8	45.4	42.9	41.3
2099.0	57.5°	1444.8	676.8	97.5	64.3	56.4	47.6	44.0	41.3	38.4	36.3
2237.8	60°	1517.7	691.7	84.0	57.5	50.1	43.1	39.7	37.2	33.4	30.0
2374.3	62.5°	1573.2	685.8	69.3	49.9	43.6	39.0	34.8	32.3	27.8	23.7
2538.0	65°	1630.1	653.8	55.3	41.8	38.1	33.6	29.1	26.6	21.4	17.2
2759.3	67.5°	1703.9	585.4	43.6	34.8	32.9	26.6	22.8	21.2	17.6	13.5
2997.0	70°	1751.2	454.7	33.9	28.2	27.1	19.4	17.6	17.4	14.0	10.4
2981.0	72.5°	1621.3	298.1	26.0	21.4	19.4	12.6	13.5	13.5	10.2	7.0
2613.1	75°	1353.4	174.4	18.7	15.3	11.1	8.1	9.3	9.3	6.3	3.4
1862.5	77.5°	966.6	93.0	12.4	9.5	5.6	3.6	5.0	4.7	2.0	0.2
730.1	80°	369.7	32.0	5.9	3.8	1.6	0.7	0.5	0.2	0.2	0.0
114.0	82.5°	56.4	8.4	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
24.1	85°	10.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	2.3	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>
601.2
489.7
355.7
238.5
172.9
152.1
144.2
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107.4
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93.2
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