

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: P945047

Luminaire Tested: **GALN-SB1A-840-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

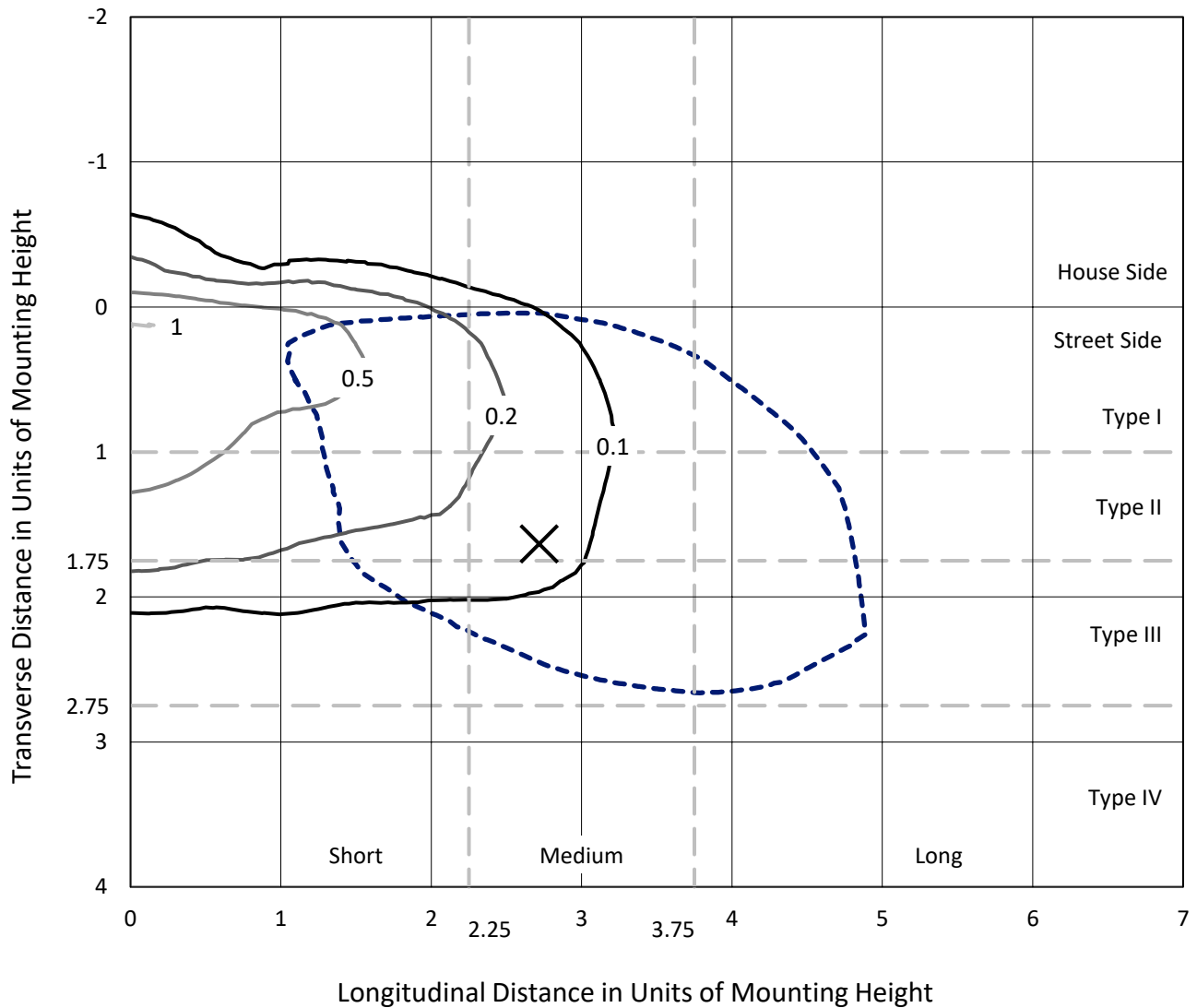
Lumens per Lamp: N/A  
Luminaire Lumens: 3456 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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

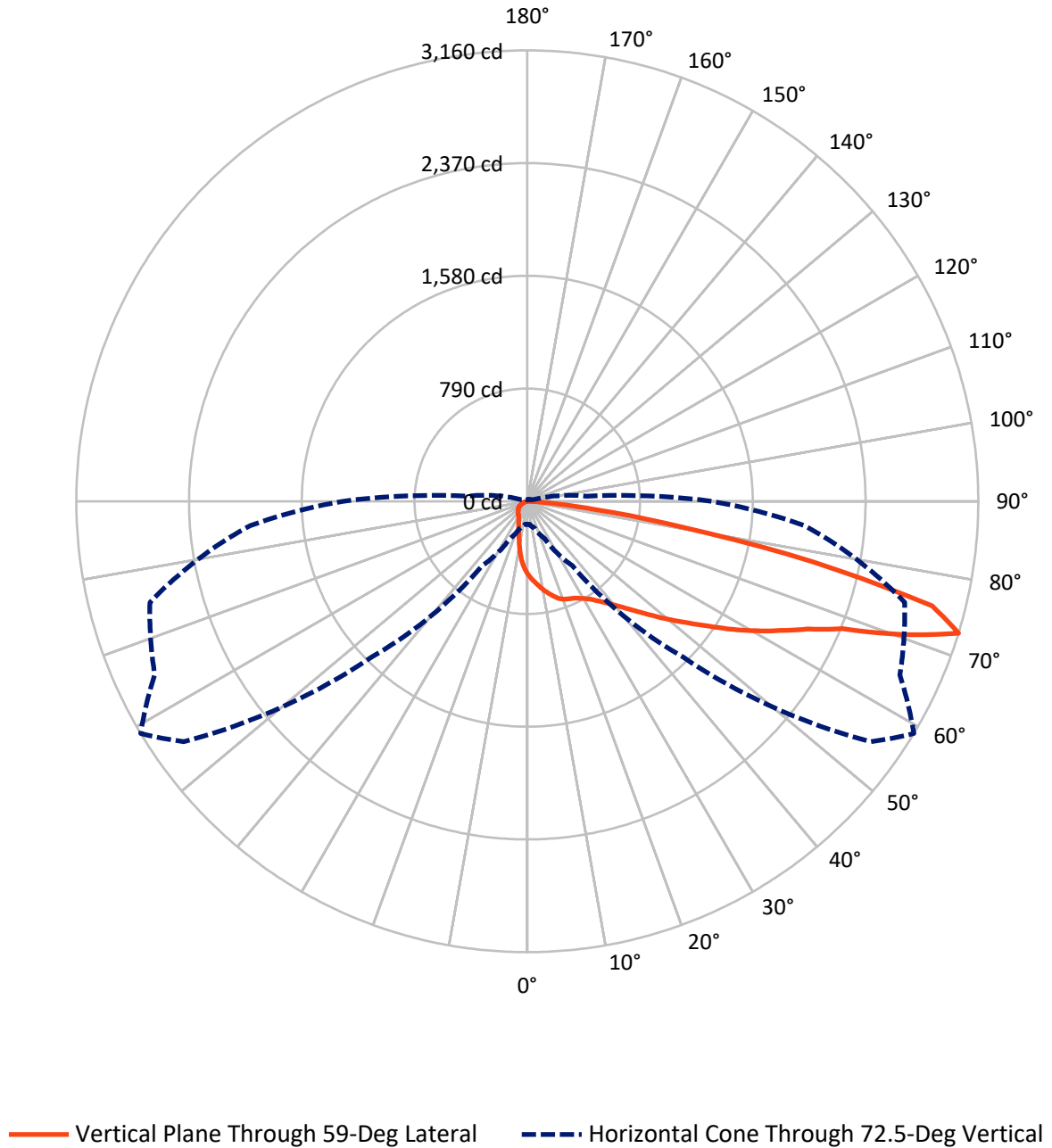
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - 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	365.0	0.0	365.0
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	3091.0	0.0	3091.0
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	3456.0	0.0	3456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	1.3
10°-20°	122.8	3.6
20°-30°	194.6	5.6
30°-40°	312.4	9.0
40°-50°	498.9	14.4
50°-60°	722.3	20.9
60°-70°	857.2	24.8
70°-80°	636.4	18.4
80°-90°	65.1	1.9
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°	3456.0	100.0
0°-180°	3456.0	100.0

**Coefficient of Utilization**



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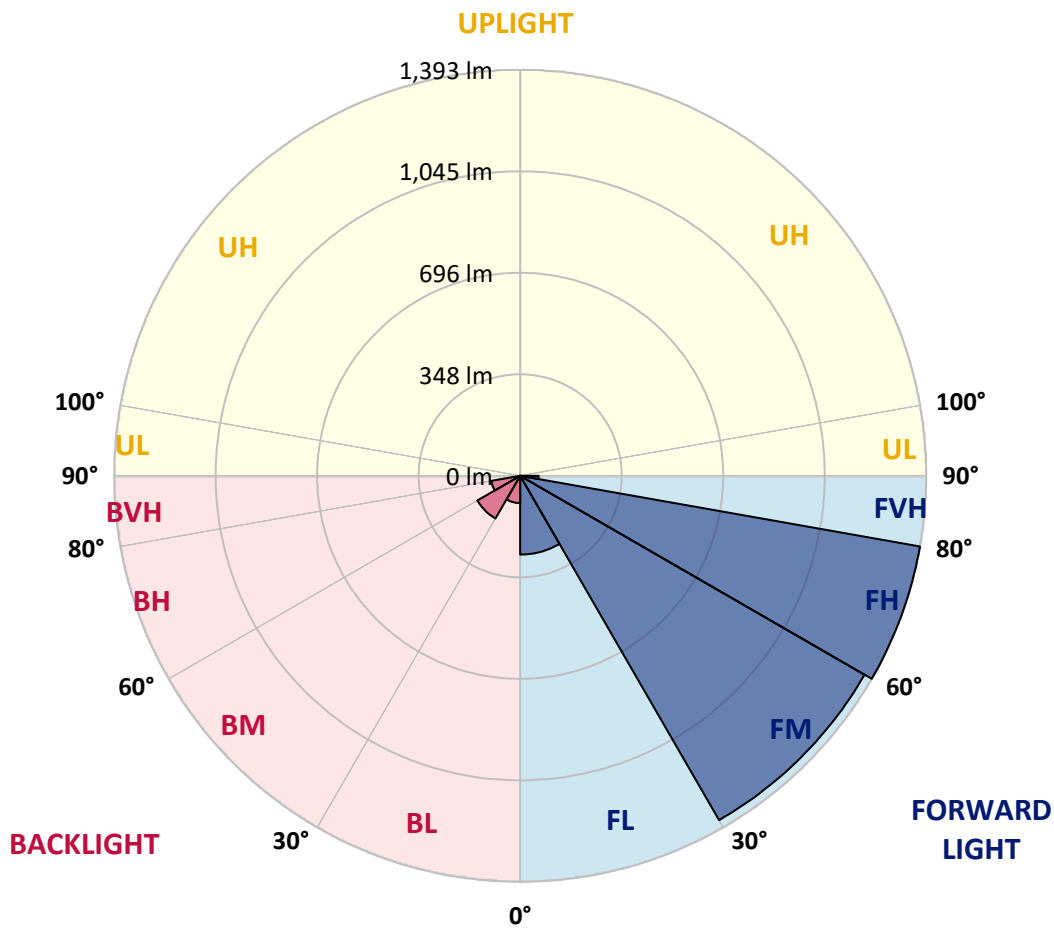
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.2	7.8			
FM (30°-60°)	1364.4	39.5			
FH (60°-80°)	1393.0	40.3			G1/1800
FVH (80°-90°)	63.4	1.8			G1/100
BL (0°-30°)	93.5	2.7	B0/110		
BM (30°-60°)	169.2	4.9	B0/220		
BH (60°-80°)	100.7	2.9	B0/110		G0/110
BVH (80°-90°)	1.6	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1
2.5°	567.0	563.9	564.3	558.9	555.1	551.0	543.1	542.0	536.3	526.4
5°	616.4	614.4	612.6	606.5	598.6	588.7	575.4	570.6	560.2	543.1
7.5°	652.5	650.1	651.0	644.9	638.5	627.5	609.2	600.4	586.6	560.5
10°	659.5	658.2	664.0	666.3	666.3	659.3	641.5	632.7	612.6	579.2
12.5°	620.3	620.5	635.2	652.8	675.8	682.3	670.4	660.9	641.0	599.1
15°	574.5	574.7	588.9	611.5	649.1	686.8	696.3	690.2	669.7	620.5
17.5°	546.9	545.8	555.3	573.8	613.3	666.3	712.1	716.2	699.5	644.2
20°	543.1	541.1	546.0	555.3	583.5	640.6	713.9	733.1	730.2	671.0
22.5°	566.6	563.4	560.7	561.2	573.1	619.1	709.4	742.6	761.7	703.3
25°	613.0	608.1	599.3	588.0	585.5	614.6	706.2	752.9	791.1	744.6
27.5°	669.9	662.9	646.0	629.1	614.6	627.3	712.8	769.4	824.2	792.7
30°	732.4	723.8	706.9	674.9	651.9	655.5	728.3	791.1	866.7	847.0
32.5°	824.2	804.4	774.8	725.9	695.4	685.9	751.8	818.6	919.2	919.5
35°	903.0	891.9	862.1	801.2	738.7	726.3	782.7	857.4	992.1	1015.4
37.5°	954.7	939.5	913.4	867.6	806.0	767.8	824.0	905.0	1069.3	1124.6
40°	1012.4	997.5	962.8	919.7	884.0	839.1	876.1	959.8	1153.9	1236.7
42.5°	1082.1	1062.7	1021.7	975.2	938.0	933.0	944.3	1028.2	1240.8	1358.5
45°	1164.0	1145.8	1098.6	1039.9	1007.2	998.4	1030.0	1107.9	1337.6	1492.1
47.5°	1240.8	1219.5	1168.8	1115.3	1079.0	1051.2	1121.2	1202.0	1447.2	1631.8
50°	1306.0	1284.3	1237.8	1180.7	1156.1	1119.8	1210.7	1306.9	1556.0	1773.7
52.5°	1350.6	1331.5	1276.9	1238.1	1221.4	1203.1	1315.7	1418.1	1664.3	1903.7
55°	1340.5	1323.3	1275.3	1272.6	1271.4	1290.6	1441.1	1544.2	1774.6	2026.6
57.5°	1308.2	1288.8	1228.8	1270.1	1310.0	1368.7	1577.0	1693.4	1895.5	2142.6
60°	1213.2	1206.5	1169.9	1265.4	1326.3	1445.2	1732.2	1843.2	2026.4	2244.6
62.5°	1012.2	1018.1	1017.8	1275.3	1355.6	1532.3	1873.2	1994.8	2154.3	2342.8
65°	757.9	778.2	804.2	1185.9	1394.9	1687.7	2041.8	2159.3	2284.3	2456.9
67.5°	509.3	525.5	543.1	972.9	1278.0	1851.1	2321.8	2384.7	2440.0	2583.5
70°	291.5	296.7	321.3	607.6	985.1	1806.0	2777.8	2800.6	2672.2	2739.4
72.5°	163.4	161.6	194.0	288.4	550.5	1546.5	2937.5	3159.8	2880.0	2736.9
75°	109.2	109.4	133.6	181.9	214.6	1082.6	2531.4	2929.9	2755.4	2426.9
77.5°	74.5	76.9	98.2	140.6	99.3	528.2	1674.7	2052.4	2230.8	1874.1
80°	32.3	32.5	64.8	100.9	67.0	168.1	868.2	1099.5	1399.2	1052.4
82.5°	16.7	19.0	41.3	65.2	42.2	58.9	410.2	480.4	587.1	308.9
85°	5.9	7.0	25.5	32.0	21.2	21.0	142.8	145.5	124.3	46.5
87.5°	0.0	1.1	9.9	7.9	2.7	2.5	16.9	14.2	11.3	6.5
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°
511.1	0°	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1	511.1
516.2	2.5°	511.5	505.4	495.5	483.3	469.1	461.4	450.4	443.6	437.5	437.7
523.2	5°	512.2	502.0	476.8	449.9	420.1	398.2	373.9	356.7	343.6	340.5
530.5	7.5°	514.2	497.1	455.8	411.1	361.5	324.7	291.1	269.9	257.9	254.7
537.9	10°	516.9	491.7	432.1	363.7	302.1	257.9	229.9	216.4	211.0	206.9
547.4	12.5°	519.2	486.0	402.3	314.8	249.3	214.8	193.6	182.3	177.6	174.6
558.4	15°	523.0	478.6	370.0	269.2	213.7	185.5	165.4	157.0	155.7	156.1
570.6	17.5°	526.9	471.3	333.9	233.5	187.5	159.7	147.6	146.2	148.0	149.8
584.6	20°	531.1	461.0	297.4	206.7	163.4	141.9	138.8	139.7	140.6	143.7
603.8	22.5°	537.5	447.9	265.3	183.9	143.3	133.3	131.8	132.4	133.1	136.3
629.1	25°	546.5	433.9	239.4	162.9	130.6	126.4	124.8	124.8	125.7	128.6
658.4	27.5°	556.0	414.0	218.4	143.5	123.2	118.7	116.0	116.0	117.1	120.5
695.2	30°	566.6	396.0	201.9	129.1	116.9	111.0	107.4	106.5	107.9	112.1
748.4	32.5°	585.7	384.3	190.2	122.3	111.2	104.0	99.1	96.6	97.9	102.9
822.9	35°	614.9	381.5	182.1	118.9	105.8	97.7	90.7	86.9	88.0	93.2
914.7	37.5°	648.9	387.2	174.2	114.4	100.6	91.6	82.4	77.4	79.2	83.9
1019.6	40°	697.9	410.7	168.1	111.0	95.4	84.4	74.0	69.0	72.0	76.0
1128.8	42.5°	757.0	452.4	166.5	107.9	89.1	76.7	66.3	62.7	65.0	68.8
1239.2	45°	830.3	505.6	173.7	103.8	82.1	69.3	60.2	58.2	58.9	62.7
1343.4	47.5°	909.1	560.2	193.6	100.2	76.0	63.2	55.5	53.7	53.2	56.9
1438.6	50°	988.7	608.8	217.1	97.5	71.8	58.2	51.9	49.6	48.5	50.8
1532.7	52.5°	1067.5	647.3	232.4	93.0	67.5	53.2	48.7	45.4	43.3	44.4
1626.4	55°	1147.3	681.2	233.3	86.2	63.4	50.1	45.6	41.7	39.3	39.3
1716.6	57.5°	1222.0	711.0	220.0	77.2	57.8	47.2	41.3	38.1	35.4	34.5
1796.7	60°	1288.1	733.1	197.9	67.0	52.8	43.3	37.0	34.5	31.1	29.3
1868.0	62.5°	1347.0	743.9	167.6	56.6	46.7	38.8	32.9	30.2	25.7	23.5
1940.4	65°	1396.9	732.9	136.1	46.9	41.5	33.8	28.2	25.5	20.5	17.8
2021.9	67.5°	1446.3	682.3	102.9	39.5	36.1	28.4	23.2	20.8	17.1	14.9
2081.2	70°	1452.6	576.0	72.0	33.2	30.0	21.9	18.7	17.1	14.0	12.0
1948.8	72.5°	1293.1	414.5	43.8	27.1	23.5	15.6	14.9	13.5	10.4	9.0
1592.3	75°	1033.6	254.1	25.7	20.3	15.6	11.1	11.1	9.7	7.0	5.9
1099.3	77.5°	714.4	132.9	15.1	13.1	9.3	6.5	7.2	5.9	3.4	2.7
435.5	80°	286.1	50.5	8.1	6.1	4.3	2.9	2.5	1.4	0.7	0.5
89.4	82.5°	57.1	13.3	2.7	1.6	1.6	0.7	0.0	0.0	0.0	0.0
24.6	85°	14.7	2.9	0.7	0.5	0.5	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	4.5	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>
511.1
442.7
345.2
257.9
209.4
176.2
156.8
150.5
144.6
137.2
129.7
121.8
113.3
104.2
94.8
85.3
76.7
69.5
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59.1
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45.4
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