

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: P939321

Luminaire Tested: **GALN-SB1D-840-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6797 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

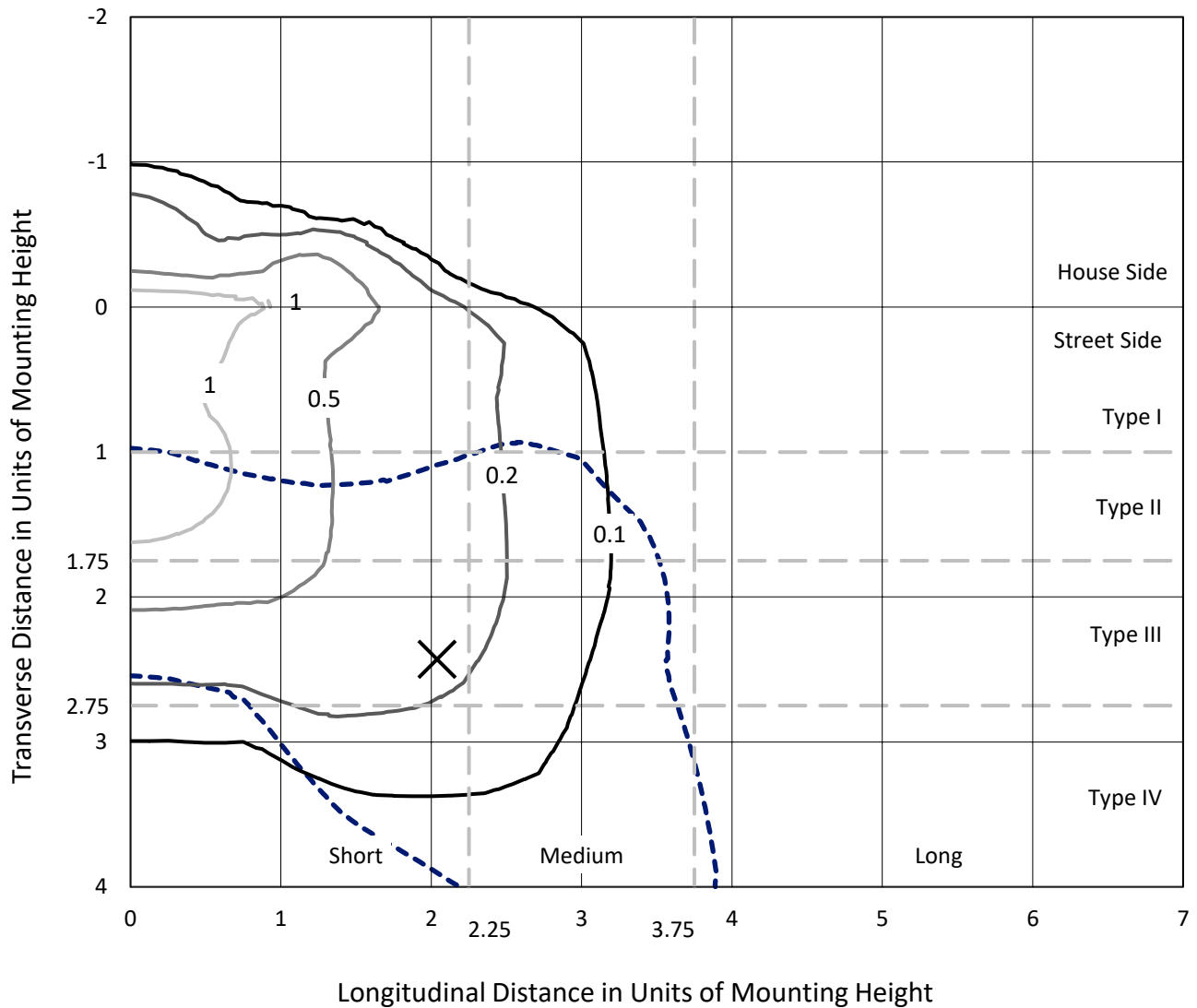
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

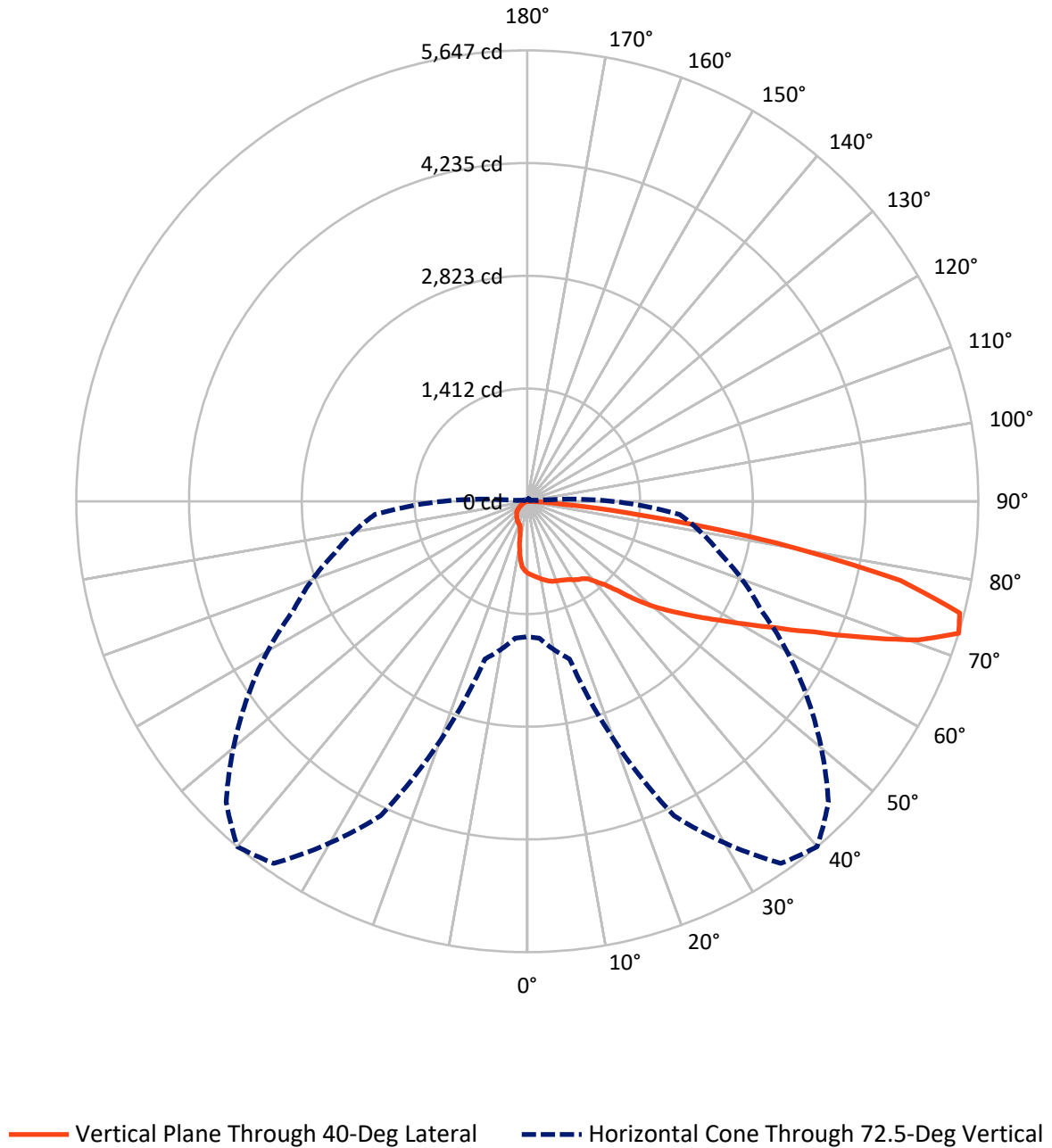
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.8	0.0	877.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5919.2	0.0	5919.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	6797.0	0.0	6797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.2
10°-20°	223.2	3.3
20°-30°	361.2	5.3
30°-40°	533.2	7.8
40°-50°	897.4	13.2
50°-60°	1393.4	20.5
60°-70°	1743.6	25.7
70°-80°	1427.5	21.0
80°-90°	135.4	2.0
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°	6797.0	100.0
0°-180°	6797.0	100.0

Coefficient of Utilization



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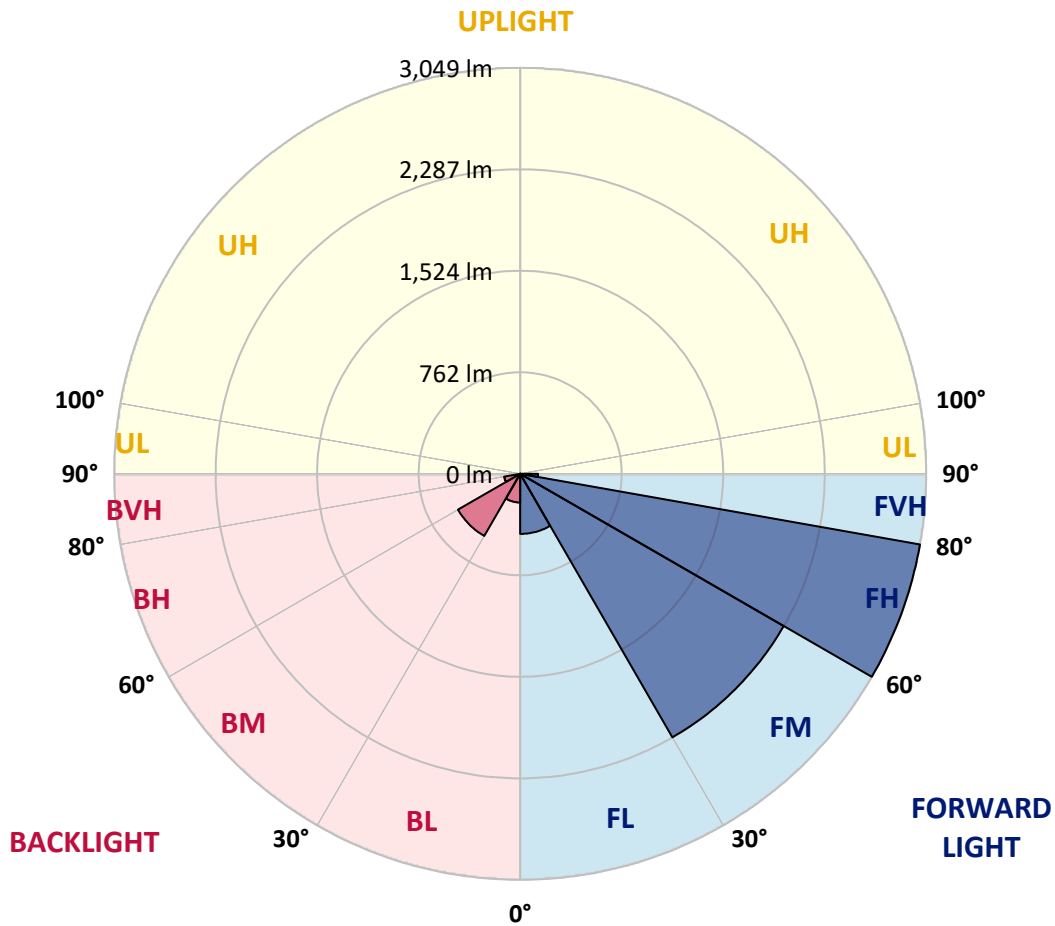
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.1	6.6			
FM (30°-60°)	2285.0	33.6			
FH (60°-80°)	3048.8	44.9			G2/5000
FVH (80°-90°)	134.3	2.0			G2/225
BL (0°-30°)	215.4	3.2	B1/500		
BM (30°-60°)	539.0	7.9	B1/1000		
BH (60°-80°)	122.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.0	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°	40°	45°	55°	65°	75°
0°	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0
2.5°	927.1	930.7	928.6	924.6	923.5	921.5	918.9	917.9	914.3	911.2
5°	953.2	956.8	954.2	948.6	946.1	943.5	939.9	936.8	929.7	923.0
7.5°	981.9	985.0	981.9	973.7	969.6	966.5	961.4	956.8	948.6	938.9
10°	1013.6	1016.2	1011.6	1000.8	994.2	989.6	985.0	979.8	972.2	961.4
12.5°	1043.3	1046.4	1039.2	1026.4	1018.7	1014.1	1009.0	1004.9	997.2	987.0
15°	1070.5	1075.1	1062.8	1049.0	1040.2	1036.7	1031.5	1029.0	1023.9	1016.7
17.5°	1090.9	1094.0	1081.2	1064.8	1055.1	1052.5	1049.0	1050.5	1049.5	1045.9
20°	1108.3	1110.4	1093.5	1073.5	1062.8	1063.3	1062.3	1067.4	1069.4	1069.4
22.5°	1129.8	1130.3	1108.8	1083.8	1071.0	1074.5	1076.1	1081.7	1085.8	1089.9
25°	1158.0	1157.0	1131.4	1097.1	1085.8	1090.9	1094.5	1096.6	1101.2	1107.8
27.5°	1200.0	1196.9	1164.1	1118.6	1105.3	1109.9	1116.5	1115.5	1113.5	1118.6
30°	1253.2	1249.1	1205.6	1148.8	1136.5	1140.6	1142.6	1133.4	1118.6	1123.2
32.5°	1337.7	1330.5	1270.1	1182.6	1163.6	1168.2	1165.7	1146.7	1124.7	1129.3
35°	1484.6	1467.2	1381.7	1253.2	1194.3	1189.2	1183.1	1164.6	1137.5	1132.9
37.5°	1796.9	1766.2	1620.3	1390.9	1264.0	1230.7	1211.7	1193.3	1151.3	1132.9
40°	2149.1	2117.9	1949.4	1621.3	1379.7	1323.3	1278.3	1227.1	1165.7	1139.6
42.5°	2516.7	2482.4	2309.3	1906.9	1545.0	1429.3	1345.4	1254.2	1189.2	1160.0
45°	2927.2	2884.2	2658.0	2204.9	1785.1	1605.4	1453.4	1310.0	1230.2	1196.4
47.5°	3360.3	3304.5	3005.6	2494.1	2043.6	1849.1	1651.0	1409.9	1290.6	1250.7
50°	3744.3	3689.0	3364.4	2796.7	2285.3	2081.0	1876.2	1548.1	1381.2	1327.4
52.5°	4020.2	3978.2	3691.0	3109.0	2536.6	2298.6	2080.5	1708.8	1495.9	1425.7
55°	4205.0	4166.6	3922.4	3404.9	2828.9	2538.2	2281.7	1883.4	1634.1	1543.5
57.5°	4317.1	4295.1	4089.8	3669.0	3118.7	2800.3	2512.1	2075.4	1796.9	1682.2
60°	4357.1	4339.1	4193.8	3920.9	3468.9	3115.1	2782.9	2291.9	1994.5	1839.9
62.5°	4250.6	4254.2	4268.5	4219.4	3838.0	3483.7	3107.4	2552.0	2213.6	2018.6
65°	3749.4	3779.1	4051.4	4550.1	4326.9	3945.5	3520.6	2869.4	2464.4	2221.8
67.5°	3104.4	3147.4	3486.3	4743.6	4848.0	4544.9	4096.0	3273.8	2763.4	2428.6
70°	2376.4	2422.5	2833.0	4703.1	5335.9	5200.2	4807.6	3788.3	3073.1	2572.0
72.5°	1696.0	1719.6	2043.1	4343.2	5536.0	5646.6	5331.8	4275.7	3231.3	2492.6
75°	1191.8	1187.7	1402.2	3497.5	5224.3	5592.4	5148.0	4012.0	2924.2	1980.2
77.5°	519.1	520.1	700.3	2124.0	4169.7	4776.3	4279.2	2513.1	2038.5	1049.5
80°	134.6	138.7	257.0	845.7	2510.5	3152.5	2609.8	1104.8	942.0	256.0
82.5°	47.6	50.7	118.3	265.7	926.1	1445.7	1162.1	353.2	245.7	73.2
85°	13.8	16.4	63.5	81.4	191.5	408.5	282.1	68.6	60.4	37.9
87.5°	0.0	2.0	12.8	11.3	11.3	7.7	14.3	7.7	9.7	4.6
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°
900.0	0°	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0
907.7	2.5°	904.6	901.0	893.3	885.1	877.5	870.3	868.2	860.6	857.0	857.5
914.8	5°	909.2	902.5	887.7	869.8	851.3	830.4	812.9	788.4	767.4	764.8
928.6	7.5°	921.5	910.7	886.7	851.9	805.8	747.9	694.2	640.9	610.7	594.4
949.1	10°	940.4	926.1	889.2	822.7	724.9	621.5	540.1	473.0	438.7	422.9
974.2	12.5°	962.9	947.1	893.3	773.0	620.5	484.8	396.7	355.8	348.6	347.6
1004.9	15°	994.7	977.3	897.9	706.0	507.3	369.1	328.7	329.2	334.8	337.9
1038.2	17.5°	1030.0	1012.6	891.3	624.0	395.7	315.4	314.3	318.9	327.1	330.2
1068.9	20°	1065.8	1049.5	867.7	527.8	320.0	300.5	304.6	309.7	317.9	322.0
1099.1	22.5°	1102.7	1088.4	830.4	425.4	288.7	289.8	294.9	300.0	309.2	313.8
1128.8	25°	1142.1	1129.8	780.7	340.9	275.4	278.5	285.1	291.3	301.0	306.6
1153.9	27.5°	1182.1	1172.8	724.4	284.6	263.1	266.7	274.4	282.6	292.3	299.0
1175.9	30°	1225.6	1220.4	679.3	263.6	251.4	254.4	263.1	272.3	283.1	291.3
1197.9	32.5°	1270.1	1269.1	657.3	279.0	240.6	242.7	250.3	259.5	272.9	283.1
1216.4	35°	1314.1	1316.2	644.5	322.5	237.0	231.4	236.5	244.7	260.6	273.4
1237.3	37.5°	1370.4	1375.6	644.0	369.6	245.7	220.1	223.7	229.3	243.2	258.0
1270.1	40°	1454.4	1481.5	676.8	410.1	261.1	209.9	210.9	211.9	219.1	231.4
1313.6	42.5°	1566.0	1645.4	795.0	437.7	267.2	200.7	197.1	191.5	190.4	197.1
1373.0	45°	1704.7	1843.5	1002.9	453.1	261.1	190.4	180.7	165.9	160.2	164.8
1453.4	47.5°	1868.0	2060.5	1249.1	456.6	250.8	177.6	160.2	140.8	136.2	137.7
1561.4	50°	2027.3	2223.3	1465.7	427.0	234.0	161.3	137.7	121.3	118.3	118.8
1688.9	52.5°	2168.0	2279.1	1527.1	356.8	211.4	141.3	118.3	107.0	104.9	104.9
1829.6	55°	2261.2	2218.7	1361.7	272.9	183.3	120.8	101.4	95.7	94.7	94.2
1986.8	57.5°	2280.7	2022.1	1028.5	197.1	143.3	101.9	90.1	87.0	85.0	82.9
2148.1	60°	2211.0	1694.5	654.8	137.7	107.5	87.0	79.9	77.8	73.7	69.6
2299.6	62.5°	2060.5	1279.8	362.4	95.7	86.5	74.2	70.6	68.1	60.4	53.8
2419.9	65°	1858.3	850.8	160.2	74.7	70.6	62.5	60.4	56.8	47.6	39.9
2465.5	67.5°	1655.1	489.9	72.2	59.9	56.8	51.2	49.7	47.1	40.4	33.3
2349.3	70°	1423.2	248.3	49.7	47.6	44.0	38.9	40.4	39.9	33.3	27.1
1916.2	72.5°	1059.7	123.4	37.4	35.8	31.7	27.6	33.3	32.8	26.1	20.5
1181.5	75°	600.0	60.9	27.1	25.1	18.9	20.5	26.6	25.1	17.9	13.3
498.6	77.5°	238.0	31.2	17.9	15.4	11.3	13.8	19.5	16.9	9.2	5.6
95.2	80°	54.8	15.4	9.2	6.7	5.1	8.2	10.2	6.1	2.6	0.5
25.6	82.5°	15.4	6.7	3.1	2.6	2.6	3.1	2.6	1.0	0.0	0.0
6.7	85°	5.1	3.1	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
2.0	87.5°	2.0	1.0	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>
900.0
857.0
763.3
593.3
419.8
347.1
337.4
329.7
322.0
313.8
306.6
299.5
292.3
284.1
275.4
260.6
235.5
200.7
164.8
137.2
118.8
104.4
93.2
81.9
68.1
51.7
38.4
32.3
26.1
19.5
12.3
5.1
0.0
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