

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: P946067

Luminaire Tested: **GALN-SB1D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6818 lumens
Efficiency: N/A
Efficacy: 85.7 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

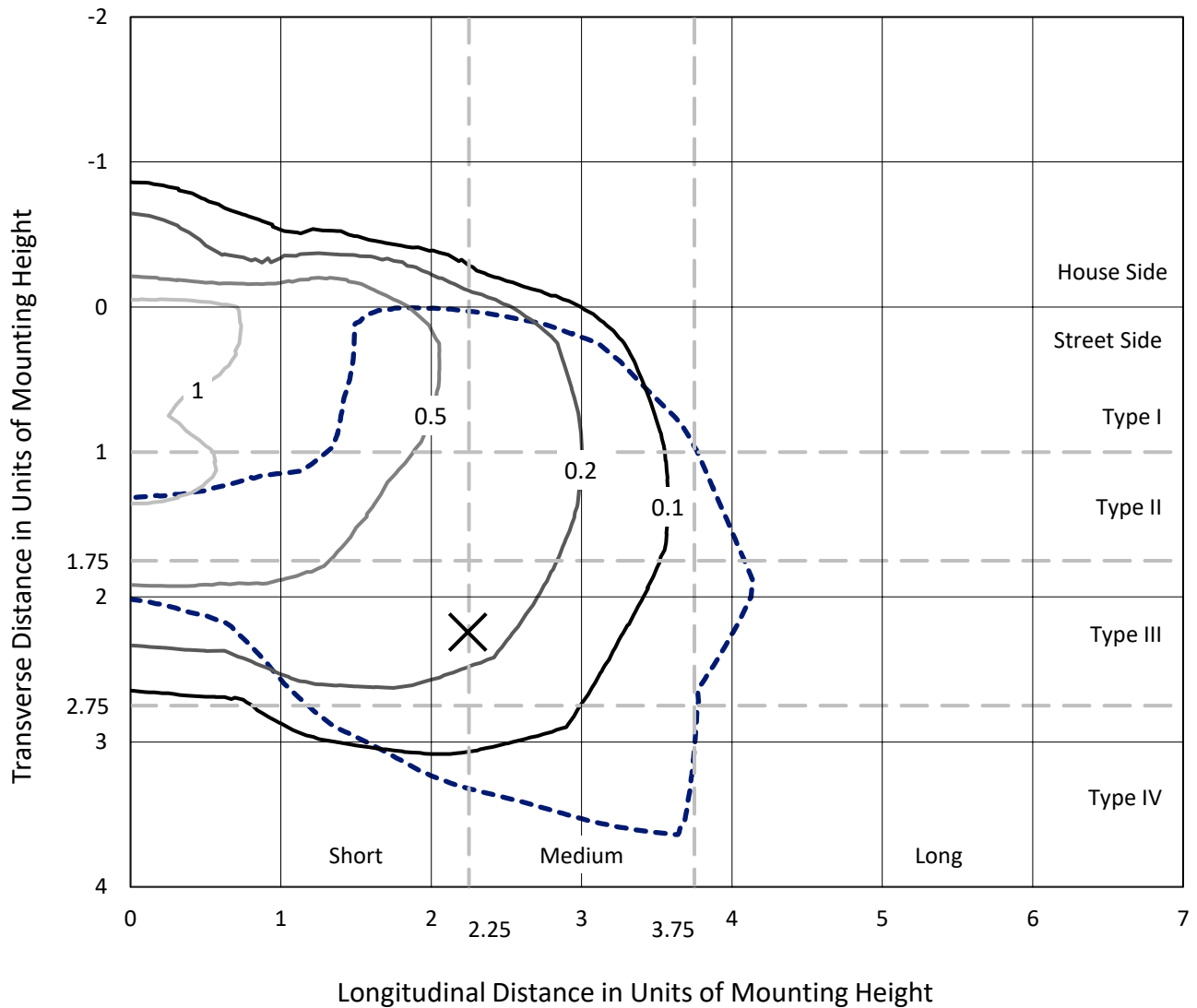
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

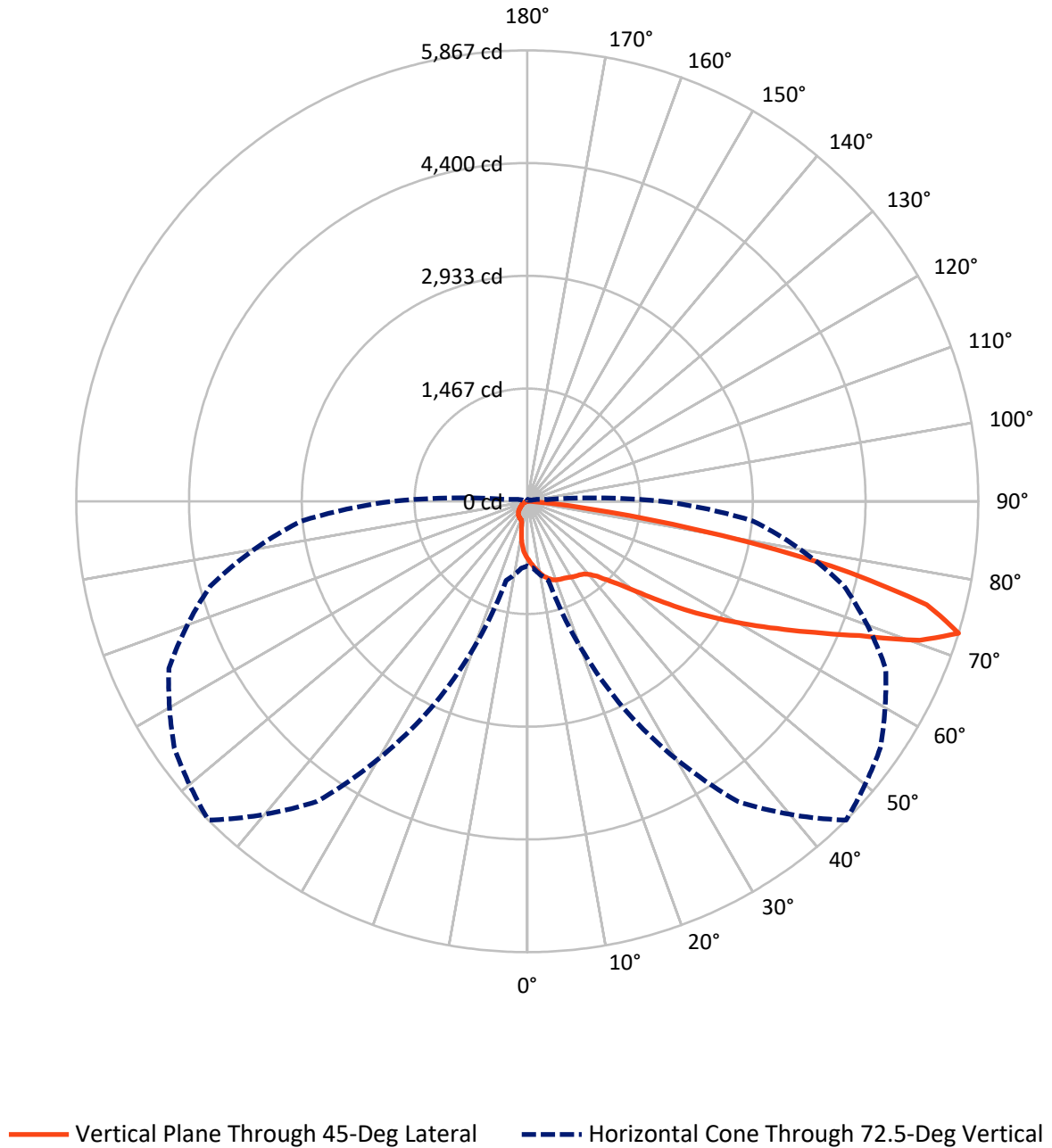
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	716.4	0.0	716.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6101.6	0.0	6101.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	6818.0	0.0	6818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	205.7	3.0
20°-30°	337.8	5.0
30°-40°	479.0	7.0
40°-50°	791.8	11.6
50°-60°	1422.3	20.9
60°-70°	1975.0	29.0
70°-80°	1432.6	21.0
80°-90°	103.6	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°	6818.0	100.0
0°-180°	6818.0	100.0

Coefficient of Utilization



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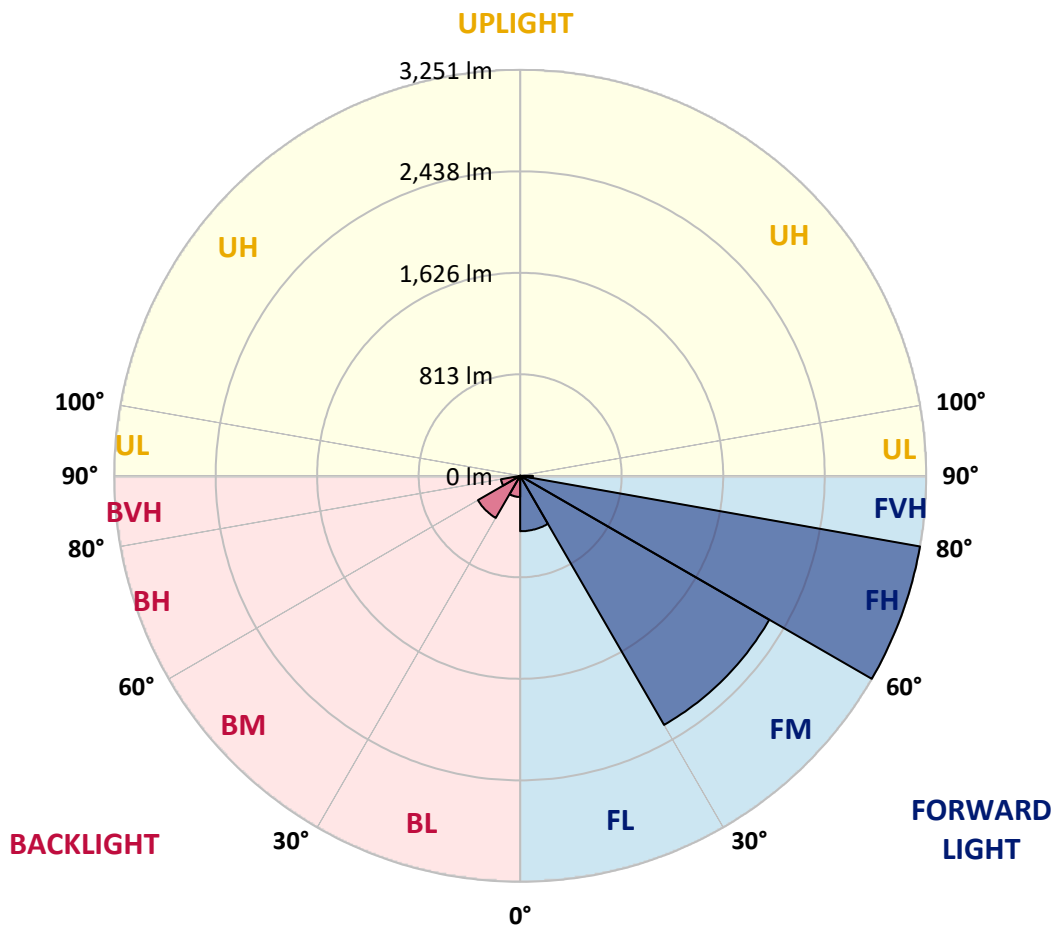
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.1	6.5			
FM (30°-60°)	2303.5	33.8			
FH (60°-80°)	3251.3	47.7			G2/5000
FVH (80°-90°)	102.7	1.5			G2/225
BL (0°-30°)	169.7	2.5	B1/500		
BM (30°-60°)	389.6	5.7	B1/1000		
BH (60°-80°)	156.2	2.3	B1/500		G1/500
BVH (80°-90°)	0.9	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°	45°	46°	55°	65°	75°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	815.8	817.2	816.3	810.7	801.4	796.3	793.5	784.2	778.1	767.4
5°	890.7	896.3	893.1	881.9	864.2	851.6	847.9	828.8	811.6	791.6
7.5°	970.3	973.1	967.0	952.6	928.9	907.5	904.2	877.7	850.2	819.5
10°	1039.2	1042.4	1033.1	1012.2	985.2	958.7	954.0	924.7	892.1	854.4
12.5°	1096.9	1100.1	1088.0	1062.9	1033.1	1005.7	1001.0	970.3	934.5	892.6
15°	1140.6	1146.7	1130.4	1103.4	1071.3	1043.8	1041.5	1011.3	976.4	929.8
17.5°	1166.2	1172.3	1156.9	1124.3	1096.9	1073.6	1070.8	1045.7	1013.1	968.4
20°	1170.4	1176.0	1159.7	1131.3	1108.5	1089.9	1088.5	1070.4	1046.6	1003.8
22.5°	1157.9	1164.8	1149.9	1127.1	1111.3	1101.5	1099.7	1089.4	1075.9	1039.6
25°	1144.8	1150.4	1139.2	1119.2	1110.8	1109.9	1111.3	1109.5	1106.7	1075.9
27.5°	1143.9	1149.9	1137.4	1118.3	1113.6	1123.4	1124.8	1133.7	1136.0	1109.0
30°	1151.8	1156.0	1143.9	1123.9	1121.6	1143.9	1144.4	1160.2	1163.9	1136.9
32.5°	1169.0	1173.7	1161.6	1132.3	1129.0	1160.2	1161.6	1182.5	1188.6	1166.7
35°	1209.5	1215.1	1201.1	1155.5	1143.9	1175.5	1179.7	1204.4	1216.5	1198.3
37.5°	1310.5	1294.2	1275.1	1202.5	1177.9	1199.7	1206.7	1235.6	1257.0	1236.0
40°	1561.3	1510.1	1450.6	1282.6	1237.4	1251.4	1257.0	1285.8	1315.1	1294.7
42.5°	1937.8	1877.3	1781.5	1466.9	1327.2	1334.2	1338.4	1363.5	1405.0	1388.7
45°	2273.4	2251.5	2153.8	1781.5	1495.2	1460.8	1465.9	1479.0	1539.9	1533.9
47.5°	2531.2	2518.6	2443.2	2142.6	1779.1	1615.8	1630.2	1636.3	1724.2	1745.6
50°	2729.4	2724.8	2657.3	2463.7	2150.0	1844.3	1849.4	1836.4	1968.1	2021.1
52.5°	2916.5	2932.3	2882.5	2762.0	2546.1	2143.5	2142.6	2081.2	2258.9	2339.0
55°	3085.4	3091.0	3096.1	3066.4	2944.4	2484.2	2475.3	2374.8	2596.3	2679.2
57.5°	3244.1	3246.5	3292.1	3353.0	3359.1	2850.0	2833.7	2713.1	2964.9	3024.0
60°	3350.7	3361.4	3457.7	3627.1	3701.1	3227.4	3218.5	3095.7	3340.0	3367.5
62.5°	3197.1	3262.3	3505.2	3841.2	4024.1	3645.7	3641.6	3526.1	3734.6	3712.3
65°	2587.9	2698.2	3125.5	3985.9	4341.0	4113.0	4119.0	3996.2	4140.0	4067.4
67.5°	1810.3	1926.7	2432.0	3997.6	4695.2	4661.7	4696.6	4503.9	4570.4	4407.6
70°	1251.9	1311.9	1640.9	3747.2	4971.1	5417.4	5416.5	5127.5	4998.6	4562.5
72.5°	841.9	873.0	1065.7	2972.8	4768.2	5866.5	5839.5	5604.0	5142.9	4267.0
75°	355.1	377.9	493.3	1670.7	3772.3	5367.2	5294.1	4952.5	4569.5	3360.0
77.5°	112.6	122.4	194.5	598.0	2077.9	4034.3	3957.1	3092.9	3062.6	1685.6
80°	53.5	62.4	109.4	240.1	817.7	2194.2	2183.5	1403.1	1317.5	455.1
82.5°	23.3	27.5	60.5	128.4	365.8	782.8	798.6	477.5	395.1	172.7
85°	7.4	9.8	27.9	59.1	154.5	194.5	192.2	113.6	159.2	94.0
87.5°	0.0	0.0	9.3	13.5	15.8	11.2	12.6	9.8	44.2	26.1
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°
746.9	0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
756.2	2.5°	750.6	743.2	730.2	718.1	707.4	696.7	690.2	680.8	679.9	679.9
768.3	5°	755.8	743.7	720.4	695.7	667.3	640.4	613.4	587.3	578.9	572.9
787.9	7.5°	770.7	751.6	714.8	667.8	613.8	554.7	513.3	468.6	451.4	442.1
813.9	10°	792.1	766.0	710.2	627.8	540.3	459.8	400.7	352.3	333.7	325.8
842.3	12.5°	815.8	783.7	701.8	578.0	459.8	363.5	305.8	283.4	280.6	280.6
876.3	15°	844.2	805.1	687.4	519.4	375.6	287.6	267.1	268.1	270.8	272.7
909.3	17.5°	873.5	827.9	664.6	453.7	301.1	258.7	259.2	260.6	262.9	264.8
945.2	20°	905.2	850.7	634.3	383.9	258.3	250.4	251.8	253.2	255.0	256.0
978.7	22.5°	939.1	872.1	598.5	315.5	243.9	243.4	243.9	245.3	247.6	247.6
1017.8	25°	975.4	895.8	557.5	265.7	236.4	236.4	237.3	238.3	240.1	240.1
1055.5	27.5°	1012.7	917.7	514.2	239.7	229.9	229.4	229.4	230.8	231.8	232.2
1092.7	30°	1053.6	943.3	471.0	234.1	224.8	222.4	221.1	222.0	222.9	223.4
1131.8	32.5°	1095.5	968.0	432.3	236.4	219.7	215.5	210.8	209.9	209.9	211.7
1172.3	35°	1142.0	995.0	402.5	244.3	216.9	205.2	197.8	193.6	194.1	196.9
1220.7	37.5°	1197.9	1027.5	380.7	251.3	215.0	193.6	181.5	176.4	173.1	176.4
1287.2	40°	1270.9	1075.5	364.9	256.9	212.7	180.1	163.8	155.4	149.4	151.2
1390.5	42.5°	1378.4	1150.9	358.8	257.4	207.6	164.3	145.7	134.5	125.7	126.1
1546.0	45°	1529.2	1270.0	390.0	251.3	196.4	147.1	126.6	111.7	106.1	104.7
1778.2	47.5°	1735.8	1443.6	462.1	238.7	180.1	130.3	108.0	95.4	91.2	88.9
2083.0	50°	2012.7	1666.5	542.2	224.8	163.8	114.5	92.6	84.7	81.9	79.6
2444.6	52.5°	2333.9	1892.7	607.8	210.8	147.5	100.5	82.8	78.2	75.9	74.0
2793.6	55°	2628.4	2048.6	604.1	195.9	131.7	89.4	75.9	73.1	70.3	68.4
3094.3	57.5°	2811.8	2070.5	498.0	179.6	113.6	80.5	69.3	67.5	64.2	61.9
3354.4	60°	2896.0	1945.7	349.0	158.2	95.4	72.1	62.4	61.4	57.2	54.0
3600.6	62.5°	2911.4	1714.0	232.7	131.7	79.6	64.2	55.4	54.0	48.4	42.8
3800.7	65°	2849.0	1382.6	161.0	102.8	67.9	55.8	47.5	44.7	38.6	33.0
3848.2	67.5°	2651.7	970.8	112.2	74.0	57.7	44.2	37.7	36.8	32.1	27.5
3606.2	70°	2290.1	553.3	74.9	55.4	45.6	30.2	29.8	30.7	26.1	22.3
2946.3	72.5°	1755.9	253.2	46.5	40.5	31.2	20.5	23.7	24.2	20.0	16.8
1838.2	75°	1033.6	108.4	29.3	26.1	15.8	13.5	17.2	17.7	13.5	10.7
672.0	77.5°	351.8	41.0	18.6	15.4	7.9	7.4	11.2	11.2	7.4	4.2
135.0	80°	80.0	15.4	9.3	6.0	3.7	3.3	3.7	3.3	1.9	0.5
41.4	82.5°	22.8	6.0	3.7	2.3	1.4	1.4	0.5	0.0	0.0	0.0
14.4	85°	6.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	2.8	0.5	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>
746.9
682.2
575.7
443.5
325.8
280.6
272.7
264.8
256.4
248.5
240.6
232.7
224.3
213.1
198.2
175.4
150.3
124.3
102.8
87.5
79.1
73.5
67.5
61.4
53.1
40.0
31.2
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9.3
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