

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: P946508

Luminaire Tested: **GALN-SB2A-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946508
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-SB2A-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

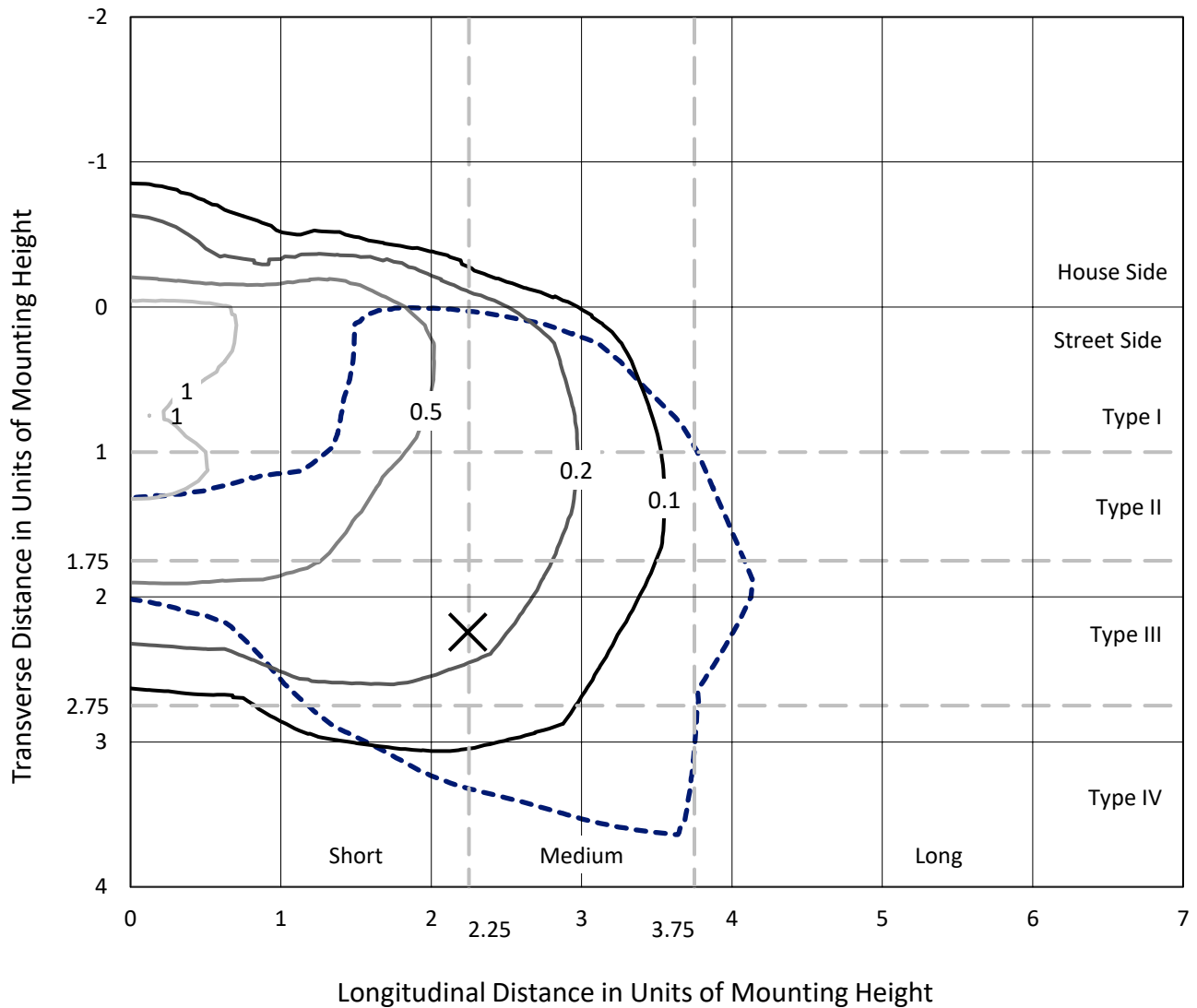
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

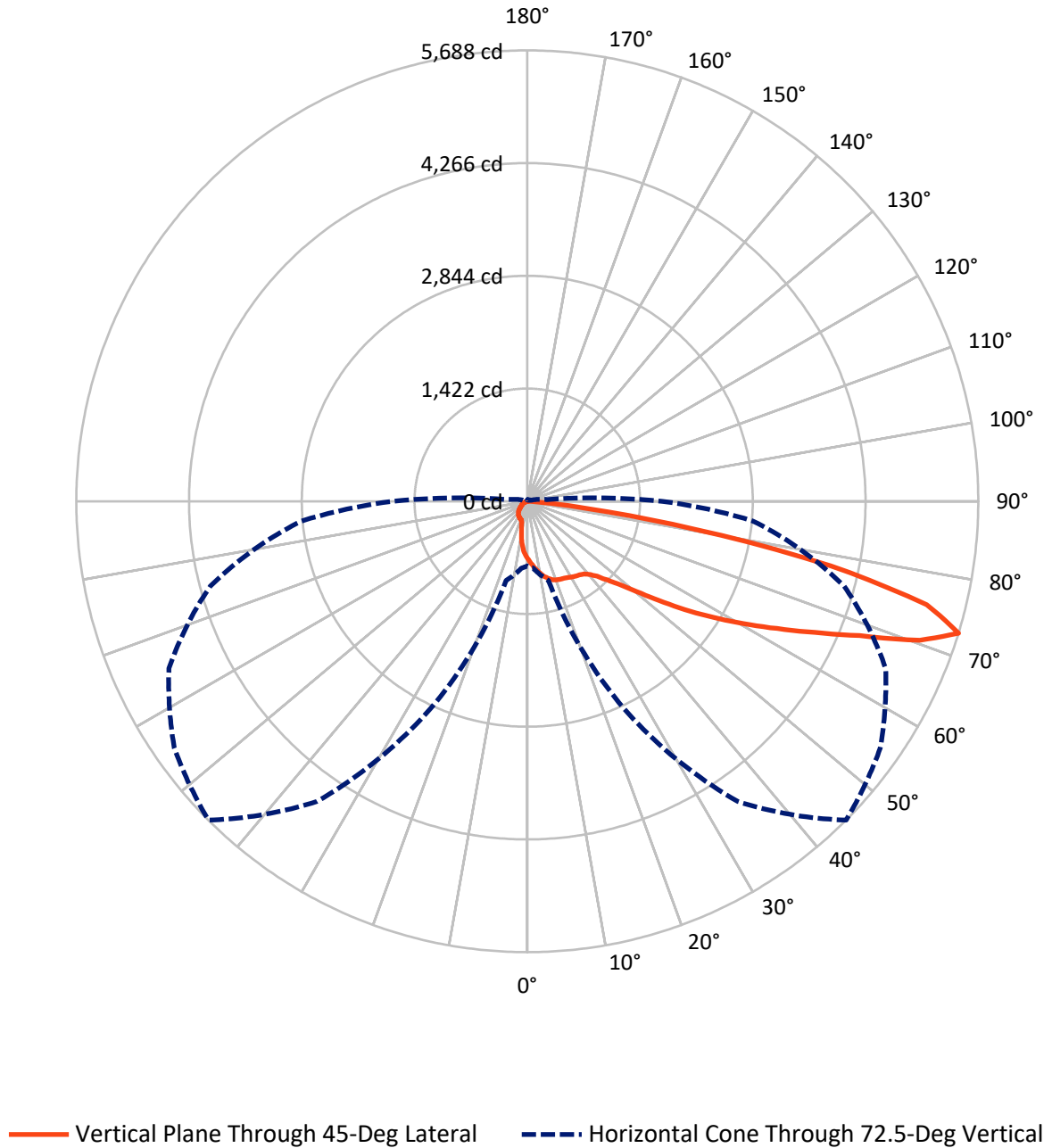
✕ Max cd
 - - - 1/2 Max cd



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	694.5	0.0	694.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5915.5	0.0	5915.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	6610.0	0.0	6610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.0
10°-20°	199.4	3.0
20°-30°	327.5	5.0
30°-40°	464.4	7.0
40°-50°	767.6	11.6
50°-60°	1378.9	20.9
60°-70°	1914.7	29.0
70°-80°	1388.9	21.0
80°-90°	100.4	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°	6610.0	100.0
0°-180°	6610.0	100.0

Coefficient of Utilization



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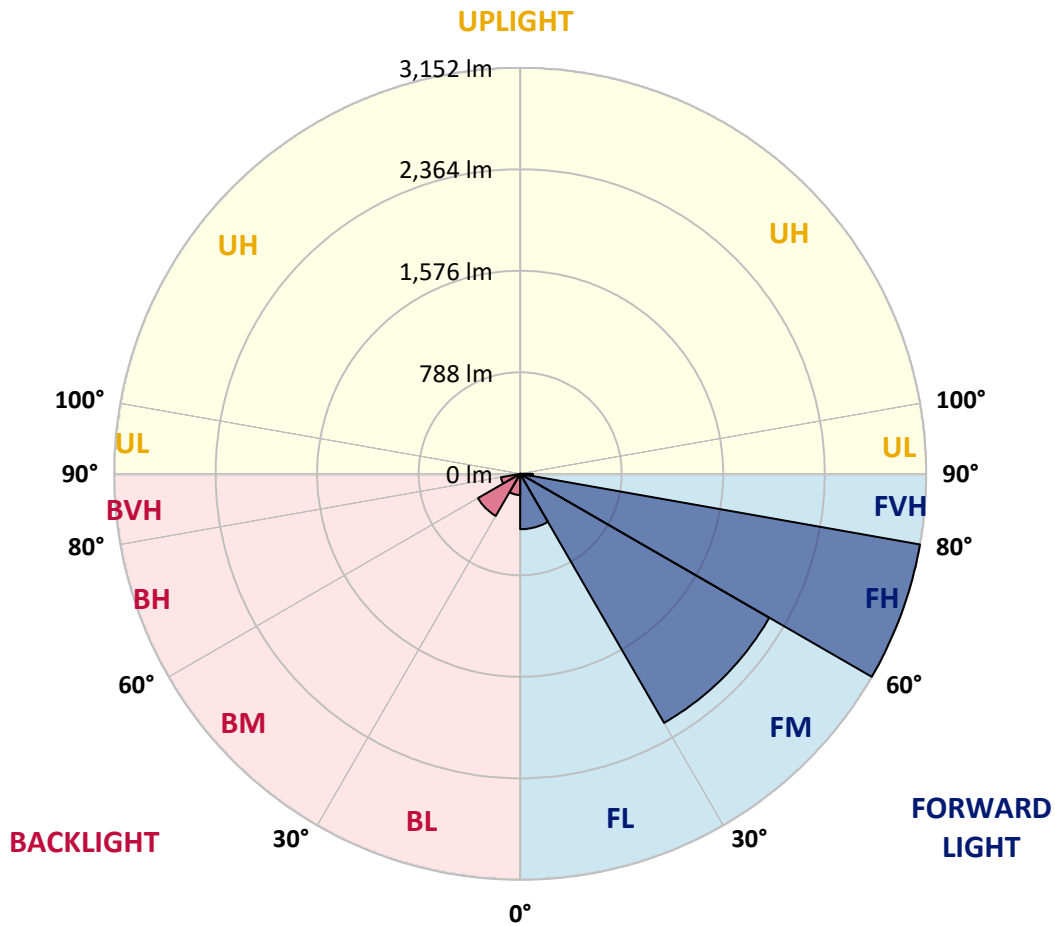
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.6	6.5			
FM (30°-60°)	2233.2	33.8			
FH (60°-80°)	3152.1	47.7			G2/5000
FVH (80°-90°)	99.6	1.5			G1/100
BL (0°-30°)	164.5	2.5	B1/500		
BM (30°-60°)	377.7	5.7	B1/1000		
BH (60°-80°)	151.5	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	790.9	792.3	791.4	786.0	776.9	772.0	769.3	760.2	754.4	744.0
5°	863.6	869.0	865.8	855.0	837.8	825.7	822.0	803.5	786.9	767.5
7.5°	940.7	943.4	937.5	923.6	900.5	879.8	876.6	850.9	824.3	794.5
10°	1007.5	1010.6	1001.6	981.3	955.1	929.4	924.9	896.5	864.9	828.4
12.5°	1063.4	1066.6	1054.9	1030.5	1001.6	975.0	970.5	940.7	906.0	865.4
15°	1105.8	1111.7	1095.9	1069.7	1038.6	1012.0	1009.7	980.4	946.6	901.5
17.5°	1130.7	1136.5	1121.6	1090.0	1063.4	1040.9	1038.2	1013.8	982.2	938.9
20°	1134.7	1140.1	1124.3	1096.8	1074.7	1056.7	1055.3	1037.7	1014.7	973.2
22.5°	1122.5	1129.3	1114.9	1092.8	1077.4	1067.9	1066.1	1056.2	1043.1	1007.9
25°	1109.9	1115.3	1104.5	1085.1	1077.0	1076.1	1077.4	1075.6	1072.9	1043.1
27.5°	1109.0	1114.9	1102.7	1084.2	1079.7	1089.1	1090.5	1099.1	1101.3	1075.2
30°	1116.7	1120.7	1109.0	1089.6	1087.3	1109.0	1109.4	1124.8	1128.4	1102.2
32.5°	1133.4	1137.9	1126.1	1097.7	1094.6	1124.8	1126.1	1146.4	1152.3	1131.1
35°	1172.6	1178.0	1164.5	1120.3	1109.0	1139.7	1143.7	1167.6	1179.4	1161.8
37.5°	1270.5	1254.7	1236.2	1165.8	1141.9	1163.1	1169.9	1197.9	1218.6	1198.3
40°	1513.7	1464.1	1406.3	1243.4	1199.7	1213.2	1218.6	1246.6	1275.0	1255.2
42.5°	1878.7	1820.0	1727.1	1422.1	1286.8	1293.5	1297.6	1321.9	1362.1	1346.3
45°	2204.0	2182.8	2088.0	1727.1	1449.6	1416.2	1421.2	1433.8	1492.9	1487.1
47.5°	2454.0	2441.8	2368.7	2077.2	1724.9	1566.5	1580.5	1586.3	1671.6	1692.4
50°	2646.2	2641.6	2576.2	2388.5	2084.4	1788.0	1793.0	1780.3	1908.0	1959.5
52.5°	2827.5	2842.9	2794.6	2677.7	2468.4	2078.1	2077.2	2017.7	2190.0	2267.6
55°	2991.3	2996.7	3001.7	2972.8	2854.6	2408.4	2399.8	2302.4	2517.1	2597.4
57.5°	3145.2	3147.4	3191.6	3250.7	3256.6	2763.0	2747.2	2630.4	2874.5	2931.8
60°	3248.5	3258.9	3352.2	3516.5	3588.2	3128.9	3120.3	3001.2	3238.1	3264.7
62.5°	3099.6	3162.8	3398.3	3724.0	3901.3	3534.5	3530.5	3418.6	3620.7	3599.0
65°	2509.0	2615.9	3030.1	3864.3	4208.6	3987.5	3993.4	3874.3	4013.7	3943.3
67.5°	1755.1	1867.9	2357.9	3875.6	4551.9	4519.4	4553.3	4366.5	4431.0	4273.1
70°	1213.7	1271.9	1590.9	3632.9	4819.5	5252.2	5251.3	4971.1	4846.1	4423.3
72.5°	816.2	846.4	1033.2	2882.1	4622.8	5687.5	5661.4	5433.1	4986.0	4136.8
75°	344.2	366.4	478.2	1619.7	3657.2	5203.4	5132.6	4801.4	4430.1	3257.5
77.5°	109.2	118.7	188.6	579.8	2014.5	3911.3	3836.4	2998.5	2969.2	1634.2
80°	51.9	60.5	106.0	232.8	792.7	2127.3	2116.9	1360.3	1277.3	441.3
82.5°	22.6	26.6	58.7	124.5	354.6	758.9	774.2	462.9	383.0	167.4
85°	7.2	9.5	27.1	57.3	149.8	188.6	186.3	110.1	154.3	91.1
87.5°	0.0	0.0	9.0	13.1	15.3	10.8	12.2	9.5	42.9	25.3
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°
724.1	0°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
733.2	2.5°	727.7	720.5	707.9	696.2	685.8	675.4	669.1	660.1	659.2	659.2
744.9	5°	732.7	721.0	698.4	674.5	647.0	620.8	594.7	569.4	561.3	555.4
763.8	7.5°	747.1	728.7	693.0	647.4	595.1	537.8	497.6	454.3	437.6	428.6
789.1	10°	767.9	742.6	688.5	608.6	523.8	445.8	388.5	341.5	323.5	315.8
816.6	12.5°	790.9	759.8	680.4	560.4	445.8	352.4	296.4	274.8	272.1	272.1
849.6	15°	818.4	780.5	666.4	503.5	364.1	278.8	259.0	259.9	262.6	264.4
881.6	17.5°	846.9	802.6	644.3	439.9	291.9	250.9	251.3	252.7	254.9	256.7
916.3	20°	877.5	824.8	615.0	372.2	250.4	242.7	244.1	245.4	247.2	248.1
948.8	22.5°	910.5	845.5	580.2	305.9	236.4	236.0	236.4	237.8	240.0	240.0
986.7	25°	945.7	868.5	540.5	257.6	229.2	229.2	230.1	231.0	232.8	232.8
1023.3	27.5°	981.8	889.7	498.6	232.4	222.9	222.4	222.4	223.8	224.7	225.1
1059.4	30°	1021.5	914.5	456.6	226.9	217.9	215.7	214.3	215.2	216.1	216.6
1097.3	32.5°	1062.1	938.4	419.1	229.2	213.0	208.9	204.4	203.5	203.5	205.3
1136.5	35°	1107.2	964.6	390.3	236.9	210.2	199.0	191.8	187.7	188.1	190.8
1183.4	37.5°	1161.3	996.2	369.1	243.6	208.4	187.7	176.0	171.0	167.8	171.0
1248.0	40°	1232.2	1042.7	353.7	249.0	206.2	174.6	158.8	150.7	144.8	146.6
1348.1	42.5°	1336.4	1115.8	347.9	249.5	201.2	159.3	141.2	130.4	121.8	122.3
1498.8	45°	1482.6	1231.3	378.1	243.6	190.4	142.6	122.7	108.3	102.9	101.5
1723.9	47.5°	1682.9	1399.6	448.0	231.5	174.6	126.3	104.7	92.5	88.4	86.2
2019.5	50°	1951.3	1615.7	525.6	217.9	158.8	111.0	89.8	82.1	79.4	77.2
2370.0	52.5°	2262.7	1834.9	589.2	204.4	143.0	97.5	80.3	75.8	73.5	71.7
2708.4	55°	2548.2	1986.1	585.6	189.9	127.7	86.6	73.5	70.8	68.1	66.3
2999.9	57.5°	2726.0	2007.3	482.8	174.2	110.1	78.1	67.2	65.4	62.3	60.0
3252.1	60°	2807.7	1886.4	338.4	153.4	92.5	69.9	60.5	59.6	55.5	52.3
3490.8	62.5°	2822.6	1661.7	225.6	127.7	77.2	62.3	53.7	52.3	46.9	41.5
3684.8	65°	2762.1	1340.4	156.1	99.7	65.9	54.1	46.0	43.3	37.4	32.0
3730.8	67.5°	2570.8	941.2	108.7	71.7	55.9	42.9	36.5	35.6	31.1	26.6
3496.2	70°	2220.2	536.4	72.6	53.7	44.2	29.3	28.9	29.8	25.3	21.7
2856.4	72.5°	1702.3	245.4	45.1	39.3	30.2	19.9	23.0	23.5	19.4	16.2
1782.2	75°	1002.1	105.1	28.4	25.3	15.3	13.1	16.7	17.1	13.1	10.4
651.5	77.5°	341.1	39.7	18.0	14.9	7.7	7.2	10.8	10.8	7.2	4.1
130.8	80°	77.6	14.9	9.0	5.9	3.6	3.2	3.6	3.2	1.8	0.5
40.2	82.5°	22.1	5.9	3.6	2.3	1.4	1.4	0.5	0.0	0.0	0.0
14.0	85°	6.3	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	2.7	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>
724.1
661.4
558.1
430.0
315.8
272.1
264.4
256.7
248.6
240.9
233.3
225.6
217.5
206.6
192.2
170.1
145.7
120.5
99.7
84.8
76.7
71.3
65.4
59.6
51.4
38.8
30.2
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