

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: P945635

Luminaire Tested: **GALN-SB1C-740-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945635
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-SB1C-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 6383 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

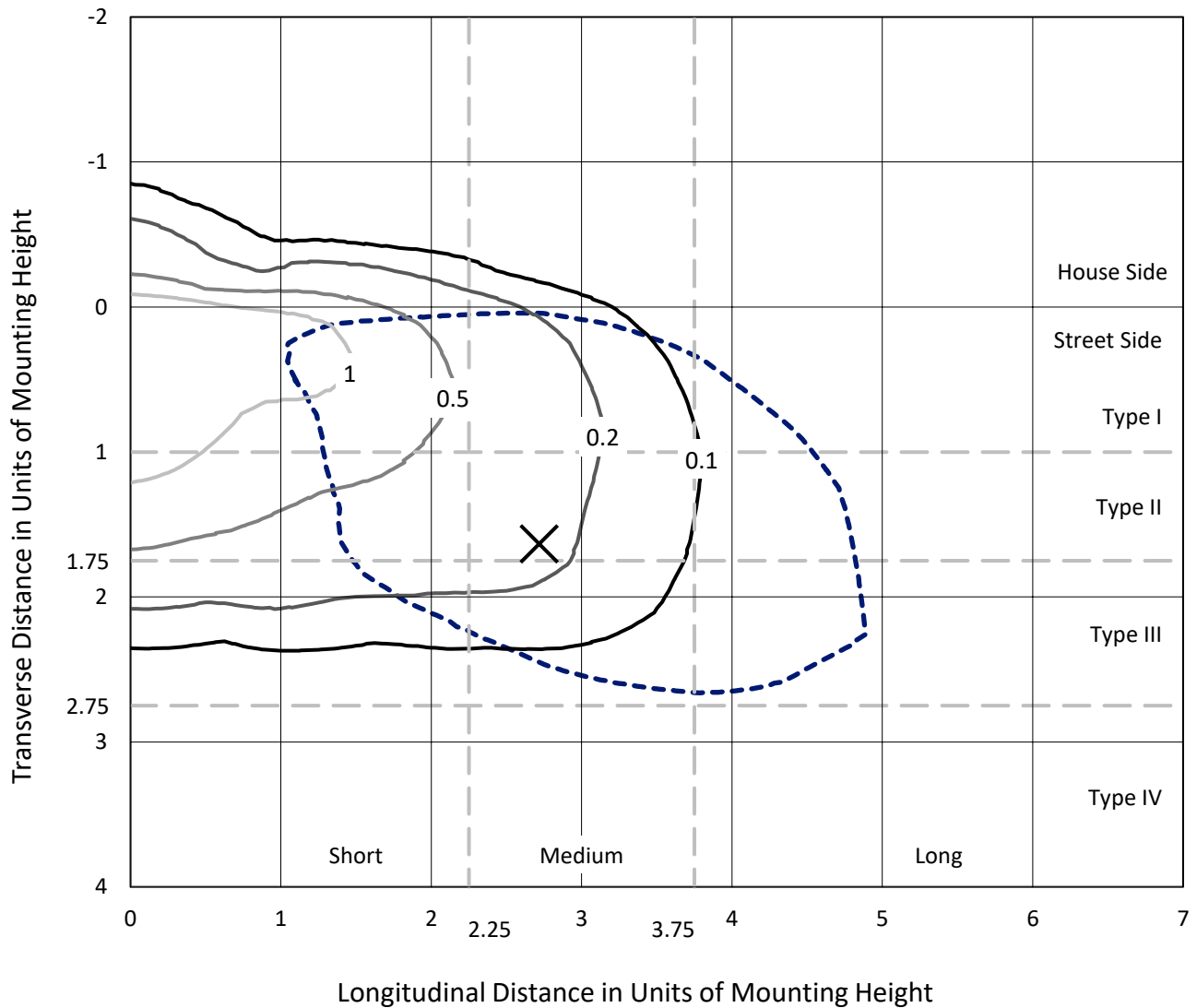
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945635
 CATALOG NUMBER: GALN-SB1C-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

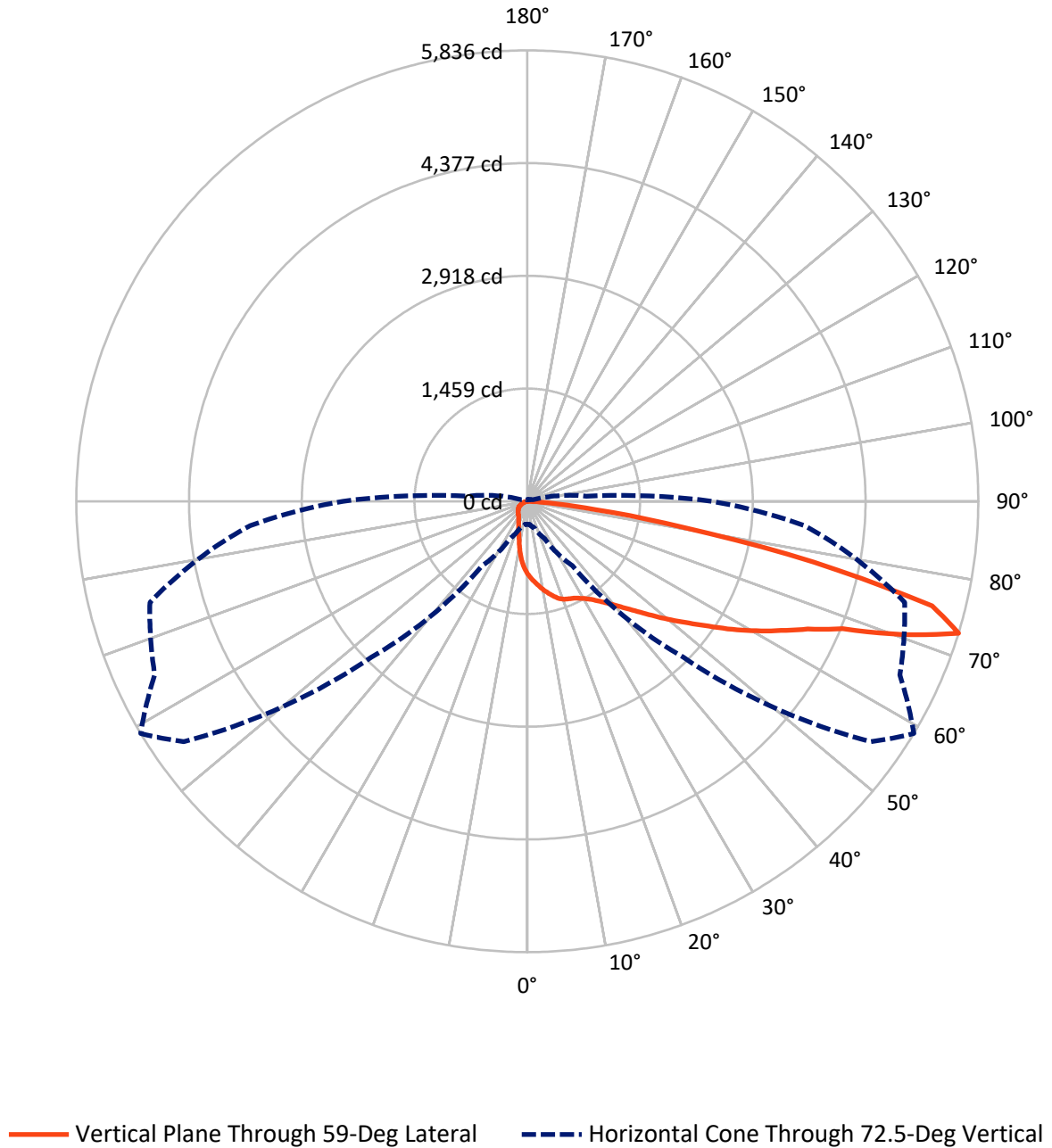
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P945635
CATALOG NUMBER: GALN-SB1C-740-U-SL3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.2	0.0	674.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5708.8	0.0	5708.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	6383.0	0.0	6383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.3
10°-20°	226.8	3.6
20°-30°	359.5	5.6
30°-40°	576.9	9.0
40°-50°	921.4	14.4
50°-60°	1334.1	20.9
60°-70°	1583.3	24.8
70°-80°	1175.4	18.4
80°-90°	120.2	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°	6383.0	100.0
0°-180°	6383.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945635

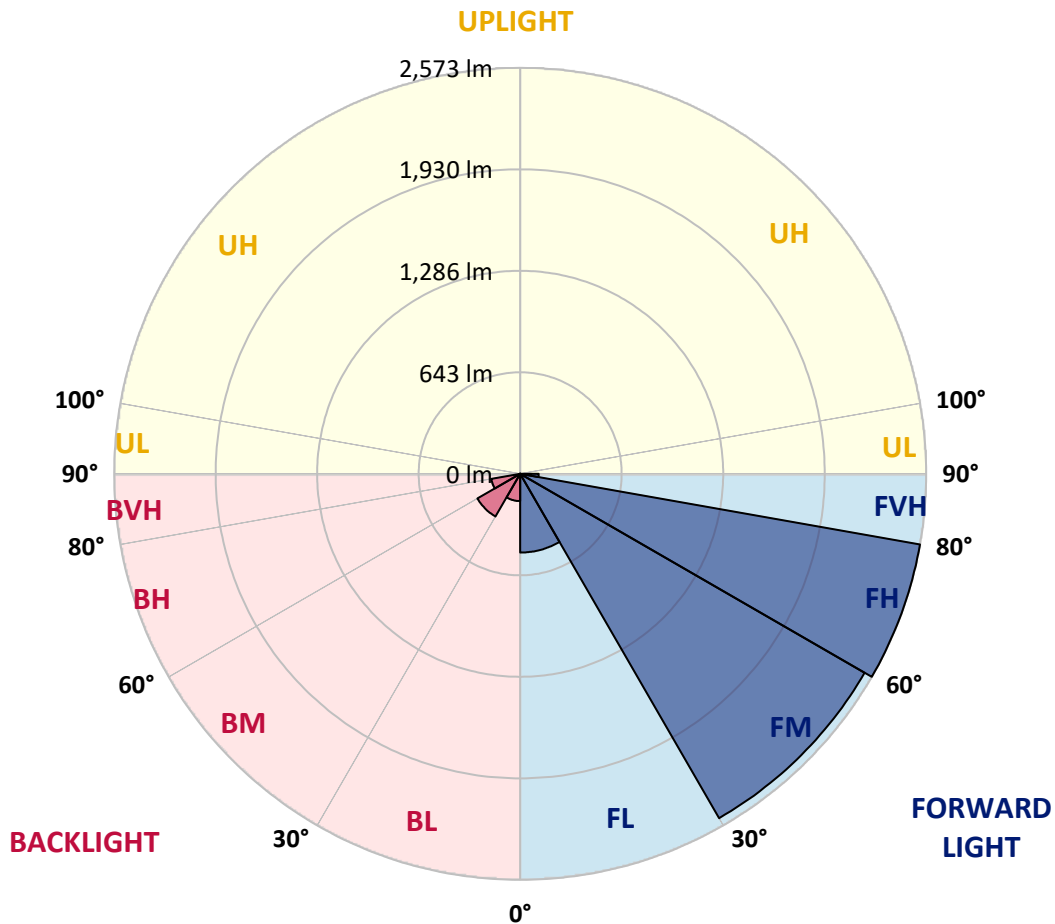
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	7.8			
FM (30°-60°)	2519.9	39.5			
FH (60°-80°)	2572.7	40.3			G2/5000
FVH (80°-90°)	117.2	1.8			G2/225
BL (0°-30°)	172.7	2.7	B1/500		
BM (30°-60°)	312.6	4.9	B1/1000		
BH (60°-80°)	185.9	2.9	B1/500		G1/500
BVH (80°-90°)	3.0	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 III Medium



REPORT NUMBER: P945635
 CATALOG NUMBER: GALN-SB1C-740-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
2.5°	1047.2	1041.4	1042.2	1032.2	1025.2	1017.7	1003.1	1001.0	990.6	972.2
5°	1138.5	1134.8	1131.4	1120.2	1105.6	1087.2	1062.7	1053.9	1034.7	1003.1
7.5°	1205.2	1200.6	1202.3	1191.0	1179.3	1158.9	1125.2	1108.9	1083.5	1035.2
10°	1218.1	1215.6	1226.4	1230.6	1230.6	1217.7	1184.8	1168.5	1131.4	1069.7
12.5°	1145.6	1146.0	1173.1	1205.6	1248.1	1260.2	1238.1	1220.6	1183.9	1106.4
15°	1061.0	1061.4	1087.7	1129.3	1198.9	1268.5	1286.0	1274.8	1236.9	1146.0
17.5°	1010.2	1008.1	1025.6	1059.7	1132.7	1230.6	1315.2	1322.7	1291.9	1189.8
20°	1003.1	999.3	1008.5	1025.6	1077.7	1183.1	1318.5	1354.0	1348.5	1239.4
22.5°	1046.4	1040.6	1035.6	1036.4	1058.5	1143.5	1310.2	1371.5	1406.9	1298.9
25°	1132.3	1123.1	1106.8	1086.0	1081.4	1135.2	1304.4	1390.6	1461.1	1375.2
27.5°	1237.3	1224.4	1193.1	1161.8	1135.2	1158.5	1316.5	1421.0	1522.3	1464.0
30°	1352.7	1336.9	1305.6	1246.4	1203.9	1210.6	1345.2	1461.1	1600.7	1564.4
32.5°	1522.3	1485.6	1431.1	1340.6	1284.4	1266.9	1388.5	1511.9	1697.8	1698.2
35°	1667.8	1647.3	1592.3	1479.8	1364.4	1341.5	1445.6	1583.6	1832.4	1875.3
37.5°	1763.2	1735.3	1686.9	1602.3	1488.6	1418.1	1521.9	1671.5	1974.9	2077.0
40°	1869.9	1842.4	1778.2	1698.6	1632.7	1549.8	1618.2	1772.8	2131.2	2284.1
42.5°	1998.6	1962.8	1887.0	1801.1	1732.3	1723.2	1744.0	1899.0	2291.6	2509.1
45°	2149.9	2116.2	2029.1	1920.7	1860.3	1844.0	1902.4	2046.1	2470.4	2755.8
47.5°	2291.6	2252.4	2158.7	2059.9	1992.8	1941.5	2070.7	2219.9	2672.9	3013.8
50°	2412.0	2372.0	2286.2	2180.7	2135.3	2068.2	2236.2	2413.7	2873.8	3275.9
52.5°	2494.5	2459.1	2358.3	2286.6	2255.8	2222.0	2430.0	2619.1	3073.8	3516.0
55°	2475.8	2444.1	2355.4	2350.4	2348.3	2383.7	2661.7	2852.1	3277.6	3743.1
57.5°	2416.2	2380.4	2269.5	2345.8	2419.5	2527.9	2912.5	3127.6	3500.9	3957.3
60°	2240.8	2228.3	2160.7	2337.0	2449.5	2669.2	3199.2	3404.3	3742.7	4145.6
62.5°	1869.5	1880.3	1879.9	2355.4	2503.7	2830.0	3459.7	3684.3	3978.9	4326.9
65°	1399.8	1437.3	1485.2	2190.3	2576.2	3117.1	3771.0	3988.1	4219.0	4537.8
67.5°	940.6	970.6	1003.1	1796.9	2360.4	3418.9	4288.2	4404.4	4506.5	4771.6
70°	538.4	548.0	593.4	1122.3	1819.4	3335.5	5130.4	5172.5	4935.3	5059.5
72.5°	301.7	298.4	358.4	532.6	1016.8	2856.3	5425.4	5835.9	5319.1	5054.9
75°	201.7	202.1	246.7	335.9	396.3	1999.5	4675.3	5411.2	5089.1	4482.3
77.5°	137.5	142.1	181.3	259.6	183.4	975.6	3093.0	3790.6	4120.2	3461.4
80°	59.6	60.0	119.6	186.3	123.8	310.5	1603.6	2030.7	2584.1	1943.6
82.5°	30.8	35.0	76.3	120.4	77.9	108.8	757.6	887.2	1084.3	570.5
85°	10.8	12.9	47.1	59.2	39.2	38.8	263.8	268.8	229.6	85.8
87.5°	0.0	2.1	18.3	14.6	5.0	4.6	31.3	26.3	20.8	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945635
 CATALOG NUMBER: GALN-SB1C-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
943.9	0°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
953.5	2.5°	944.7	933.5	915.1	892.6	866.4	852.2	831.8	819.3	808.0	808.5
966.4	5°	946.0	927.2	880.6	831.0	776.0	735.5	690.5	658.9	634.7	628.8
979.7	7.5°	949.7	918.1	841.8	759.3	667.6	599.7	537.6	498.4	476.3	470.5
993.5	10°	954.7	908.1	798.0	671.8	558.0	476.3	424.6	399.6	389.6	382.1
1011.0	12.5°	958.9	897.6	743.0	581.3	460.5	396.7	357.6	336.7	328.0	322.5
1031.4	15°	966.0	883.9	683.4	497.2	394.6	342.6	305.5	290.0	287.5	288.4
1053.9	17.5°	973.1	870.5	616.8	431.3	346.3	295.0	272.5	270.0	273.4	276.7
1079.7	20°	981.0	851.4	549.3	381.7	301.7	262.1	256.3	258.0	259.6	265.5
1115.2	22.5°	992.7	827.2	490.1	339.6	264.6	246.3	243.4	244.6	245.9	251.7
1161.8	25°	1009.3	801.4	442.2	300.9	241.3	233.4	230.5	230.5	232.1	237.5
1216.0	27.5°	1026.8	764.7	403.4	265.0	227.5	219.2	214.2	214.2	216.3	222.5
1283.9	30°	1046.4	731.4	373.0	238.4	215.9	205.0	198.4	196.7	199.2	207.1
1382.3	32.5°	1081.8	709.7	351.3	225.9	205.4	192.1	182.9	178.4	180.9	190.0
1519.8	35°	1135.6	704.7	336.3	219.6	195.4	180.4	167.5	160.4	162.5	172.1
1689.4	37.5°	1198.5	715.1	321.7	211.3	185.9	169.2	152.1	142.9	146.3	155.0
1883.2	40°	1288.9	758.4	310.5	205.0	176.3	155.9	136.7	127.5	132.9	140.4
2084.9	42.5°	1398.1	835.5	307.5	199.2	164.6	141.7	122.5	115.9	120.0	127.1
2288.7	45°	1533.6	933.9	320.9	191.7	151.7	127.9	111.3	107.5	108.8	115.9
2481.2	47.5°	1679.0	1034.7	357.6	185.0	140.4	116.7	102.5	99.2	98.3	105.0
2657.1	50°	1826.1	1124.3	400.9	180.0	132.5	107.5	95.8	91.7	89.6	93.8
2830.8	52.5°	1971.6	1195.6	429.2	171.7	124.6	98.3	90.0	83.8	80.0	82.1
3003.8	55°	2119.1	1258.1	430.9	159.2	117.1	92.5	84.2	77.1	72.5	72.5
3170.5	57.5°	2257.0	1313.1	406.3	142.5	106.7	87.1	76.3	70.4	65.4	63.8
3318.4	60°	2379.1	1354.0	365.5	123.8	97.5	80.0	68.3	63.8	57.5	54.2
3450.1	62.5°	2487.9	1374.0	309.6	104.6	86.3	71.7	60.8	55.8	47.5	43.3
3583.9	65°	2580.0	1353.5	251.3	86.7	76.7	62.5	52.1	47.1	37.9	32.9
3734.3	67.5°	2671.2	1260.2	190.0	72.9	66.7	52.5	42.9	38.3	31.7	27.5
3843.9	70°	2682.9	1063.9	132.9	61.3	55.4	40.4	34.6	31.7	25.8	22.1
3599.3	72.5°	2388.3	765.5	80.8	50.0	43.3	28.8	27.5	25.0	19.2	16.7
2940.9	75°	1909.0	469.2	47.5	37.5	28.8	20.4	20.4	17.9	12.9	10.8
2030.3	77.5°	1319.4	245.5	27.9	24.2	17.1	12.1	13.3	10.8	6.3	5.0
804.3	80°	528.4	93.3	15.0	11.3	7.9	5.4	4.6	2.5	1.3	0.8
165.0	82.5°	105.4	24.6	5.0	2.9	2.9	1.3	0.0	0.0	0.0	0.0
45.4	85°	27.1	5.4	1.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	8.3	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>
943.9
817.6
637.6
476.3
386.7
325.5
289.6
278.0
267.1
253.4
239.6
225.0
209.2
192.5
175.0
157.5
141.7
128.4
119.2
109.2
95.4
83.8
73.3
64.2
53.3
42.9
32.9
27.5
21.7
16.3
10.8
5.0
1.3
0.0
0.0
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0.0

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