

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: P945299

Luminaire Tested: **GALN-SB1B-750-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945299
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-SB1B-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA 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: 4799 lumens
Efficiency: N/A
Efficacy: 120.6 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

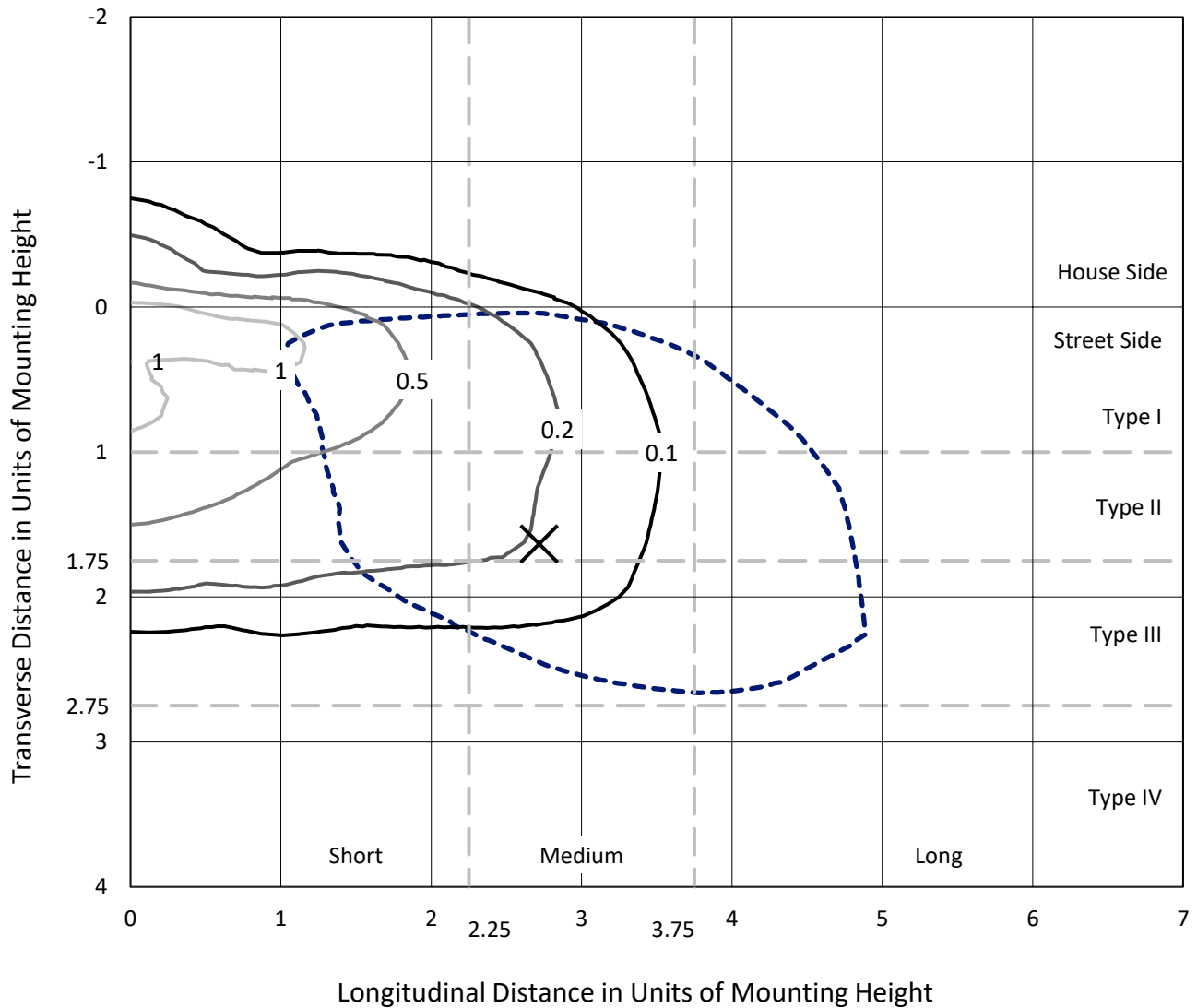
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

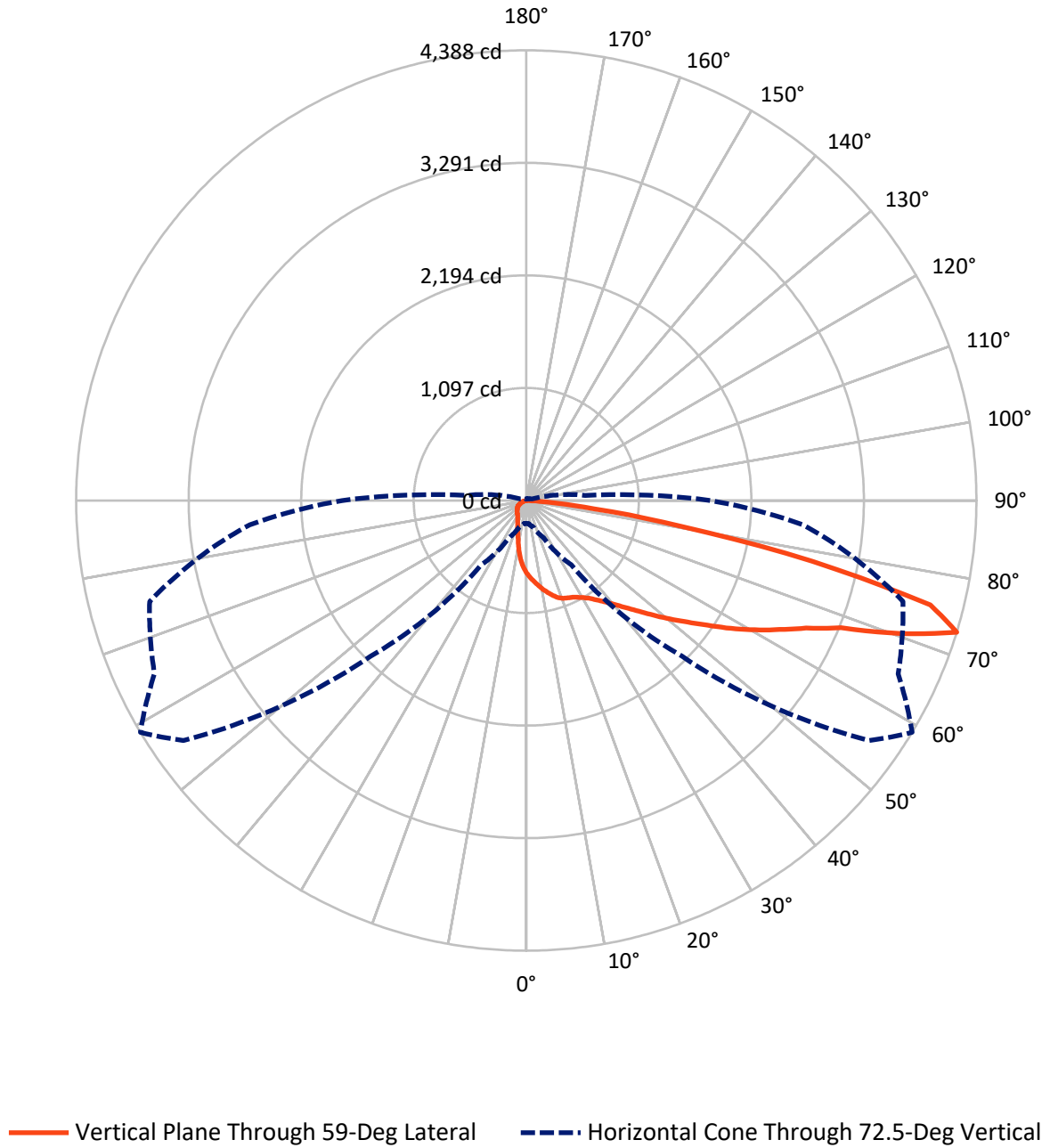
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.9	0.0	506.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4292.1	0.0	4292.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	4799.0	0.0	4799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.3
10°-20°	170.5	3.6
20°-30°	270.3	5.6
30°-40°	433.8	9.0
40°-50°	692.8	14.4
50°-60°	1003.1	20.9
60°-70°	1190.4	24.8
70°-80°	883.7	18.4
80°-90°	90.3	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°	4799.0	100.0
0°-180°	4799.0	100.0

Coefficient of Utilization



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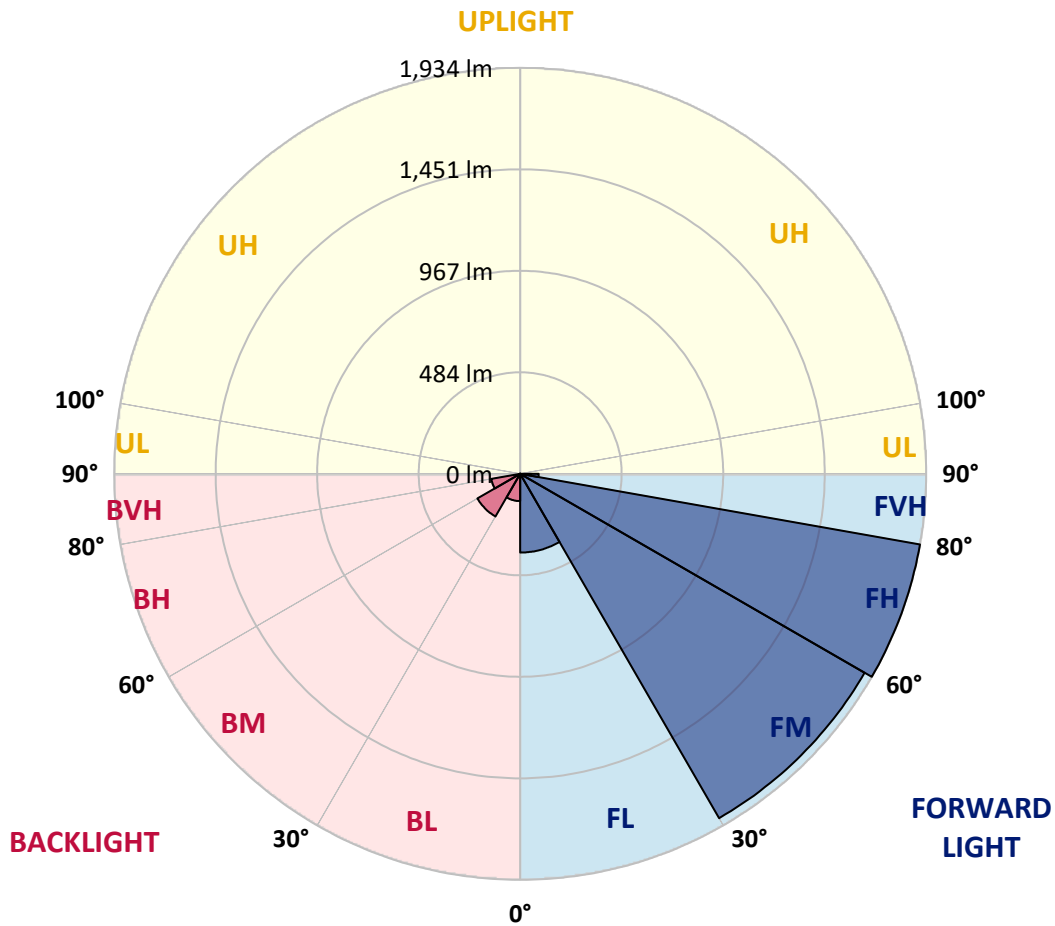
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.2	7.8			
FM (30°-60°)	1894.6	39.5			
FH (60°-80°)	1934.3	40.3			G2/5000
FVH (80°-90°)	88.1	1.8			G1/100
BL (0°-30°)	129.8	2.7	B1/500		
BM (30°-60°)	235.0	4.9	B1/1000		
BH (60°-80°)	139.8	2.9	B1/500		G1/500
BVH (80°-90°)	2.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
2.5°	787.4	783.0	783.6	776.1	770.8	765.1	754.1	752.6	744.7	731.0
5°	856.0	853.2	850.6	842.2	831.2	817.4	799.0	792.4	778.0	754.1
7.5°	906.1	902.7	903.9	895.5	886.7	871.3	845.9	833.7	814.6	778.3
10°	915.8	913.9	922.1	925.2	925.2	915.5	890.8	878.5	850.6	804.3
12.5°	861.3	861.6	882.0	906.4	938.4	947.5	930.9	917.7	890.1	831.9
15°	797.7	798.0	817.8	849.1	901.4	953.7	966.9	958.4	929.9	861.6
17.5°	759.5	757.9	771.1	796.8	851.6	925.2	988.8	994.5	971.3	894.5
20°	754.1	751.3	758.2	771.1	810.2	889.5	991.3	1018.0	1013.9	931.8
22.5°	786.7	782.3	778.6	779.2	795.8	859.7	985.1	1031.1	1057.8	976.6
25°	851.3	844.4	832.2	816.5	813.1	853.5	980.7	1045.5	1098.5	1033.9
27.5°	930.2	920.5	897.0	873.5	853.5	871.0	989.8	1068.4	1144.5	1100.7
30°	1017.0	1005.1	981.6	937.1	905.2	910.2	1011.4	1098.5	1203.4	1176.2
32.5°	1144.5	1117.0	1075.9	1007.9	965.6	952.5	1044.0	1136.7	1276.4	1276.8
35°	1253.9	1238.5	1197.2	1112.6	1025.8	1008.6	1086.9	1190.6	1377.6	1409.9
37.5°	1325.6	1304.6	1268.3	1204.7	1119.2	1066.2	1144.2	1256.7	1484.8	1561.6
40°	1405.8	1385.2	1336.9	1277.1	1227.6	1165.2	1216.6	1332.8	1602.3	1717.3
42.5°	1502.7	1475.7	1418.7	1354.1	1302.4	1295.6	1311.2	1427.8	1722.9	1886.5
45°	1616.4	1591.0	1525.5	1444.1	1398.6	1386.4	1430.3	1538.4	1857.3	2072.0
47.5°	1722.9	1693.5	1623.0	1548.7	1498.3	1459.7	1556.9	1669.0	2009.6	2265.9
50°	1813.5	1783.4	1718.8	1639.6	1605.4	1555.0	1681.2	1814.7	2160.6	2463.0
52.5°	1875.5	1848.9	1773.0	1719.2	1696.0	1670.6	1826.9	1969.2	2311.0	2643.4
55°	1861.4	1837.6	1770.9	1767.1	1765.5	1792.2	2001.1	2144.3	2464.2	2814.2
57.5°	1816.6	1789.7	1706.3	1763.6	1819.1	1900.6	2189.8	2351.4	2632.2	2975.2
60°	1684.7	1675.3	1624.5	1757.1	1841.7	2006.8	2405.3	2559.5	2813.9	3116.9
62.5°	1405.5	1413.7	1413.4	1770.9	1882.4	2127.7	2601.1	2770.0	2991.5	3253.1
65°	1052.4	1080.6	1116.7	1646.8	1936.9	2343.6	2835.2	2998.4	3172.0	3411.7
67.5°	707.2	729.7	754.1	1351.0	1774.6	2570.4	3224.0	3311.4	3388.2	3587.5
70°	404.8	412.0	446.2	843.8	1367.9	2507.8	3857.2	3888.9	3710.6	3804.0
72.5°	226.8	224.3	269.5	400.4	764.5	2147.5	4079.0	4387.7	3999.1	3800.5
75°	151.6	152.0	185.5	252.5	298.0	1503.3	3515.1	4068.4	3826.2	3370.0
77.5°	103.4	106.8	136.3	195.2	137.9	733.5	2325.4	2849.9	3097.7	2602.4
80°	44.8	45.1	89.9	140.1	93.1	233.4	1205.6	1526.8	1942.9	1461.3
82.5°	23.2	26.3	57.3	90.5	58.6	81.8	569.6	667.0	815.2	428.9
85°	8.1	9.7	35.4	44.5	29.5	29.1	198.3	202.1	172.6	64.5
87.5°	0.0	1.6	13.8	11.0	3.8	3.4	23.5	19.7	15.7	9.1
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°
709.7	0°	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
716.9	2.5°	710.3	701.8	688.0	671.1	651.4	640.7	625.4	616.0	607.5	607.8
726.6	5°	711.2	697.1	662.0	624.7	583.4	553.0	519.2	495.4	477.2	472.8
736.6	7.5°	714.0	690.2	632.9	570.9	501.9	450.9	404.2	374.7	358.1	353.7
746.9	10°	717.8	682.7	600.0	505.1	419.5	358.1	319.3	300.5	292.9	287.3
760.1	12.5°	720.9	674.9	558.6	437.1	346.2	298.3	268.8	253.2	246.6	242.5
775.5	15°	726.3	664.5	513.8	373.8	296.7	257.5	229.7	218.1	216.2	216.8
792.4	17.5°	731.6	654.5	463.7	324.3	260.4	221.8	204.9	203.0	205.5	208.0
811.8	20°	737.5	640.1	412.9	287.0	226.8	197.1	192.7	193.9	195.2	199.6
838.4	22.5°	746.3	621.9	368.5	255.4	199.0	185.2	183.0	183.9	184.9	189.2
873.5	25°	758.8	602.5	332.4	226.2	181.4	175.5	173.3	173.3	174.5	178.6
914.3	27.5°	772.0	574.9	303.3	199.3	171.1	164.8	161.0	161.0	162.6	167.3
965.3	30°	786.7	549.9	280.4	179.2	162.3	154.2	149.1	147.9	149.8	155.7
1039.3	32.5°	813.4	533.6	264.1	169.8	154.5	144.4	137.5	134.1	136.0	142.9
1142.7	35°	853.8	529.8	252.8	165.1	146.9	135.7	126.0	120.6	122.2	129.4
1270.2	37.5°	901.1	537.6	241.9	158.9	139.7	127.2	114.4	107.5	110.0	116.6
1415.9	40°	969.1	570.2	233.4	154.2	132.5	117.2	102.8	95.9	99.9	105.6
1567.5	42.5°	1051.2	628.2	231.2	149.8	123.8	106.5	92.1	87.1	90.2	95.6
1720.7	45°	1153.0	702.1	241.3	144.1	114.0	96.2	83.7	80.8	81.8	87.1
1865.5	47.5°	1262.3	778.0	268.8	139.1	105.6	87.7	77.1	74.6	73.9	79.0
1997.7	50°	1372.9	845.3	301.4	135.4	99.6	80.8	72.1	68.9	67.4	70.5
2128.3	52.5°	1482.3	898.9	322.7	129.1	93.7	73.9	67.7	63.0	60.2	61.7
2258.4	55°	1593.2	945.9	324.0	119.7	88.0	69.6	63.3	58.0	54.5	54.5
2383.7	57.5°	1696.9	987.3	305.5	107.2	80.2	65.5	57.3	53.0	49.2	47.9
2494.9	60°	1788.7	1018.0	274.8	93.1	73.3	60.2	51.4	47.9	43.2	40.7
2593.9	62.5°	1870.5	1033.0	232.8	78.6	64.9	53.9	45.7	42.0	35.7	32.6
2694.5	65°	1939.7	1017.6	188.9	65.2	57.6	47.0	39.2	35.4	28.5	24.8
2807.6	67.5°	2008.3	947.5	142.9	54.8	50.1	39.5	32.3	28.8	23.8	20.7
2890.0	70°	2017.1	799.9	99.9	46.1	41.7	30.4	26.0	23.8	19.4	16.6
2706.1	72.5°	1795.6	575.6	60.8	37.6	32.6	21.6	20.7	18.8	14.4	12.5
2211.1	75°	1435.3	352.8	35.7	28.2	21.6	15.4	15.4	13.5	9.7	8.1
1526.5	77.5°	992.0	184.5	21.0	18.2	12.8	9.1	10.0	8.1	4.7	3.8
604.7	80°	397.3	70.2	11.3	8.5	6.0	4.1	3.4	1.9	0.9	0.6
124.1	82.5°	79.3	18.5	3.8	2.2	2.2	0.9	0.0	0.0	0.0	0.0
34.2	85°	20.4	4.1	0.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	6.3	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>
709.7
614.7
479.4
358.1
290.8
244.7
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209.0
200.8
190.5
180.2
169.2
157.3
144.8
131.6
118.4
106.5
96.5
89.6
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71.7
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55.1
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