

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: P945864

Luminaire Tested: **GALN-SB1C-940-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

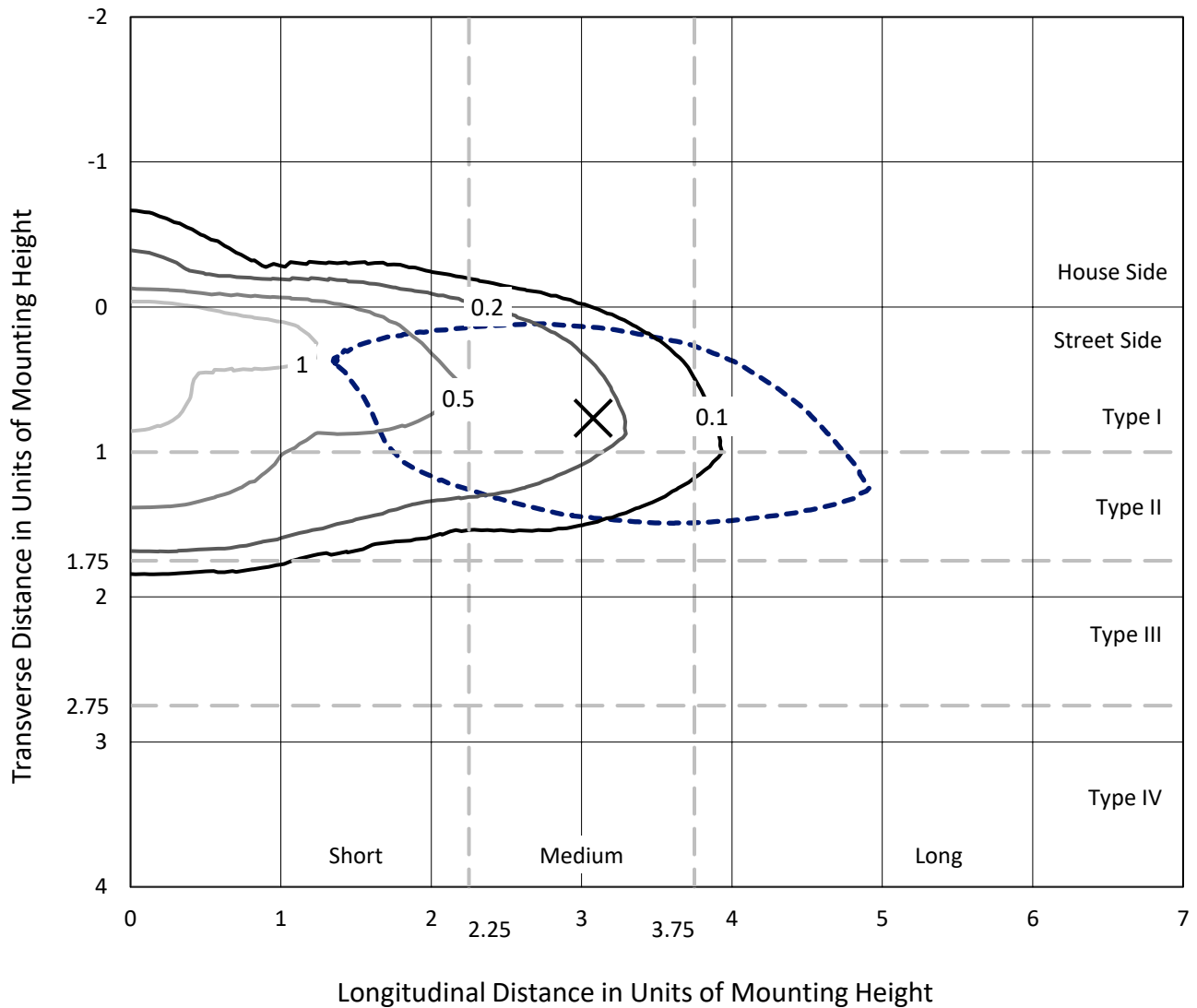
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

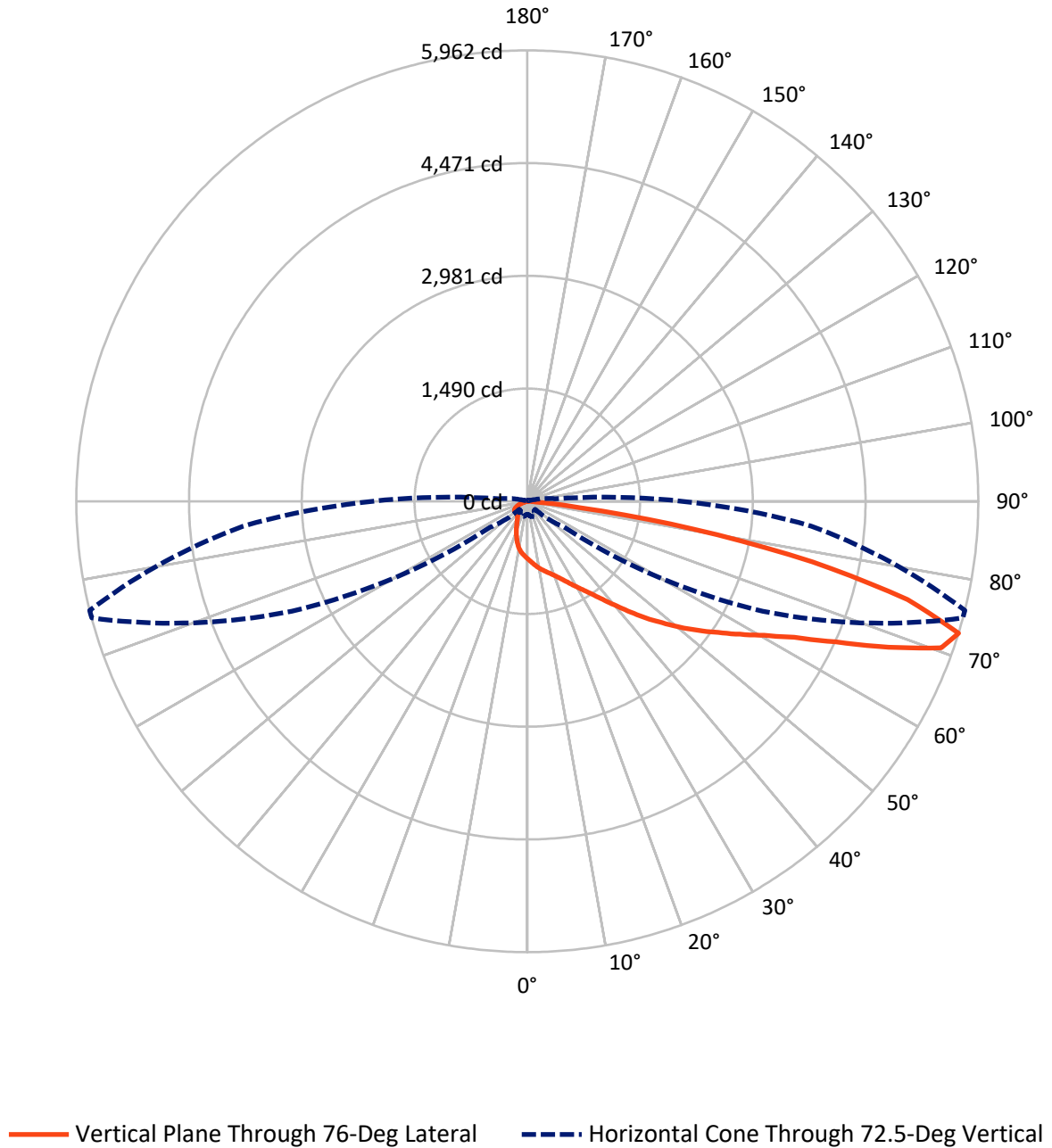
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	450.3	0.0	450.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3949.7	0.0	3949.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	4400.0	0.0	4400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.6
10°-20°	185.4	4.2
20°-30°	293.5	6.7
30°-40°	454.1	10.3
40°-50°	689.6	15.7
50°-60°	950.7	21.6
60°-70°	1004.4	22.8
70°-80°	689.0	15.7
80°-90°	64.1	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°	4400.0	100.0
0°-180°	4400.0	100.0

Coefficient of Utilization



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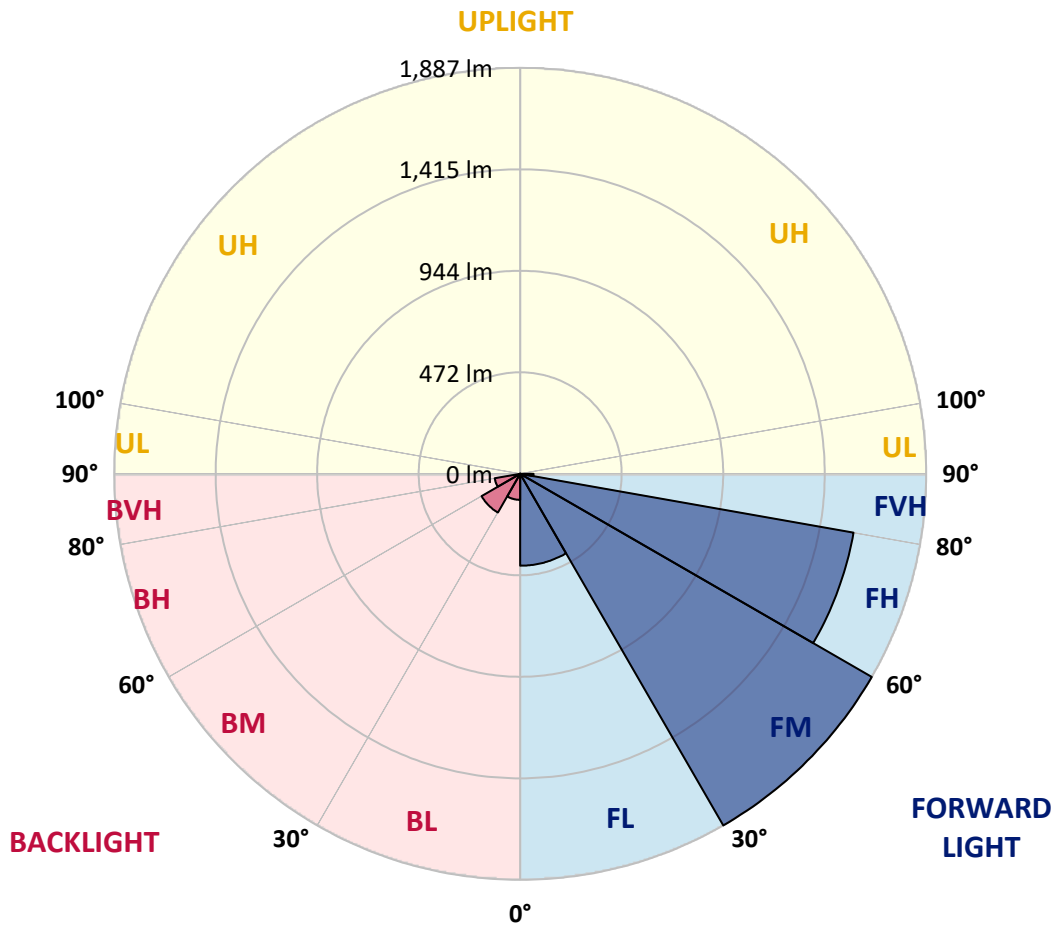
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.0	9.7			
FM (30°-60°)	1887.1	42.9			
FH (60°-80°)	1573.2	35.8			G1/1800
FVH (80°-90°)	62.4	1.4			G1/100
BL (0°-30°)	121.0	2.8	B1/500		
BM (30°-60°)	207.3	4.7	B0/220		
BH (60°-80°)	120.2	2.7	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4
2.5°	883.9	872.2	874.5	862.8	857.4	844.3	830.6	812.6	792.6	792.6
5°	977.0	969.6	969.6	955.9	945.3	924.8	900.2	868.5	830.9	827.1
7.5°	1034.1	1029.5	1032.4	1024.4	1015.8	994.4	965.3	923.9	870.5	866.0
10°	1045.2	1044.9	1052.9	1055.2	1060.9	1050.1	1024.1	976.4	909.6	903.1
12.5°	1002.1	996.7	1016.4	1039.5	1072.0	1086.6	1073.2	1024.4	945.3	936.2
15°	931.3	932.5	951.3	987.0	1041.2	1093.2	1110.6	1071.2	981.6	970.7
17.5°	890.8	886.5	902.8	934.7	994.7	1068.0	1128.0	1114.8	1020.1	1007.8
20°	885.9	885.7	889.4	903.9	949.6	1032.1	1126.0	1157.4	1065.5	1051.2
22.5°	919.6	919.1	915.9	913.1	925.6	997.0	1117.4	1197.9	1119.7	1104.3
25°	971.3	970.4	965.6	948.2	935.9	978.1	1109.4	1235.6	1183.9	1166.8
27.5°	1034.4	1033.8	1024.9	998.7	967.0	979.8	1105.4	1274.4	1258.1	1241.3
30°	1111.7	1110.6	1092.3	1055.2	1013.8	1007.0	1110.9	1318.1	1335.5	1322.6
32.5°	1208.8	1205.6	1181.6	1125.7	1067.8	1043.2	1121.1	1362.9	1427.1	1415.1
35°	1283.8	1279.0	1265.0	1215.6	1130.3	1087.7	1145.1	1416.0	1537.3	1526.7
37.5°	1348.3	1343.5	1332.1	1291.5	1219.9	1144.5	1183.6	1486.8	1667.4	1662.3
40°	1418.0	1410.0	1404.6	1361.2	1296.4	1226.4	1238.7	1569.5	1817.3	1817.8
42.5°	1471.6	1468.5	1469.1	1435.7	1370.3	1323.5	1311.8	1662.9	1996.8	2002.2
45°	1517.6	1515.0	1525.6	1502.2	1444.8	1387.1	1397.4	1768.5	2193.2	2204.3
47.5°	1553.0	1555.8	1571.0	1555.8	1522.1	1432.0	1473.3	1882.3	2399.5	2401.0
50°	1588.4	1589.5	1614.6	1607.2	1593.5	1488.7	1543.3	2009.6	2617.0	2619.6
52.5°	1599.5	1597.8	1637.7	1656.0	1656.6	1559.0	1633.7	2148.4	2830.2	2838.5
55°	1542.4	1547.3	1611.8	1686.0	1715.4	1656.0	1755.9	2323.9	3057.4	3060.8
57.5°	1263.3	1290.1	1432.8	1604.9	1753.3	1795.0	1931.4	2529.1	3319.7	3316.6
60°	766.6	798.6	969.3	1346.0	1629.5	1934.6	2190.0	2847.1	3606.3	3597.4
62.5°	428.7	438.4	492.9	805.7	1239.3	1845.8	2442.6	3255.5	3991.0	3961.1
65°	316.0	319.1	331.9	394.7	609.1	1419.7	2387.3	3743.9	4531.6	4478.2
67.5°	274.6	277.7	290.3	298.8	272.0	745.8	1966.8	4014.7	5218.0	5148.1
70°	231.2	232.9	253.2	258.9	194.7	283.7	1263.6	3931.1	5853.4	5803.4
72.5°	172.4	179.2	208.6	222.3	156.1	150.7	594.8	3437.0	5961.0	5961.6
75°	117.0	123.3	157.0	183.0	120.4	105.6	240.0	2566.5	5190.6	5190.6
77.5°	79.9	85.1	109.3	143.6	91.3	72.5	124.4	1628.9	3723.9	3854.9
80°	35.4	38.5	70.5	104.2	69.4	46.8	70.5	891.9	2252.0	2224.3
82.5°	17.4	20.0	45.1	65.1	44.8	28.8	37.1	424.1	729.8	693.6
85°	3.4	4.6	24.3	27.7	20.8	12.8	14.0	130.4	87.9	100.5
87.5°	0.0	0.0	7.4	5.1	2.3	2.9	2.9	11.7	6.9	8.0
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°
760.4	0°	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4	760.4
773.2	2.5°	762.9	752.4	729.2	706.4	683.0	661.6	646.8	631.9	622.8	618.8
790.3	5°	768.9	747.5	699.0	648.2	598.0	548.9	512.0	477.5	466.7	448.7
810.6	7.5°	778.3	743.5	667.0	581.4	499.8	427.8	375.9	334.5	318.0	302.0
828.0	10°	784.6	736.1	624.8	510.3	399.9	319.1	269.4	239.5	228.6	218.9
844.3	12.5°	787.2	722.4	576.3	430.7	311.1	243.2	213.5	199.5	195.8	192.4
859.7	15°	789.5	709.0	522.0	353.9	245.7	203.5	191.8	187.2	184.7	182.4
875.4	17.5°	791.5	691.9	460.1	287.7	207.5	187.5	181.8	177.0	175.0	172.4
897.9	20°	798.3	675.3	404.7	237.5	186.7	176.1	169.8	164.7	163.0	161.3
929.9	22.5°	811.2	661.9	351.1	203.5	174.1	164.4	156.4	150.7	149.6	148.4
968.7	25°	826.6	645.3	300.5	181.5	161.8	151.0	142.1	137.3	136.1	136.4
1013.5	27.5°	846.3	627.1	257.2	167.5	151.0	138.4	128.4	124.7	125.3	126.4
1065.2	30°	868.0	610.2	223.2	157.8	141.3	127.3	117.3	114.7	116.7	118.4
1134.3	32.5°	900.2	595.4	199.5	150.1	132.7	118.2	110.2	107.0	109.3	111.6
1222.5	35°	944.2	588.0	186.1	143.6	125.3	111.0	103.0	100.8	103.0	103.6
1330.1	37.5°	998.1	587.4	180.4	138.1	118.4	105.0	96.2	95.3	97.0	97.3
1459.4	40°	1067.8	591.1	176.1	134.1	111.3	98.2	89.9	89.1	89.6	91.6
1614.9	42.5°	1156.0	606.5	170.1	129.0	103.6	91.3	84.8	82.8	82.5	84.8
1789.0	45°	1266.7	640.5	162.1	120.7	96.8	85.6	79.1	76.8	75.9	76.5
1968.8	47.5°	1387.4	682.2	154.1	113.0	91.9	81.1	74.5	71.6	70.2	70.2
2136.9	50°	1504.4	729.2	148.7	105.0	88.5	76.8	69.6	66.8	64.5	63.9
2309.9	52.5°	1620.3	775.5	144.4	97.0	84.5	71.4	65.1	61.9	59.4	58.2
2481.2	55°	1725.9	819.4	137.0	89.3	79.3	65.6	60.5	57.4	54.2	52.2
2654.7	57.5°	1827.3	856.0	123.3	81.3	71.4	60.2	55.7	52.2	48.5	46.0
2830.2	60°	1919.4	874.8	106.2	72.8	63.4	54.5	50.2	47.1	42.2	38.0
3002.9	62.5°	1989.7	867.4	87.6	63.1	55.1	49.4	44.0	40.8	35.1	30.0
3209.8	65°	2061.6	826.9	69.9	52.8	48.2	42.5	36.8	33.7	27.1	21.7
3489.8	67.5°	2154.9	740.4	55.1	44.0	41.7	33.7	28.8	26.8	22.3	17.1
3790.4	70°	2214.9	575.1	42.8	35.7	34.3	24.5	22.3	22.0	17.7	13.1
3770.1	72.5°	2050.5	377.0	32.8	27.1	24.5	16.0	17.1	17.1	12.8	8.8
3304.9	75°	1711.7	220.6	23.7	19.4	14.0	10.3	11.7	11.7	8.0	4.3
2355.6	77.5°	1222.5	117.6	15.7	12.0	7.1	4.6	6.3	6.0	2.6	0.3
923.3	80°	467.5	40.5	7.4	4.9	2.0	0.9	0.6	0.3	0.3	0.0
144.1	82.5°	71.4	10.6	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
30.5	85°	12.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	2.9	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>
760.4
619.4
449.8
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147.6
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125.9
117.9
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