

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: P946160

Luminaire Tested: **GALN-SB1D-927-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946160
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-SB1D-927-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA 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: 4990 lumens
Efficiency: N/A
Efficacy: 62.7 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

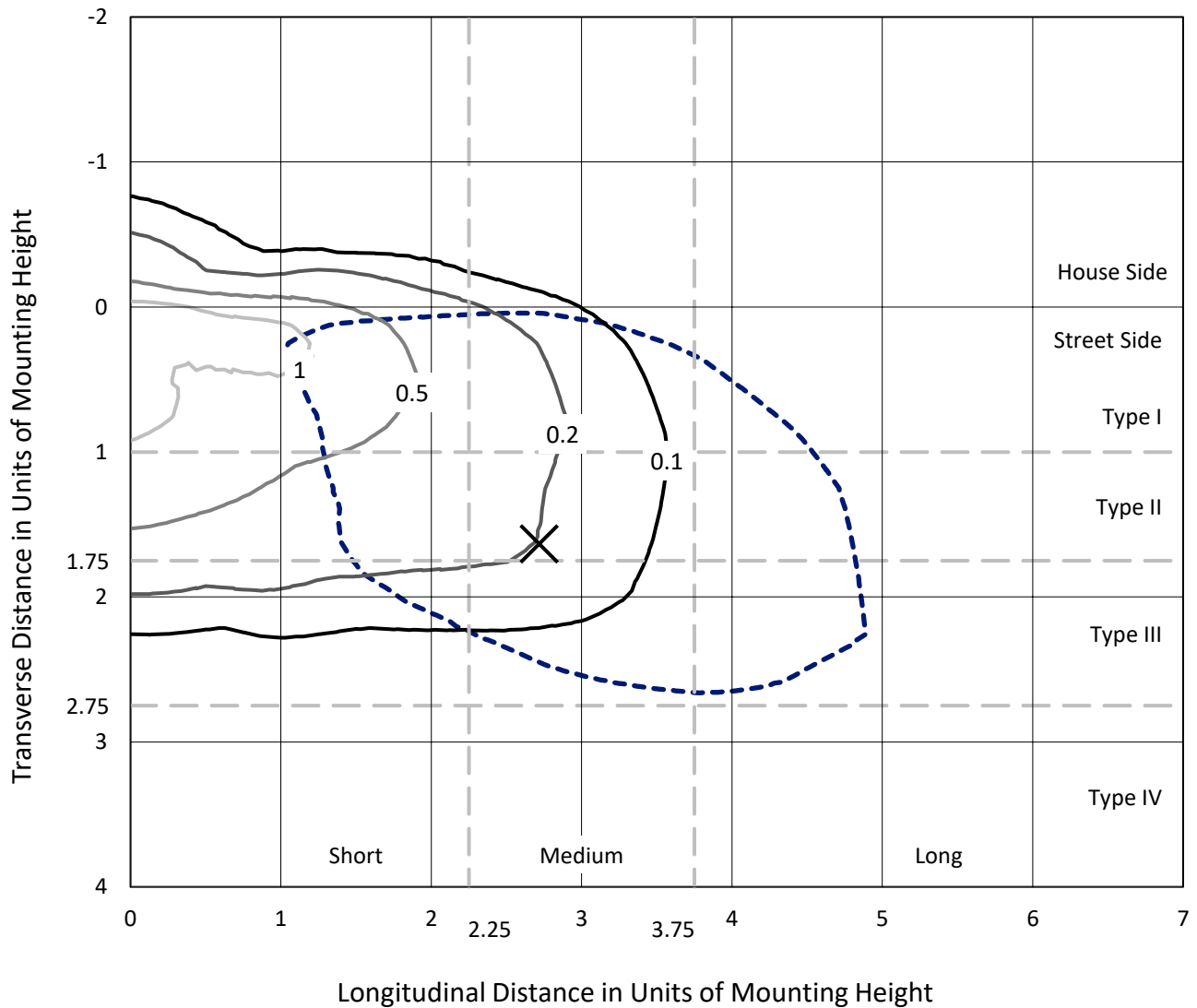
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

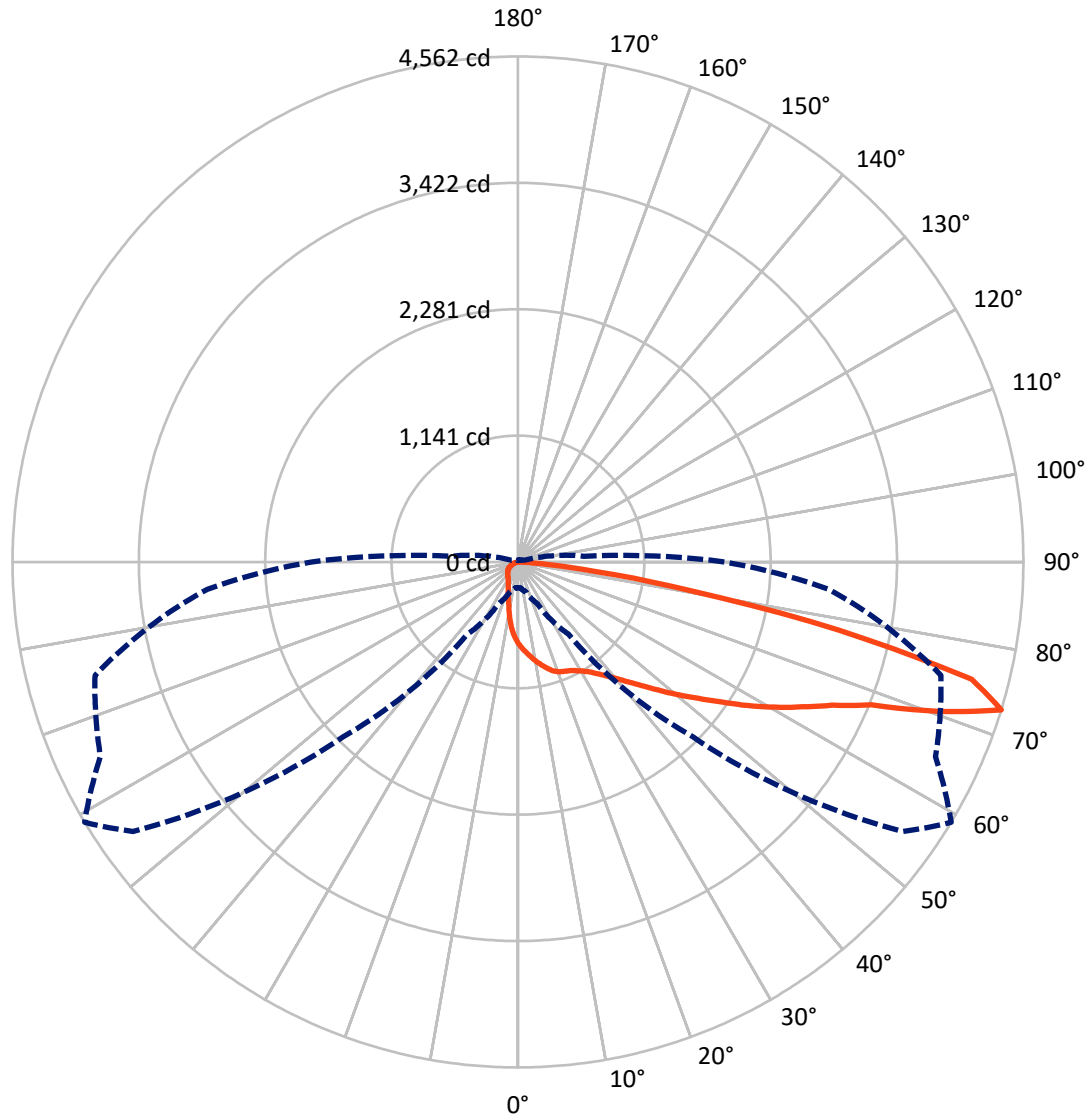
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.1	0.0	527.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4462.9	0.0	4462.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	4990.0	0.0	4990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.3
10°-20°	177.3	3.6
20°-30°	281.0	5.6
30°-40°	451.0	9.0
40°-50°	720.4	14.4
50°-60°	1043.0	20.9
60°-70°	1237.7	24.8
70°-80°	918.9	18.4
80°-90°	93.9	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°	4990.0	100.0
0°-180°	4990.0	100.0

Coefficient of Utilization



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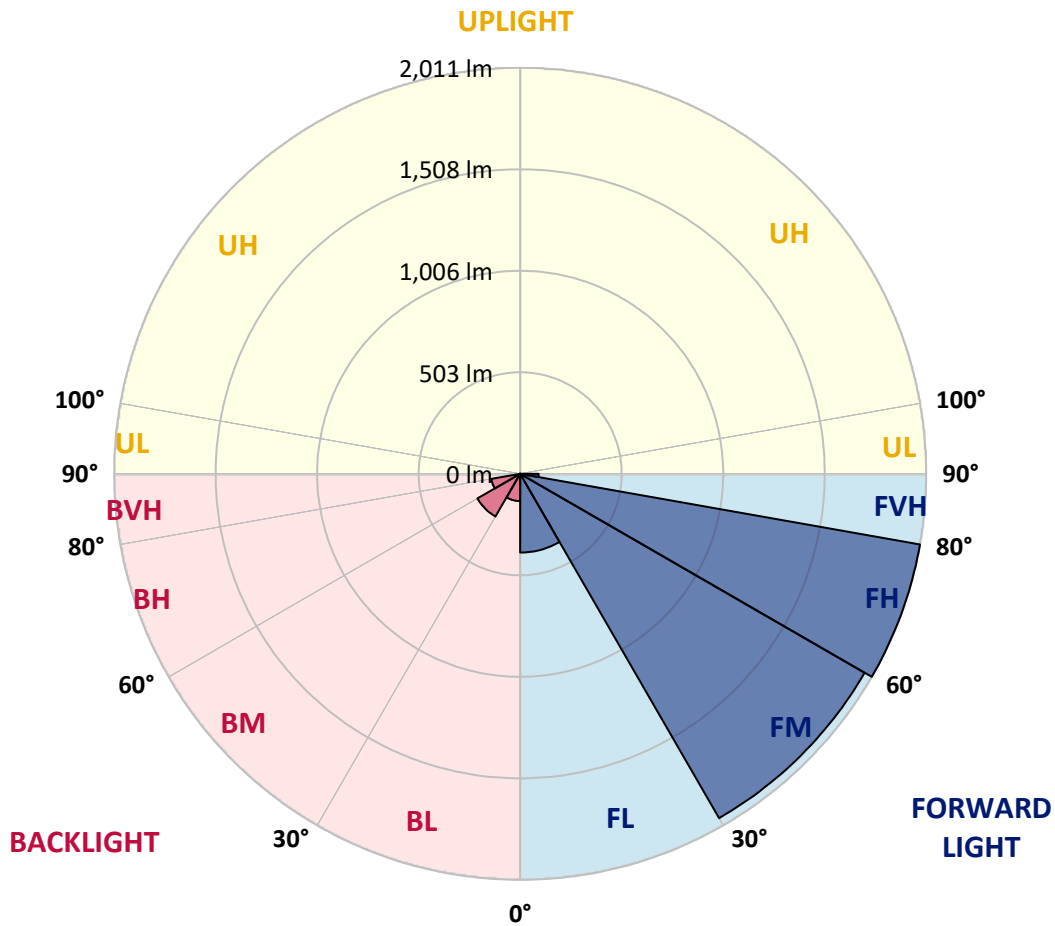
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.1	7.8			
FM (30°-60°)	1970.0	39.5			
FH (60°-80°)	2011.3	40.3			G2/5000
FVH (80°-90°)	91.6	1.8			G1/100
BL (0°-30°)	135.0	2.7	B1/500		
BM (30°-60°)	244.4	4.9	B1/1000		
BH (60°-80°)	145.3	2.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9
2.5°	818.7	814.1	814.8	807.0	801.4	795.6	784.2	782.5	774.4	760.1
5°	890.0	887.1	884.5	875.7	864.3	850.0	830.8	823.9	808.9	784.2
7.5°	942.2	938.6	939.9	931.1	922.0	906.0	879.6	866.9	847.0	809.2
10°	952.3	950.3	958.8	962.0	962.0	951.9	926.2	913.5	884.5	836.3
12.5°	895.6	895.9	917.1	942.5	975.7	985.2	967.9	954.2	925.6	865.0
15°	829.4	829.8	850.3	882.9	937.3	991.7	1005.4	996.6	966.9	895.9
17.5°	789.7	788.1	801.8	828.5	885.5	962.0	1028.2	1034.0	1009.9	930.1
20°	784.2	781.2	788.4	801.8	842.5	924.9	1030.8	1058.5	1054.2	968.9
22.5°	818.0	813.5	809.6	810.2	827.5	894.0	1024.3	1072.2	1099.8	1015.5
25°	885.2	878.0	865.3	849.0	845.4	887.4	1019.7	1087.1	1142.2	1075.1
27.5°	967.3	957.2	932.7	908.3	887.4	905.7	1029.2	1110.9	1190.1	1144.5
30°	1057.5	1045.1	1020.7	974.4	941.2	946.4	1051.6	1142.2	1251.3	1223.0
32.5°	1190.1	1161.4	1118.7	1048.0	1004.1	990.4	1085.5	1181.9	1327.2	1327.6
35°	1303.8	1287.8	1244.8	1156.9	1066.6	1048.7	1130.1	1238.0	1432.5	1466.0
37.5°	1378.4	1356.6	1318.8	1252.6	1163.7	1108.6	1189.8	1306.7	1543.9	1623.7
40°	1461.8	1440.3	1390.1	1327.9	1276.4	1211.6	1265.0	1385.9	1666.1	1785.6
42.5°	1562.5	1534.4	1475.2	1408.0	1354.3	1347.1	1363.4	1484.6	1791.5	1961.5
45°	1680.7	1654.3	1586.2	1501.5	1454.3	1441.6	1487.2	1599.6	1931.3	2154.4
47.5°	1791.5	1760.9	1687.6	1610.4	1557.9	1517.8	1618.8	1735.5	2089.6	2356.1
50°	1885.6	1854.4	1787.3	1704.8	1669.3	1616.9	1748.2	1886.9	2246.6	2561.0
52.5°	1950.1	1922.5	1843.6	1787.6	1763.5	1737.1	1899.7	2047.6	2403.0	2748.6
55°	1935.5	1910.7	1841.3	1837.4	1835.8	1863.5	2080.8	2229.7	2562.3	2926.2
57.5°	1888.9	1860.9	1774.2	1833.8	1891.5	1976.2	2276.9	2445.0	2736.9	3093.7
60°	1751.7	1742.0	1689.2	1827.0	1915.0	2086.7	2501.0	2661.3	2925.9	3240.9
62.5°	1461.5	1469.9	1469.6	1841.3	1957.3	2212.4	2704.7	2880.3	3110.6	3382.6
65°	1094.3	1123.6	1161.1	1712.3	2014.0	2436.9	2948.0	3117.8	3298.2	3547.5
67.5°	735.3	758.8	784.2	1404.8	1845.2	2672.7	3352.3	3443.2	3523.0	3730.2
70°	420.9	428.4	463.9	877.3	1422.4	2607.6	4010.7	4043.6	3858.3	3955.4
72.5°	235.9	233.3	280.2	416.4	794.9	2232.9	4241.4	4562.3	4158.3	3951.8
75°	157.7	158.0	192.9	262.6	309.8	1563.1	3655.0	4230.3	3978.5	3504.1
77.5°	107.5	111.1	141.7	203.0	143.3	762.7	2418.0	2963.3	3221.0	2706.0
80°	46.6	46.9	93.5	145.6	96.8	242.7	1253.6	1587.5	2020.2	1519.5
82.5°	24.1	27.4	59.6	94.2	60.9	85.0	592.3	693.6	847.7	446.0
85°	8.5	10.1	36.8	46.3	30.6	30.3	206.2	210.1	179.5	67.1
87.5°	0.0	1.6	14.3	11.4	3.9	3.6	24.4	20.5	16.3	9.4
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°
737.9	0°	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9
745.4	2.5°	738.6	729.8	715.4	697.8	677.3	666.2	650.3	640.5	631.7	632.0
755.5	5°	739.5	724.9	688.4	649.6	606.6	575.0	539.8	515.1	496.2	491.6
765.9	7.5°	742.5	717.7	658.1	593.6	521.9	468.8	420.3	389.6	372.4	367.8
776.7	10°	746.4	709.9	623.9	525.2	436.2	372.4	332.0	312.4	304.6	298.7
790.4	12.5°	749.6	701.7	580.9	454.5	360.0	310.1	279.5	263.2	256.4	252.2
806.3	15°	755.2	691.0	534.3	388.7	308.5	267.8	238.8	226.7	224.8	225.4
823.9	17.5°	760.7	680.6	482.2	337.2	270.7	230.7	213.1	211.1	213.7	216.3
844.1	20°	766.9	665.6	429.4	298.4	235.9	204.9	200.4	201.7	203.0	207.5
871.8	22.5°	776.0	646.7	383.1	265.5	206.9	192.5	190.3	191.2	192.2	196.8
908.3	25°	789.1	626.5	345.7	235.2	188.6	182.4	180.2	180.2	181.5	185.7
950.6	27.5°	802.7	597.8	315.4	207.2	177.9	171.4	167.5	167.5	169.1	174.0
1003.7	30°	818.0	571.8	291.6	186.3	168.8	160.3	155.1	153.8	155.7	161.9
1080.6	32.5°	845.7	554.8	274.6	176.6	160.6	150.2	143.0	139.4	141.4	148.6
1188.1	35°	887.8	550.9	262.9	171.7	152.8	141.1	131.0	125.4	127.1	134.5
1320.7	37.5°	937.0	559.0	251.5	165.2	145.3	132.3	118.9	111.7	114.4	121.2
1472.2	40°	1007.7	592.9	242.7	160.3	137.8	121.8	106.9	99.7	103.9	109.8
1629.9	42.5°	1093.0	653.2	240.4	155.7	128.7	110.8	95.8	90.6	93.8	99.4
1789.2	45°	1198.9	730.1	250.9	149.9	118.6	100.0	87.0	84.1	85.0	90.6
1939.7	47.5°	1312.6	808.9	279.5	144.6	109.8	91.2	80.1	77.5	76.9	82.1
2077.2	50°	1427.6	879.0	313.4	140.7	103.6	84.1	74.9	71.7	70.0	73.3
2213.1	52.5°	1541.3	934.7	335.6	134.2	97.4	76.9	70.4	65.5	62.6	64.2
2348.3	55°	1656.6	983.5	336.9	124.4	91.5	72.3	65.8	60.3	56.7	56.7
2478.6	57.5°	1764.4	1026.5	317.6	111.4	83.4	68.1	59.6	55.1	51.1	49.8
2594.2	60°	1859.9	1058.5	285.7	96.8	76.2	62.6	53.4	49.8	45.0	42.4
2697.2	62.5°	1944.9	1074.1	242.1	81.8	67.4	56.0	47.6	43.7	37.1	33.9
2801.7	65°	2016.9	1058.1	196.4	67.8	59.9	48.9	40.7	36.8	29.6	25.7
2919.4	67.5°	2088.3	985.2	148.6	57.0	52.1	41.0	33.6	30.0	24.8	21.5
3005.0	70°	2097.4	831.7	103.9	47.9	43.3	31.6	27.0	24.8	20.2	17.3
2813.8	72.5°	1867.1	598.5	63.2	39.1	33.9	22.5	21.5	19.5	15.0	13.0
2299.1	75°	1492.4	366.8	37.1	29.3	22.5	16.0	16.0	14.0	10.1	8.5
1587.2	77.5°	1031.4	191.9	21.8	18.9	13.4	9.4	10.4	8.5	4.9	3.9
628.8	80°	413.1	73.0	11.7	8.8	6.2	4.2	3.6	2.0	1.0	0.7
129.0	82.5°	82.4	19.2	3.9	2.3	2.3	1.0	0.0	0.0	0.0	0.0
35.5	85°	21.2	4.2	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	6.5	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>
737.9
639.2
498.5
372.4
302.3
254.4
226.4
217.3
208.8
198.1
187.3
175.9
163.5
150.5
136.8
123.1
110.8
100.3
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