

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: P946359

Luminaire Tested: **GALN-SB2A-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7901 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

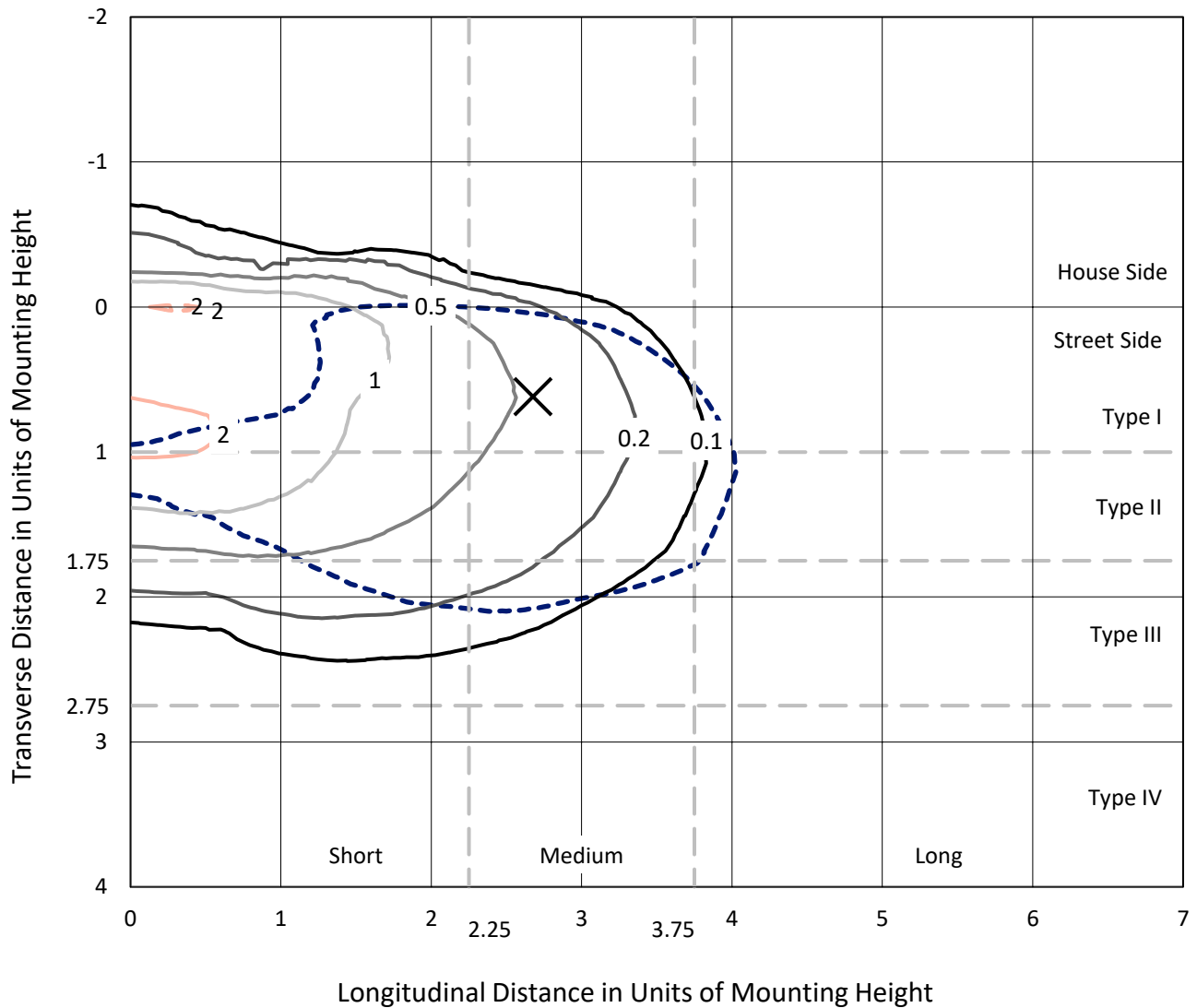
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

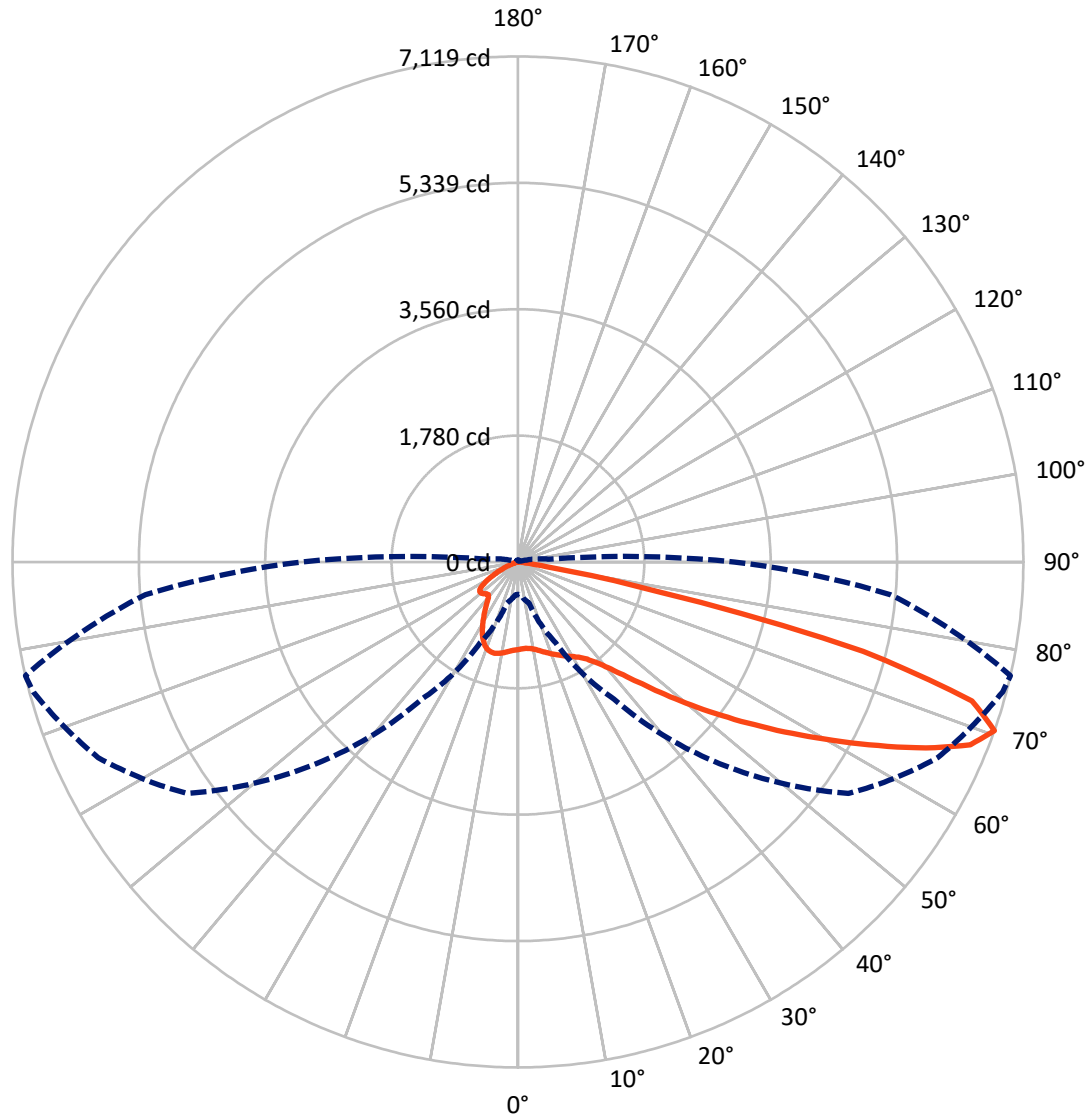
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.9	0.0	832.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7068.1	0.0	7068.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	7901.0	0.0	7901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.3
10°-20°	252.1	3.2
20°-30°	390.0	4.9
30°-40°	707.7	9.0
40°-50°	1335.8	16.9
50°-60°	1930.1	24.4
60°-70°	2054.6	26.0
70°-80°	1088.8	13.8
80°-90°	35.8	0.5
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°	7901.0	100.0
0°-180°	7901.0	100.0

Coefficient of Utilization



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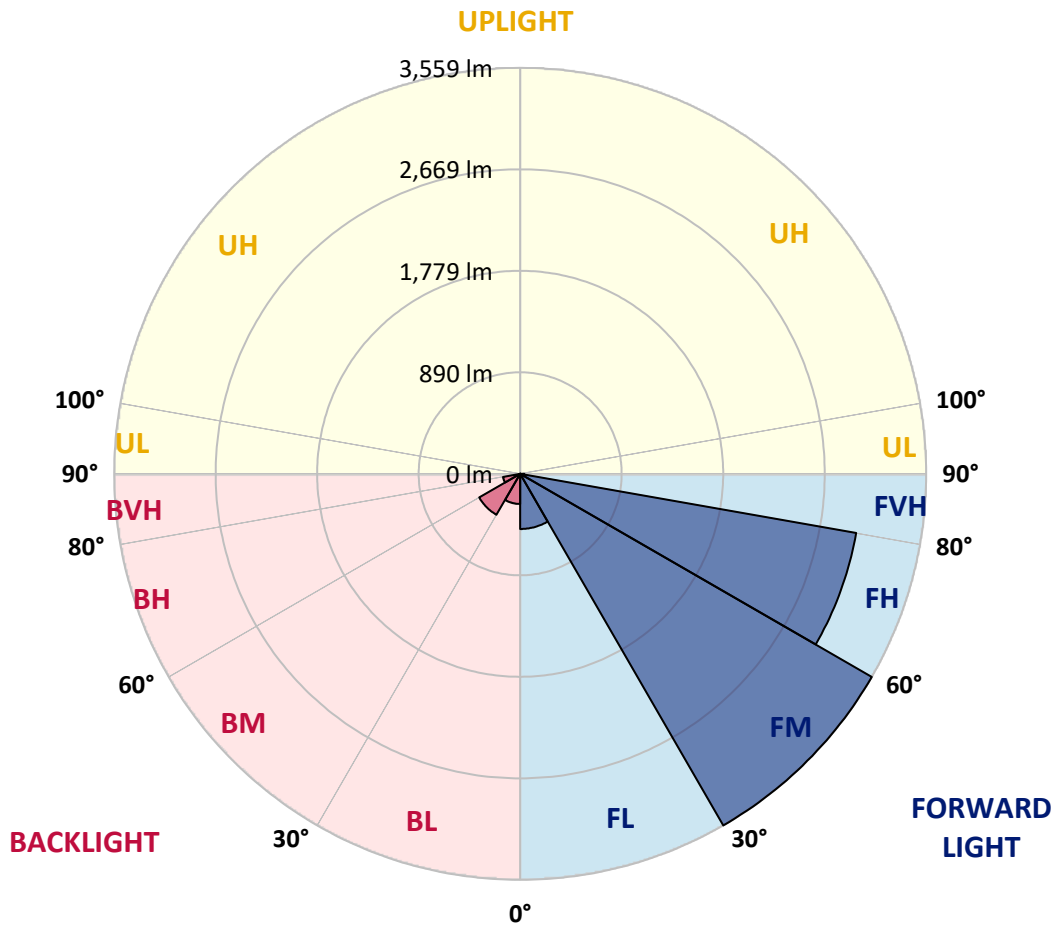
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.7	6.1			
FM (30°-60°)	3559.0	45.0			
FH (60°-80°)	2990.6	37.9			G2/5000
FVH (80°-90°)	34.8	0.4			G1/100
BL (0°-30°)	264.6	3.3	B1/500		
BM (30°-60°)	414.6	5.2	B1/1000		
BH (60°-80°)	152.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4
2.5°	1157.1	1167.5	1166.1	1173.0	1175.5	1185.5	1195.5	1209.0	1223.9	1223.4
5°	1091.7	1102.2	1104.7	1114.2	1126.1	1141.6	1162.1	1189.0	1216.9	1221.4
7.5°	1014.4	1025.3	1031.8	1050.8	1072.7	1104.7	1138.1	1177.5	1223.9	1230.4
10°	937.0	947.0	955.5	982.4	1017.4	1064.8	1119.2	1176.0	1238.4	1247.9
12.5°	889.1	898.6	908.1	931.5	975.0	1032.8	1106.7	1183.0	1262.4	1275.8
15°	872.2	880.7	888.1	909.1	949.5	1015.4	1104.2	1197.5	1292.8	1310.7
17.5°	874.7	879.2	884.1	900.1	939.5	1007.4	1108.7	1222.4	1328.7	1344.7
20°	889.1	891.6	892.1	903.1	938.0	1006.4	1117.7	1246.4	1362.6	1384.1
22.5°	907.6	908.6	907.6	915.1	947.5	1013.9	1129.6	1275.3	1400.6	1420.5
25°	993.9	975.0	951.0	936.5	963.5	1028.3	1147.6	1314.2	1442.0	1461.4
27.5°	1261.9	1207.5	1121.6	1025.3	996.4	1049.3	1172.5	1353.7	1483.9	1501.3
30°	1696.9	1625.6	1479.9	1262.8	1102.2	1093.2	1205.0	1393.1	1528.3	1547.3
32.5°	2133.0	2115.6	1947.4	1647.0	1340.2	1191.0	1258.9	1446.5	1587.2	1602.1
35°	2574.1	2538.7	2401.0	2104.1	1706.9	1390.1	1348.7	1516.3	1664.5	1681.5
37.5°	2911.9	2890.4	2805.1	2560.6	2142.0	1697.4	1502.3	1624.6	1776.8	1795.7
40°	3210.3	3200.3	3171.3	3010.2	2628.5	2099.6	1741.3	1792.2	1932.4	1954.9
42.5°	3444.8	3468.2	3484.7	3439.8	3129.9	2558.6	2062.7	2027.7	2149.5	2172.4
45°	3684.8	3692.7	3759.1	3824.0	3627.9	3038.6	2424.9	2303.7	2419.4	2447.9
47.5°	3838.9	3870.9	3987.6	4101.9	4046.5	3514.6	2814.1	2629.5	2732.3	2785.7
50°	3850.4	3910.8	4071.5	4270.5	4351.4	3967.7	3237.2	3000.7	3110.0	3168.8
52.5°	3659.3	3753.1	4002.1	4293.5	4516.0	4351.4	3674.8	3371.9	3512.1	3589.0
55°	2805.6	2928.4	3741.1	4168.8	4522.5	4642.3	4100.9	3758.6	3960.2	4047.0
57.5°	2444.4	2506.2	2941.3	3952.2	4402.3	4759.5	4486.1	4126.8	4447.7	4555.4
60°	2033.7	2115.1	2466.8	3597.9	4239.1	4771.0	4826.4	4601.8	4976.1	5097.3
62.5°	1382.1	1470.4	1820.2	2989.2	4016.1	4765.5	5105.3	5090.8	5563.3	5693.5
65°	856.2	911.6	1142.1	2440.9	3704.2	4771.5	5397.2	5684.6	6183.0	6315.2
67.5°	676.6	702.0	822.3	1874.1	3166.9	4636.8	5688.6	6242.9	6766.3	6871.1
70°	454.5	470.0	598.2	1256.4	2356.1	4015.1	5683.1	6523.3	7066.7	7119.1
72.5°	239.5	251.5	349.8	581.8	1423.0	2854.0	4790.4	6188.0	6767.8	6689.0
75°	119.7	139.7	235.5	295.4	607.7	1591.7	2974.8	4878.8	5326.8	5021.5
77.5°	90.8	109.8	194.6	194.6	211.6	535.9	1259.9	2660.9	2454.3	2043.7
80°	57.9	74.8	170.1	147.2	88.3	136.2	328.3	745.4	521.4	396.7
82.5°	33.9	48.9	141.7	97.3	49.4	50.4	92.8	158.7	135.2	105.3
85°	13.5	31.9	97.3	38.4	19.5	12.5	27.9	33.9	27.9	21.0
87.5°	0.0	7.5	17.0	0.0	1.5	1.0	2.0	2.5	2.5	2.0
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°
1232.4	0°	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4
1233.4	2.5°	1237.9	1238.9	1241.9	1242.4	1235.4	1226.4	1222.9	1221.4	1215.4	1214.9
1241.4	5°	1252.9	1257.4	1252.9	1239.9	1209.0	1165.6	1132.6	1105.7	1081.2	1073.7
1268.8	7.5°	1282.8	1287.3	1273.8	1222.9	1145.1	1058.8	980.9	926.1	876.7	858.2
1302.3	10°	1325.7	1331.7	1289.3	1186.5	1048.8	910.1	778.4	685.6	613.2	583.8
1347.7	12.5°	1379.6	1382.1	1297.8	1131.1	923.6	725.5	538.9	439.6	375.2	351.3
1402.6	15°	1439.0	1435.5	1298.8	1055.8	752.9	512.9	351.8	288.9	262.9	255.0
1457.4	17.5°	1501.3	1486.9	1278.8	947.0	565.8	350.8	261.0	246.0	241.5	239.5
1511.8	20°	1562.7	1530.3	1242.4	804.8	406.1	262.0	237.0	232.5	230.0	229.0
1566.7	22.5°	1618.6	1563.2	1180.0	639.7	294.9	231.5	224.0	220.0	215.5	213.6
1620.1	25°	1673.0	1582.2	1092.2	485.5	236.0	216.5	210.6	203.1	197.1	194.6
1677.5	27.5°	1725.9	1594.2	982.4	359.2	210.6	202.6	191.6	181.1	176.6	175.6
1738.9	30°	1782.3	1598.1	857.7	267.9	195.1	185.1	169.1	157.2	154.7	155.2
1821.7	32.5°	1851.1	1604.1	732.0	219.5	182.1	164.2	145.2	132.7	130.7	132.7
1942.4	35°	1933.4	1616.1	610.7	202.1	170.6	142.7	122.2	111.8	109.8	111.3
2097.1	37.5°	2045.2	1635.6	497.5	198.6	161.2	124.7	102.8	94.3	94.3	94.8
2286.7	40°	2193.9	1687.5	396.2	196.1	156.2	111.3	86.8	83.3	84.8	85.8
2528.2	42.5°	2375.0	1797.7	327.8	193.1	150.7	105.3	78.8	77.3	79.8	80.8
2817.6	45°	2578.1	1937.4	303.9	188.1	145.7	109.3	75.3	73.3	76.3	76.8
3141.9	47.5°	2788.1	2074.1	300.9	182.6	140.7	115.3	74.3	69.9	73.3	73.8
3488.2	50°	3000.7	2163.5	303.9	174.1	132.7	115.3	74.8	66.4	69.4	70.9
3847.4	52.5°	3214.8	2204.4	301.9	155.7	118.8	108.3	74.8	63.4	66.4	67.4
4235.6	55°	3422.3	2196.4	271.4	128.2	100.8	95.8	72.8	60.9	62.9	63.4
4602.3	57.5°	3586.5	2085.1	215.0	99.8	81.8	79.8	66.4	57.9	59.4	58.9
4938.6	60°	3672.3	1840.6	153.7	76.8	64.4	62.9	58.4	53.9	54.9	52.4
5223.5	62.5°	3673.3	1517.3	102.8	60.9	51.4	49.9	49.9	48.4	47.4	42.4
5444.1	65°	3595.0	1158.6	68.4	48.4	41.4	38.9	41.9	41.4	37.9	30.9
5511.4	67.5°	3417.3	759.4	51.9	37.9	31.9	30.4	33.4	34.9	32.4	25.9
5265.9	70°	3052.1	442.1	42.9	29.4	23.9	22.5	26.9	29.9	26.9	21.0
4501.1	72.5°	2535.2	238.5	34.9	22.0	16.5	15.0	21.5	24.4	21.5	15.5
2887.9	75°	1645.0	127.7	26.9	14.5	8.5	9.5	16.0	18.0	15.0	10.0
847.7	77.5°	552.3	56.4	17.0	7.0	4.0	4.0	9.5	11.0	7.0	3.5
154.2	80°	123.2	23.5	7.0	3.0	1.5	1.5	2.0	2.0	1.0	0.0
47.4	82.5°	40.4	9.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	85°	15.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	6.0	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>
1232.4
1215.9
1069.3
850.7
571.3
343.8
255.0
239.0
228.0
213.1
193.6
174.6
155.2
132.2
110.8
94.3
85.8
80.8
77.3
74.3
71.4
67.4
63.4
58.9
51.9
40.9
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