

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: P944990

Luminaire Tested: **GALN-SB1A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

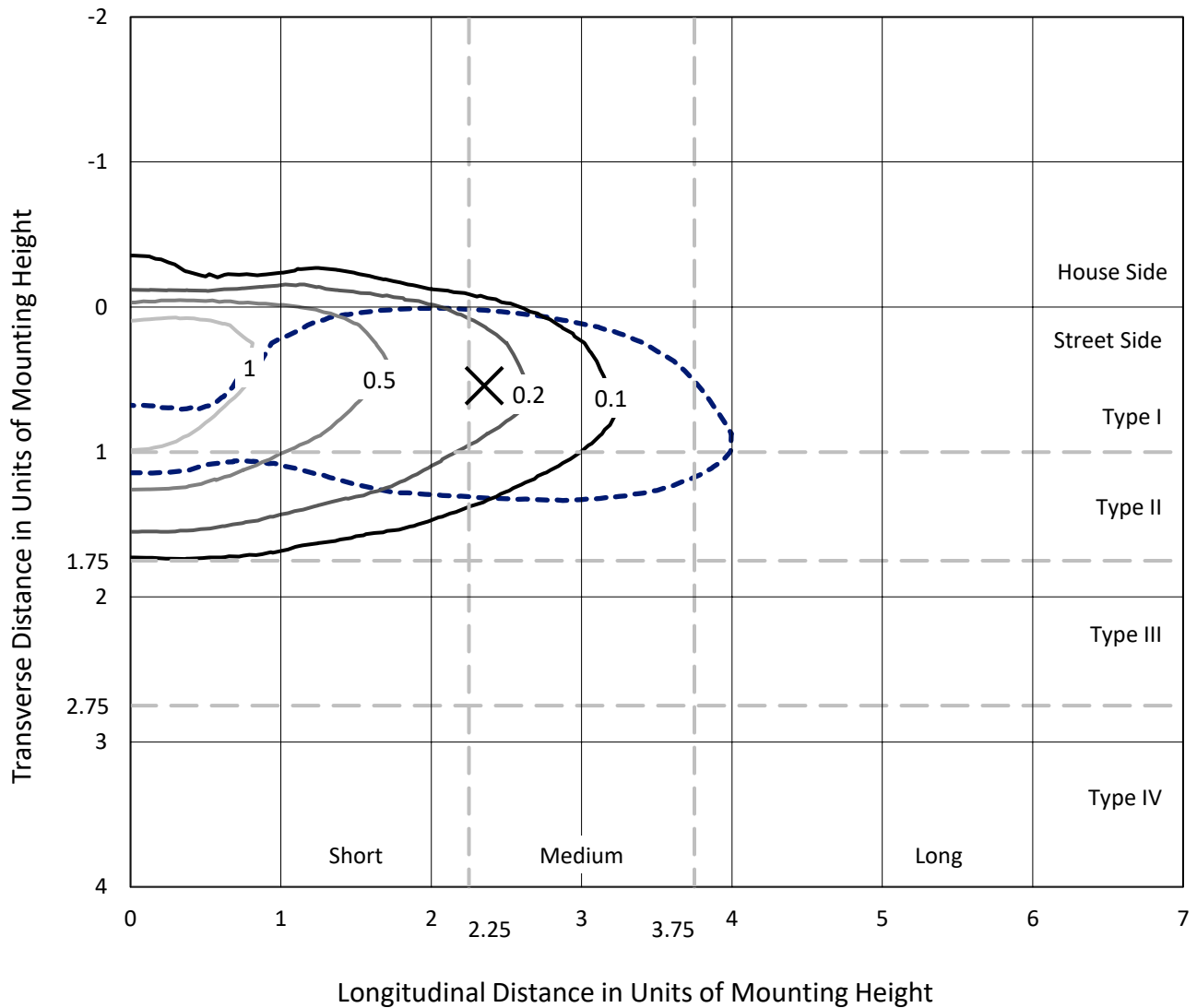
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

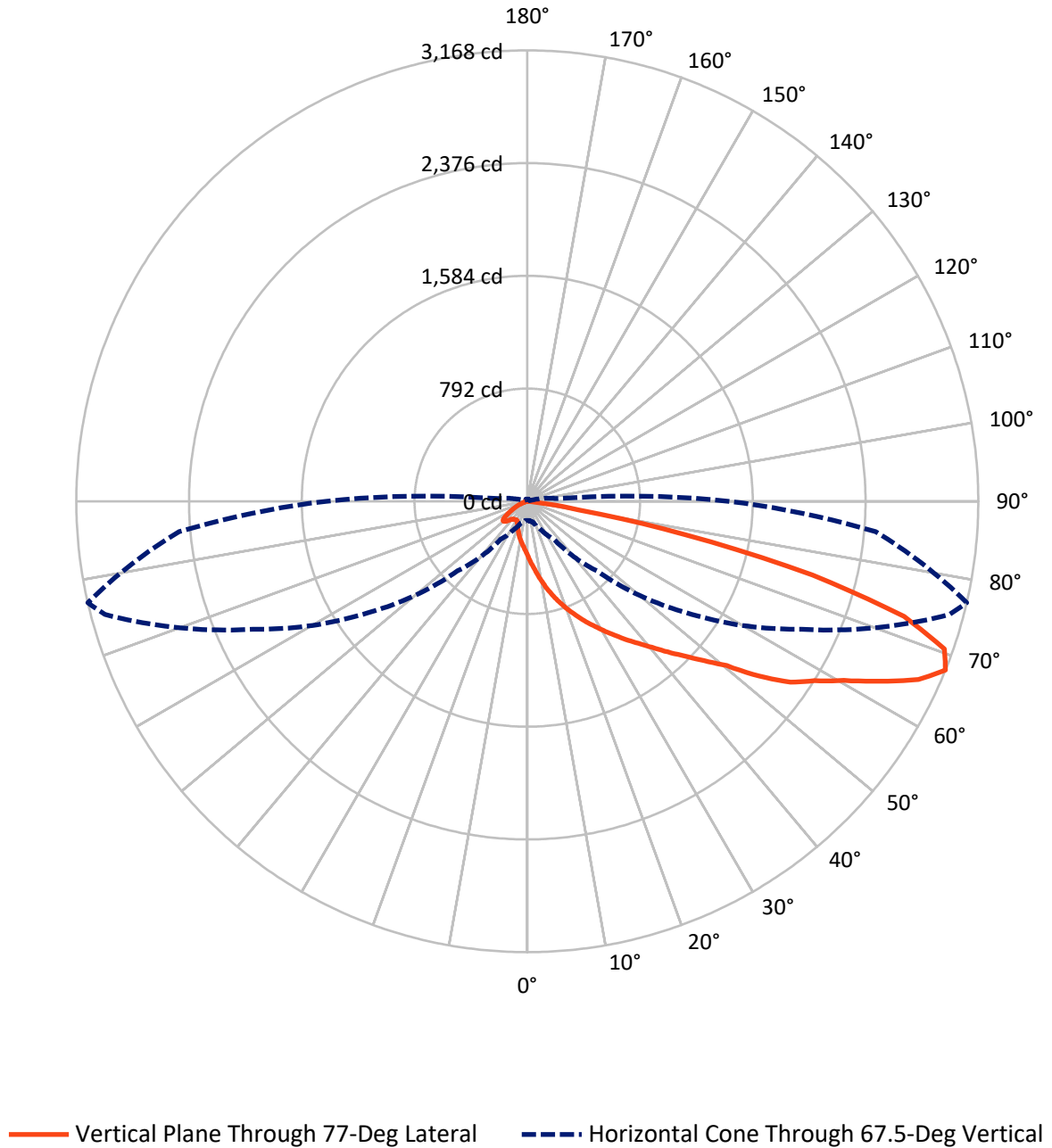
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	243.1	0.0	243.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3060.9	0.0	3060.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	3304.0	0.0	3304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	1.2
10°-20°	136.2	4.1
20°-30°	262.8	8.0
30°-40°	456.2	13.8
40°-50°	662.4	20.0
50°-60°	760.7	23.0
60°-70°	660.4	20.0
70°-80°	311.1	9.4
80°-90°	15.4	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°	3304.0	100.0
0°-180°	3304.0	100.0

Coefficient of Utilization



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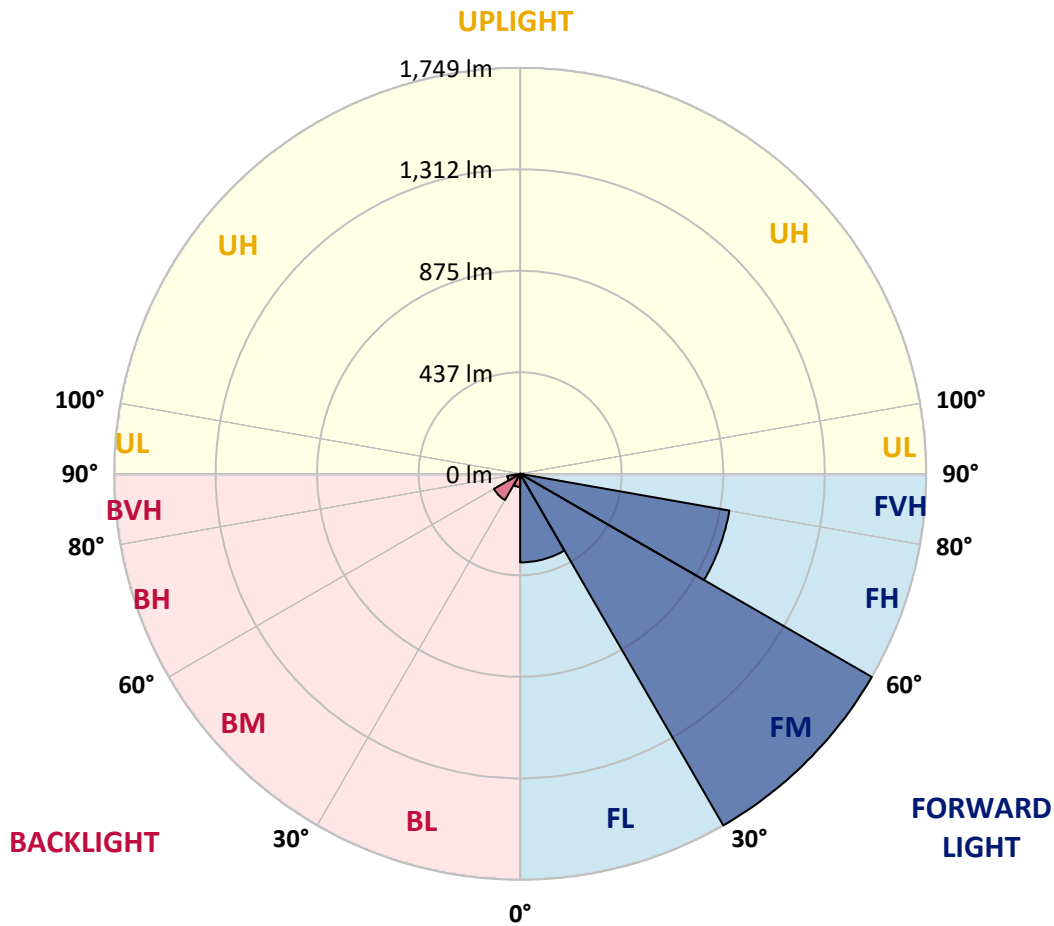
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.6	11.5			
FM (30°-60°)	1749.0	52.9			
FH (60°-80°)	915.2	27.7			G1/1800
FVH (80°-90°)	15.1	0.5			G1/100
BL (0°-30°)	56.3	1.7	B0/110		
BM (30°-60°)	130.2	3.9	B0/220		
BH (60°-80°)	56.3	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
2.5°	527.5	530.8	526.1	517.0	503.5	494.7	473.1	452.8	430.2	423.1
5°	643.0	645.9	640.5	630.7	612.6	595.4	567.1	524.6	480.5	466.4
7.5°	728.6	730.2	728.1	719.1	701.9	682.4	650.8	600.5	535.1	519.5
10°	790.1	795.4	794.8	791.3	779.8	764.1	730.4	673.2	596.2	576.1
12.5°	830.9	836.9	840.4	848.2	847.6	837.5	808.0	747.4	657.2	633.6
15°	842.8	849.2	862.5	880.6	896.6	901.7	881.0	820.3	724.2	694.1
17.5°	836.1	845.9	861.9	890.4	925.5	948.7	946.4	890.6	785.2	750.7
20°	851.0	860.5	873.0	897.0	937.8	979.9	996.7	957.9	845.7	809.6
22.5°	933.9	932.3	933.5	937.4	961.8	1003.5	1038.2	1019.1	905.6	868.7
25°	1065.2	1057.9	1045.3	1024.2	1018.1	1038.2	1074.3	1073.2	968.8	929.2
27.5°	1215.8	1214.6	1185.3	1134.4	1105.7	1097.9	1115.1	1126.0	1031.4	989.1
30°	1360.1	1363.4	1323.8	1267.1	1214.4	1183.8	1168.2	1176.0	1095.0	1053.8
32.5°	1485.6	1489.1	1446.0	1379.8	1314.5	1277.6	1244.8	1225.5	1164.3	1119.4
35°	1591.7	1595.2	1545.7	1472.5	1402.9	1369.5	1332.4	1279.6	1234.1	1192.2
37.5°	1686.5	1685.5	1619.2	1545.3	1477.0	1450.5	1431.1	1346.3	1305.9	1265.5
40°	1742.5	1746.8	1690.2	1608.7	1542.5	1523.2	1521.9	1429.0	1388.8	1349.6
42.5°	1758.9	1766.5	1725.5	1658.6	1598.5	1577.5	1609.8	1518.5	1485.2	1447.1
45°	1729.4	1736.8	1718.1	1671.7	1636.6	1623.1	1685.3	1611.2	1588.2	1550.5
47.5°	1643.2	1652.4	1656.9	1647.1	1646.7	1660.4	1753.0	1708.9	1710.5	1671.9
50°	1476.4	1492.0	1533.4	1568.3	1622.3	1690.0	1818.8	1814.7	1848.4	1815.1
52.5°	1173.2	1195.3	1338.1	1433.5	1554.8	1684.4	1891.3	1984.6	2090.3	2041.6
55°	942.8	942.8	1058.9	1237.4	1423.1	1647.9	1922.8	2095.0	2255.0	2243.5
57.5°	768.6	777.8	851.9	1009.6	1232.5	1560.9	1942.3	2164.3	2387.8	2379.4
60°	474.4	494.3	634.2	789.9	1015.6	1406.0	1930.0	2234.5	2548.8	2555.6
62.5°	267.1	274.5	336.9	568.3	789.7	1197.8	1835.9	2273.7	2754.8	2783.5
65°	184.4	188.1	212.1	353.7	547.4	953.6	1651.8	2249.3	2961.2	3019.3
67.5°	134.0	135.8	150.8	216.0	324.8	691.4	1363.4	2126.2	3070.6	3167.6
70°	103.0	104.2	115.1	142.0	191.8	426.8	990.1	1881.4	2991.4	3107.3
72.5°	83.7	84.9	93.4	105.0	127.2	252.4	600.1	1527.9	2641.8	2766.9
75°	70.6	72.2	79.8	87.4	99.7	162.1	281.5	1064.0	1986.7	2068.7
77.5°	39.2	36.1	64.8	72.4	84.1	102.6	131.7	626.2	1112.6	1135.4
80°	24.4	25.2	51.5	58.3	64.6	51.7	60.3	241.1	385.7	366.4
82.5°	1.4	3.3	39.6	42.1	44.3	22.2	22.8	81.9	92.9	85.4
85°	0.0	0.0	18.1	14.6	15.4	6.4	6.6	19.1	12.5	13.5
87.5°	0.0	0.0	0.0	0.4	0.0	0.6	1.2	1.6	0.6	0.8
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°
381.0	0°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
400.5	2.5°	386.1	371.8	342.6	314.1	290.9	269.4	254.0	239.4	232.0	231.6
426.3	5°	397.8	367.7	309.4	257.9	216.5	183.2	161.7	146.3	138.5	135.8
458.1	7.5°	414.2	368.9	280.3	208.7	159.8	131.3	119.0	114.1	112.4	110.6
494.0	10°	435.0	371.8	254.2	168.0	126.0	111.6	106.7	104.6	103.4	102.2
534.5	12.5°	458.1	374.4	228.4	139.5	110.8	103.4	99.9	97.5	95.8	94.4
575.9	15°	480.7	376.1	201.5	119.6	103.0	97.0	93.4	90.7	88.4	86.8
616.5	17.5°	503.1	378.3	176.2	107.7	96.6	90.7	87.0	83.7	81.9	80.0
659.2	20°	527.9	377.9	152.4	99.3	90.3	84.3	80.4	77.3	75.5	73.5
704.3	22.5°	550.9	375.9	131.5	92.1	83.7	78.0	73.7	70.6	68.7	67.1
750.5	25°	577.3	374.2	114.1	85.6	77.6	71.8	67.1	64.2	62.2	60.7
796.9	27.5°	602.8	371.8	101.4	79.6	71.6	66.1	61.6	58.3	56.4	55.4
844.7	30°	627.8	371.2	96.6	73.9	66.3	60.7	56.2	53.1	51.7	51.3
897.2	32.5°	658.0	372.8	98.7	71.8	61.3	55.8	51.5	49.2	47.8	47.8
955.7	35°	690.2	372.4	101.8	73.7	58.1	50.9	47.6	46.2	44.7	44.7
1020.5	37.5°	730.6	373.0	104.2	76.7	56.8	46.8	44.9	43.1	42.3	42.3
1091.5	40°	790.9	393.3	103.0	79.4	56.4	43.9	40.2	39.6	39.0	39.0
1171.7	42.5°	864.8	437.4	104.6	79.6	56.2	41.9	36.9	38.2	36.7	36.5
1262.2	45°	945.6	485.6	115.1	75.3	56.0	40.8	35.3	36.7	34.5	34.5
1367.0	47.5°	1025.8	533.4	125.8	69.1	55.4	40.6	33.9	33.0	32.4	32.6
1503.7	50°	1136.4	572.4	129.9	60.7	54.0	40.2	31.2	31.4	31.0	31.4
1696.3	52.5°	1256.9	580.6	124.9	51.3	49.9	39.0	29.3	30.2	30.0	30.4
1832.0	55°	1332.0	571.8	103.2	42.7	43.5	34.1	27.5	29.1	29.1	29.1
1964.5	57.5°	1409.5	534.3	73.2	34.7	36.1	27.9	25.9	28.1	27.9	27.7
2124.1	60°	1465.3	473.5	48.2	28.5	28.7	23.0	24.0	26.5	26.3	25.2
2288.7	62.5°	1507.0	406.4	31.0	24.2	22.0	20.7	22.0	24.0	23.2	20.9
2428.2	65°	1502.3	313.5	23.8	20.7	18.1	18.1	19.1	20.9	18.5	14.8
2454.9	67.5°	1414.6	212.1	19.7	17.4	15.2	15.0	15.8	17.4	15.8	12.5
2318.2	70°	1258.1	138.7	15.8	13.5	12.1	11.1	12.7	15.0	13.3	10.1
1973.5	72.5°	1021.1	84.5	11.9	9.8	8.8	7.2	10.1	12.3	10.7	7.4
1372.4	75°	660.6	43.1	8.2	6.4	4.7	4.3	7.4	9.2	7.4	4.5
608.9	77.5°	252.8	18.1	4.5	2.9	2.5	2.1	4.1	5.5	3.1	1.0
118.0	80°	48.6	7.6	2.3	1.4	1.2	0.8	0.6	0.4	0.0	0.0
20.9	82.5°	8.4	2.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.1	85°	2.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	1.0	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>
381.0
231.2
135.4
110.2
101.8
94.0
86.6
79.8
73.2
66.9
60.5
55.4
51.1
47.8
44.7
42.3
39.0
36.3
34.5
32.6
31.4
30.4
29.1
27.7
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