

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: P944906

Luminaire Tested: **GALN-SB1A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944906
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-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 3799 lumens
Efficiency: N/A
Efficacy: 122.9 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

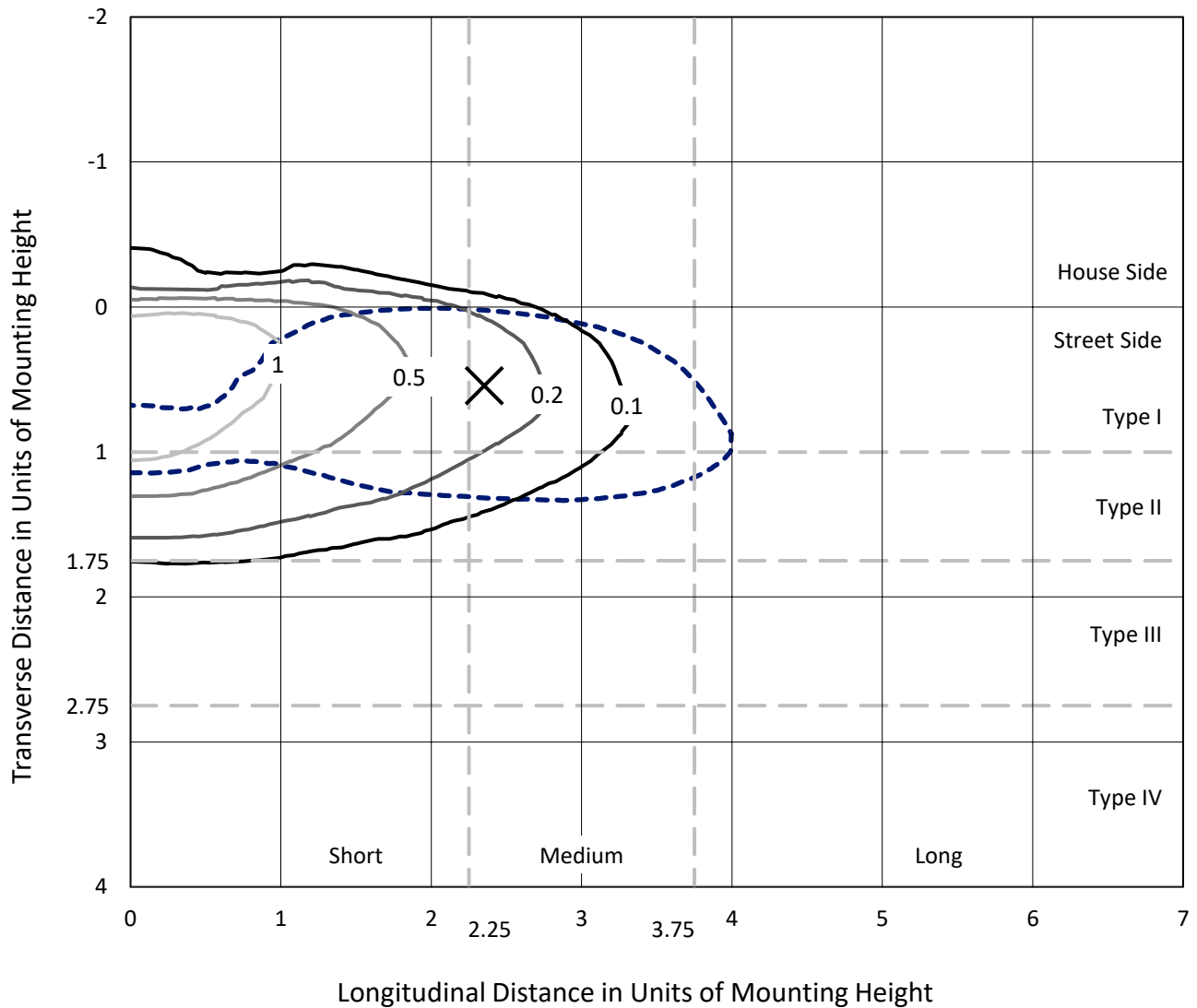
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944906
 CATALOG NUMBER: GALN-SB1A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

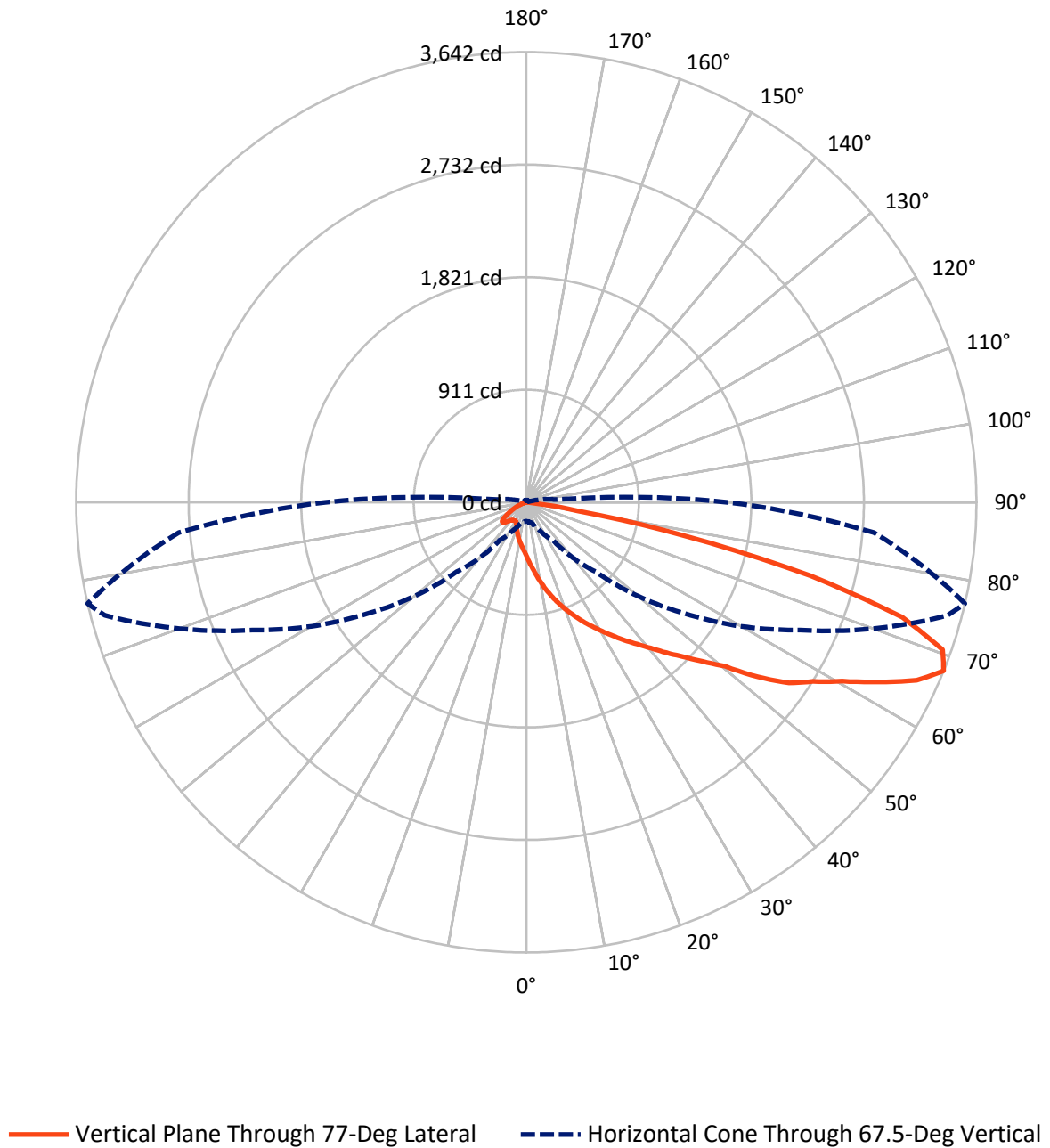
× Max cd
 - - - 1/2 Max cd



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	279.5	0.0	279.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3519.5	0.0	3519.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	3799.0	0.0	3799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.2
10°-20°	156.6	4.1
20°-30°	302.2	8.0
30°-40°	524.6	13.8
40°-50°	761.6	20.0
50°-60°	874.6	23.0
60°-70°	759.4	20.0
70°-80°	357.7	9.4
80°-90°	17.7	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°	3799.0	100.0
0°-180°	3799.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944906

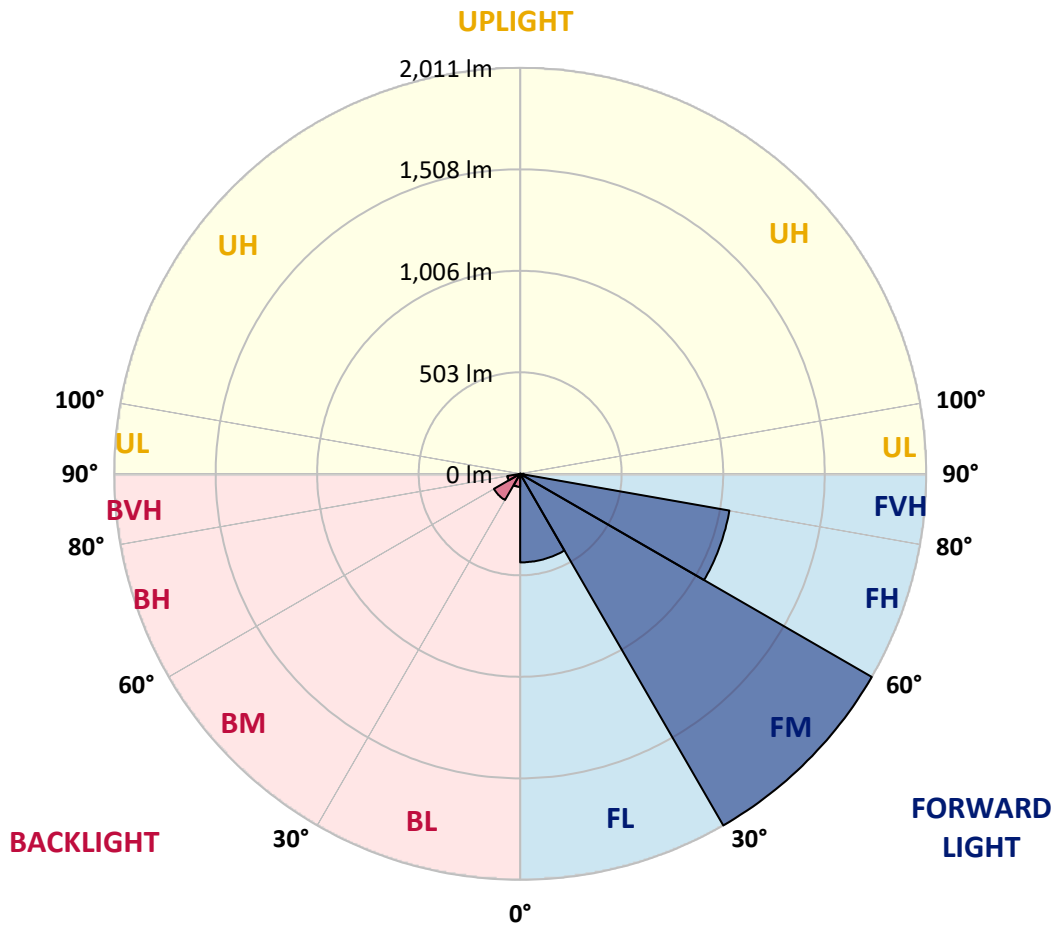
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.7	11.5			
FM (30°-60°)	2011.1	52.9			
FH (60°-80°)	1052.3	27.7			G1/1800
FVH (80°-90°)	17.4	0.5			G1/100
BL (0°-30°)	64.7	1.7	B0/110		
BM (30°-60°)	149.8	3.9	B0/220		
BH (60°-80°)	64.7	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



REPORT NUMBER: P944906
 CATALOG NUMBER: GALN-SB1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1
2.5°	606.5	610.3	604.9	594.5	578.9	568.8	544.0	520.6	494.7	486.4
5°	739.3	742.6	736.5	725.2	704.4	684.6	652.0	603.2	552.5	536.2
7.5°	837.7	839.6	837.2	826.9	807.0	784.6	748.3	690.5	615.2	597.3
10°	908.5	914.6	913.9	909.9	896.7	878.5	839.8	774.0	685.5	662.4
12.5°	955.4	962.3	966.3	975.2	974.5	963.0	929.0	859.4	755.6	728.5
15°	969.1	976.4	991.8	1012.5	1030.9	1036.8	1013.0	943.2	832.8	798.1
17.5°	961.3	972.6	991.0	1023.8	1064.2	1090.8	1088.2	1024.1	902.8	863.2
20°	978.5	989.4	1003.8	1031.4	1078.3	1126.7	1146.0	1101.5	972.4	930.9
22.5°	1073.9	1072.0	1073.4	1077.9	1105.9	1153.8	1193.7	1171.8	1041.3	998.8
25°	1224.8	1216.3	1201.9	1177.7	1170.6	1193.7	1235.2	1234.0	1114.0	1068.4
27.5°	1398.0	1396.6	1362.8	1304.3	1271.3	1262.3	1282.2	1294.7	1185.9	1137.3
30°	1563.8	1567.6	1522.1	1457.0	1396.3	1361.2	1343.3	1352.2	1259.0	1211.6
32.5°	1708.2	1712.2	1662.7	1586.5	1511.5	1469.0	1431.3	1409.1	1338.8	1287.1
35°	1830.2	1834.2	1777.3	1693.1	1613.1	1574.7	1532.0	1471.4	1419.0	1370.9
37.5°	1939.2	1938.0	1861.8	1776.9	1698.3	1667.9	1645.5	1548.0	1501.6	1455.1
40°	2003.6	2008.5	1943.4	1849.8	1773.6	1751.4	1750.0	1643.1	1596.9	1551.8
42.5°	2022.4	2031.2	1984.0	1907.1	1838.0	1813.9	1850.9	1746.0	1707.7	1663.9
45°	1988.5	1997.0	1975.5	1922.2	1881.8	1866.3	1937.7	1852.6	1826.2	1782.8
47.5°	1889.4	1900.0	1905.2	1893.9	1893.4	1909.2	2015.6	1964.9	1966.8	1922.4
50°	1697.6	1715.5	1763.2	1803.3	1865.3	1943.2	2091.3	2086.6	2125.3	2087.1
52.5°	1348.9	1374.4	1538.6	1648.3	1787.7	1936.8	2174.6	2281.9	2403.4	2347.5
55°	1084.0	1084.0	1217.5	1422.8	1636.3	1894.8	2210.9	2408.9	2592.9	2579.7
57.5°	883.7	894.3	979.5	1160.9	1417.1	1794.8	2233.3	2488.6	2745.5	2735.8
60°	545.4	568.3	729.2	908.2	1167.7	1616.7	2219.2	2569.3	2930.7	2938.5
62.5°	307.2	315.6	387.4	653.5	908.0	1377.2	2110.9	2614.3	3167.5	3200.6
65°	212.1	216.3	243.9	406.7	629.4	1096.5	1899.3	2586.3	3404.9	3471.6
67.5°	154.0	156.2	173.4	248.4	373.4	795.0	1567.6	2444.7	3530.6	3642.2
70°	118.4	119.8	132.3	163.2	220.6	490.7	1138.5	2163.3	3439.5	3572.8
72.5°	96.3	97.7	107.3	120.8	146.3	290.2	690.0	1756.8	3037.5	3181.5
75°	81.2	83.0	91.8	100.5	114.7	186.4	323.7	1223.4	2284.3	2378.7
77.5°	45.1	41.5	74.5	83.3	96.7	118.0	151.5	720.0	1279.3	1305.5
80°	28.1	29.0	59.2	67.0	74.3	59.4	69.4	277.2	443.5	421.3
82.5°	1.7	3.8	45.5	48.4	51.0	25.5	26.2	94.1	106.9	98.1
85°	0.0	0.0	20.8	16.7	17.7	7.3	7.5	21.9	14.4	15.6
87.5°	0.0	0.0	0.0	0.5	0.0	0.7	1.4	1.9	0.7	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944906
 CATALOG NUMBER: GALN-SB1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
438.1	0°	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1
460.5	2.5°	444.0	427.5	394.0	361.2	334.5	309.7	292.1	275.3	266.8	266.3
490.2	5°	457.4	422.7	355.7	296.5	248.9	210.7	185.9	168.2	159.2	156.2
526.8	7.5°	476.3	424.2	322.2	239.9	183.8	151.0	136.8	131.2	129.3	127.2
568.1	10°	500.1	427.5	292.3	193.2	144.8	128.3	122.7	120.3	118.9	117.5
614.5	12.5°	526.8	430.5	262.6	160.4	127.4	118.9	114.9	112.1	110.2	108.5
662.2	15°	552.7	432.4	231.7	137.5	118.4	111.6	107.3	104.3	101.7	99.8
708.9	17.5°	578.4	435.0	202.6	123.9	111.1	104.3	100.0	96.3	94.1	92.0
758.0	20°	607.0	434.5	175.3	114.2	103.8	97.0	92.5	88.9	86.8	84.5
809.9	22.5°	633.4	432.2	151.2	105.9	96.3	89.6	84.7	81.2	79.0	77.1
863.0	25°	663.8	430.3	131.2	98.4	89.2	82.6	77.1	73.8	71.5	69.8
916.3	27.5°	693.1	427.5	116.5	91.5	82.3	76.0	70.8	67.0	64.9	63.7
971.2	30°	721.9	426.8	111.1	84.9	76.2	69.8	64.6	61.1	59.4	59.0
1031.6	32.5°	756.6	428.6	113.5	82.6	70.5	64.2	59.2	56.6	55.0	55.0
1098.9	35°	793.6	428.2	117.0	84.7	66.8	58.5	54.7	53.1	51.4	51.4
1173.4	37.5°	840.1	428.9	119.8	88.2	65.3	53.8	51.7	49.5	48.6	48.6
1255.0	40°	909.4	452.2	118.4	91.3	64.9	50.5	46.2	45.5	44.8	44.8
1347.3	42.5°	994.4	503.0	120.3	91.5	64.6	48.1	42.5	43.9	42.2	42.0
1451.3	45°	1087.3	558.4	132.3	86.6	64.4	46.9	40.6	42.2	39.6	39.6
1571.9	47.5°	1179.5	613.4	144.6	79.5	63.7	46.7	38.9	38.0	37.3	37.5
1729.0	50°	1306.7	658.2	149.3	69.8	62.0	46.2	35.9	36.1	35.6	36.1
1950.5	52.5°	1445.2	667.6	143.7	59.0	57.3	44.8	33.7	34.7	34.4	34.9
2106.4	55°	1531.5	657.5	118.7	49.1	50.0	39.2	31.6	33.5	33.5	33.5
2258.8	57.5°	1620.7	614.3	84.2	39.9	41.5	32.1	29.7	32.3	32.1	31.8
2442.4	60°	1684.9	544.5	55.4	32.8	33.0	26.4	27.6	30.4	30.2	29.0
2631.6	62.5°	1732.7	467.3	35.6	27.8	25.2	23.8	25.2	27.6	26.7	24.1
2792.0	65°	1727.3	360.5	27.4	23.8	20.8	20.8	21.9	24.1	21.2	17.0
2822.6	67.5°	1626.6	243.9	22.6	20.1	17.5	17.2	18.2	20.1	18.2	14.4
2665.5	70°	1446.6	159.5	18.2	15.6	13.9	12.7	14.6	17.2	15.3	11.6
2269.2	72.5°	1174.1	97.2	13.7	11.3	10.1	8.3	11.6	14.2	12.3	8.5
1578.0	75°	759.6	49.5	9.4	7.3	5.4	5.0	8.5	10.6	8.5	5.2
700.2	77.5°	290.6	20.8	5.2	3.3	2.8	2.4	4.7	6.4	3.5	1.2
135.6	80°	55.9	8.7	2.6	1.7	1.4	0.9	0.7	0.5	0.0	0.0
24.1	82.5°	9.7	2.8	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4.7	85°	3.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7	87.5°	1.2	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>
438.1
265.9
155.7
126.7
117.0
108.0
99.6
91.8
84.2
76.9
69.6
63.7
58.7
55.0
51.4
48.6
44.8
41.8
39.6
37.5
36.1
34.9
33.5
31.8
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16.5
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