

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: P946523

Luminaire Tested: **GALN-SB2A-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946523
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-SB2A-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4623 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

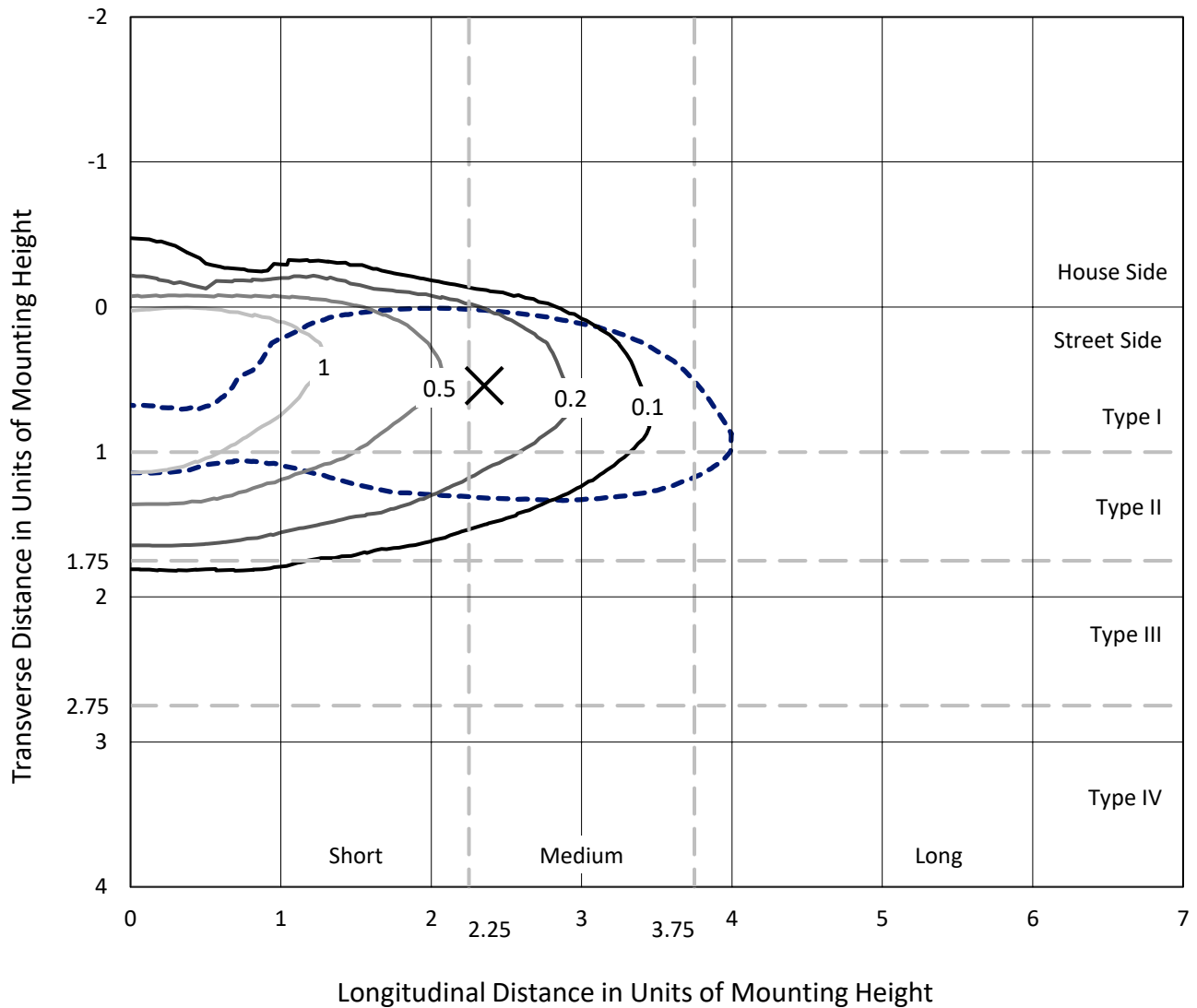
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

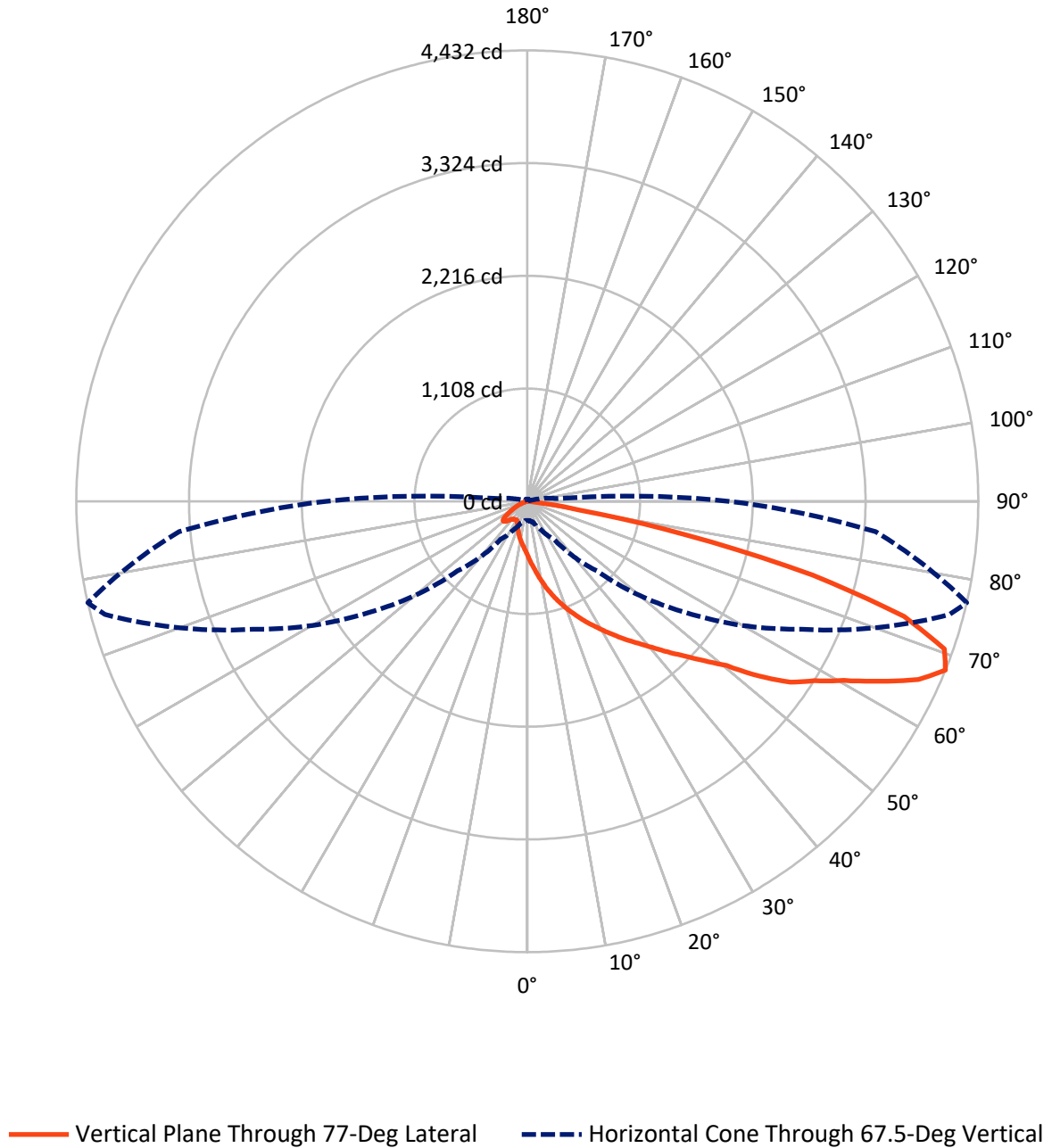
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	340.1	0.0	340.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4282.9	0.0	4282.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	4623.0	0.0	4623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.2
10°-20°	190.5	4.1
20°-30°	367.7	8.0
30°-40°	638.3	13.8
40°-50°	926.8	20.0
50°-60°	1064.4	23.0
60°-70°	924.1	20.0
70°-80°	435.2	9.4
80°-90°	21.5	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°	4623.0	100.0
0°-180°	4623.0	100.0

Coefficient of Utilization



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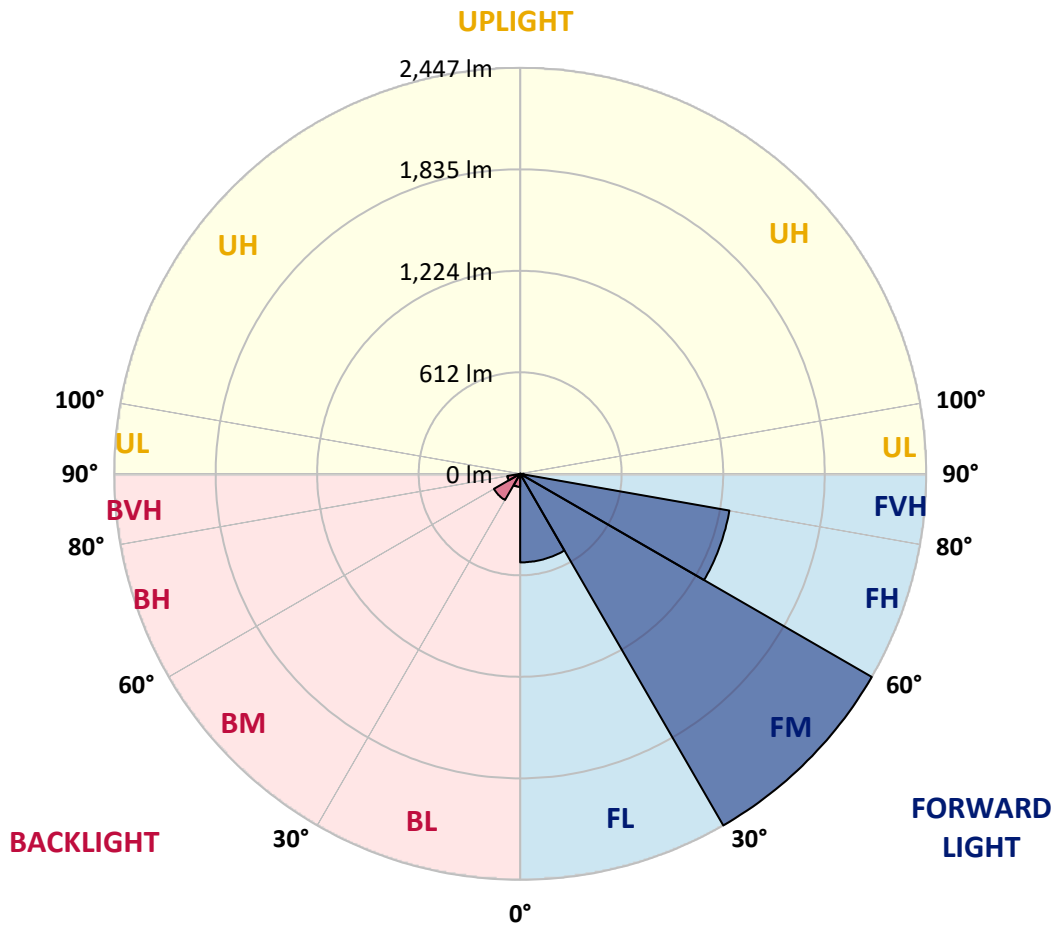
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.9	11.5			
FM (30°-60°)	2447.3	52.9			
FH (60°-80°)	1280.6	27.7			G1/1800
FVH (80°-90°)	21.1	0.5			G1/100
BL (0°-30°)	78.7	1.7	B0/110		
BM (30°-60°)	182.2	3.9	B0/220		
BH (60°-80°)	78.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.4	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°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	738.1	742.7	736.1	723.4	704.5	692.1	662.0	633.6	602.0	592.0
5°	899.7	903.7	896.3	882.5	857.2	833.1	793.5	734.1	672.3	652.5
7.5°	1019.4	1021.7	1018.8	1006.2	982.1	954.8	910.6	840.3	748.7	726.9
10°	1105.5	1113.0	1112.1	1107.3	1091.2	1069.1	1022.0	941.9	834.2	806.1
12.5°	1162.7	1171.0	1175.9	1186.8	1185.9	1171.8	1130.5	1045.8	919.5	886.5
15°	1179.3	1188.2	1206.9	1232.1	1254.5	1261.7	1232.7	1147.7	1013.4	971.2
17.5°	1169.8	1183.6	1206.0	1245.9	1295.0	1327.4	1324.3	1246.2	1098.6	1050.4
20°	1190.8	1204.0	1221.5	1255.1	1312.2	1371.1	1394.6	1340.4	1183.3	1132.8
22.5°	1306.8	1304.5	1306.2	1311.6	1345.8	1404.1	1452.6	1425.9	1267.2	1215.5
25°	1490.5	1480.2	1462.7	1433.1	1424.5	1452.6	1503.1	1501.7	1355.6	1300.2
27.5°	1701.2	1699.5	1658.4	1587.2	1547.1	1536.1	1560.3	1575.5	1443.1	1384.0
30°	1903.0	1907.6	1852.2	1773.0	1699.2	1656.4	1634.6	1645.5	1532.1	1474.4
32.5°	2078.7	2083.6	2023.3	1930.6	1839.3	1787.6	1741.7	1714.7	1629.2	1566.3
35°	2227.1	2232.0	2162.8	2060.3	1963.0	1916.2	1864.3	1790.5	1726.8	1668.2
37.5°	2359.8	2358.3	2265.6	2162.3	2066.7	2029.6	2002.4	1883.8	1827.2	1770.7
40°	2438.1	2444.2	2364.9	2251.0	2158.2	2131.3	2129.5	1999.5	1943.2	1888.4
42.5°	2461.1	2471.7	2414.3	2320.7	2236.6	2207.3	2252.4	2124.6	2078.1	2024.7
45°	2419.8	2430.1	2404.0	2339.1	2290.0	2271.1	2358.0	2254.4	2222.3	2169.4
47.5°	2299.2	2312.1	2318.4	2304.6	2304.1	2323.3	2452.8	2391.1	2393.4	2339.4
50°	2065.8	2087.6	2145.6	2194.4	2269.9	2364.6	2544.9	2539.2	2586.3	2539.8
52.5°	1641.5	1672.5	1872.3	2005.8	2175.5	2356.9	2646.3	2776.9	2924.7	2856.7
55°	1319.1	1319.1	1481.6	1731.4	1991.2	2305.8	2690.5	2931.3	3155.3	3139.2
57.5°	1075.4	1088.3	1191.9	1412.7	1724.5	2184.1	2717.7	3028.4	3341.0	3329.2
60°	663.7	691.6	887.4	1105.2	1421.0	1967.3	2700.5	3126.5	3566.3	3575.8
62.5°	373.8	384.1	471.4	795.2	1105.0	1675.9	2568.8	3181.4	3854.6	3894.8
65°	258.1	263.2	296.8	494.9	765.9	1334.3	2311.2	3147.2	4143.4	4224.6
67.5°	187.5	190.0	211.0	302.3	454.4	967.4	1907.6	2975.0	4296.4	4432.2
70°	144.1	145.8	161.0	198.7	268.4	597.1	1385.4	2632.5	4185.6	4347.8
72.5°	117.1	118.8	130.6	147.0	178.0	353.1	839.7	2137.9	3696.4	3871.5
75°	98.8	101.1	111.7	122.3	139.5	226.8	393.9	1488.8	2779.8	2894.6
77.5°	54.8	50.5	90.7	101.3	117.7	143.5	184.3	876.2	1556.8	1588.7
80°	34.2	35.3	72.1	81.5	90.4	72.3	84.4	337.3	539.7	512.7
82.5°	2.0	4.6	55.4	58.9	62.0	31.0	31.9	114.5	130.0	119.4
85°	0.0	0.0	25.3	20.4	21.5	8.9	9.2	26.7	17.5	18.9
87.5°	0.0	0.0	0.0	0.6	0.0	0.9	1.7	2.3	0.9	1.1
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°
533.1	0°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
560.4	2.5°	540.3	520.2	479.4	439.5	407.1	376.9	355.4	335.0	324.7	324.1
596.5	5°	556.6	514.4	432.9	360.9	302.9	256.4	226.2	204.7	193.8	190.0
641.0	7.5°	579.6	516.2	392.1	292.0	223.6	183.7	166.5	159.6	157.3	154.7
691.3	10°	608.6	520.2	355.7	235.1	176.3	156.2	149.3	146.4	144.7	143.0
747.8	12.5°	641.0	523.9	319.5	195.2	155.0	144.7	139.8	136.4	134.1	132.1
805.8	15°	672.6	526.2	281.9	167.4	144.1	135.8	130.6	126.9	123.7	121.4
862.7	17.5°	703.9	529.4	246.6	150.7	135.2	126.9	121.7	117.1	114.5	112.0
922.4	20°	738.6	528.8	213.3	138.9	126.3	118.0	112.5	108.2	105.6	102.8
985.5	22.5°	770.8	525.9	184.0	128.9	117.1	109.1	103.1	98.8	96.2	93.9
1050.1	25°	807.8	523.6	159.6	119.7	108.5	100.5	93.9	89.9	87.0	85.0
1115.0	27.5°	843.4	520.2	141.8	111.4	100.2	92.4	86.1	81.5	78.9	77.5
1181.9	30°	878.5	519.3	135.2	103.3	92.7	85.0	78.7	74.4	72.3	71.8
1255.4	32.5°	920.7	521.6	138.1	100.5	85.8	78.1	72.1	68.9	66.9	66.9
1337.2	35°	965.7	521.0	142.4	103.1	81.2	71.2	66.6	64.6	62.6	62.6
1427.9	37.5°	1022.3	521.9	145.8	107.4	79.5	65.5	62.9	60.3	59.1	59.1
1527.2	40°	1106.7	550.3	144.1	111.1	78.9	61.4	56.3	55.4	54.5	54.5
1639.5	42.5°	1210.0	612.0	146.4	111.4	78.7	58.6	51.7	53.4	51.4	51.1
1766.1	45°	1323.1	679.5	161.0	105.4	78.4	57.1	49.4	51.4	48.2	48.2
1912.8	47.5°	1435.4	746.4	176.0	96.7	77.5	56.8	47.4	46.2	45.4	45.6
2104.0	50°	1590.1	800.9	181.7	85.0	75.5	56.3	43.6	43.9	43.3	43.9
2373.5	52.5°	1758.6	812.4	174.8	71.8	69.8	54.5	41.1	42.2	41.9	42.5
2563.3	55°	1863.7	800.1	144.4	59.7	60.9	47.7	38.5	40.8	40.8	40.8
2748.8	57.5°	1972.2	747.5	102.5	48.5	50.5	39.0	36.2	39.3	39.0	38.8
2972.1	60°	2050.3	662.6	67.5	39.9	40.2	32.2	33.6	37.0	36.7	35.3
3202.3	62.5°	2108.6	568.7	43.3	33.9	30.7	29.0	30.7	33.6	32.4	29.3
3397.5	65°	2102.0	438.7	33.3	29.0	25.3	25.3	26.7	29.3	25.8	20.7
3434.9	67.5°	1979.4	296.8	27.6	24.4	21.2	21.0	22.1	24.4	22.1	17.5
3243.7	70°	1760.3	194.1	22.1	18.9	16.9	15.5	17.8	21.0	18.7	14.1
2761.4	72.5°	1428.8	118.3	16.7	13.8	12.3	10.0	14.1	17.2	14.9	10.3
1920.3	75°	924.4	60.3	11.5	8.9	6.6	6.0	10.3	12.9	10.3	6.3
852.0	77.5°	353.7	25.3	6.3	4.0	3.4	2.9	5.7	7.8	4.3	1.4
165.1	80°	68.0	10.6	3.2	2.0	1.7	1.1	0.9	0.6	0.0	0.0
29.3	82.5°	11.8	3.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	87.5°	1.4	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>
533.1
323.5
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