

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: P945347

Luminaire Tested: **GALN-SB1B-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945347  
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-SB1B-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

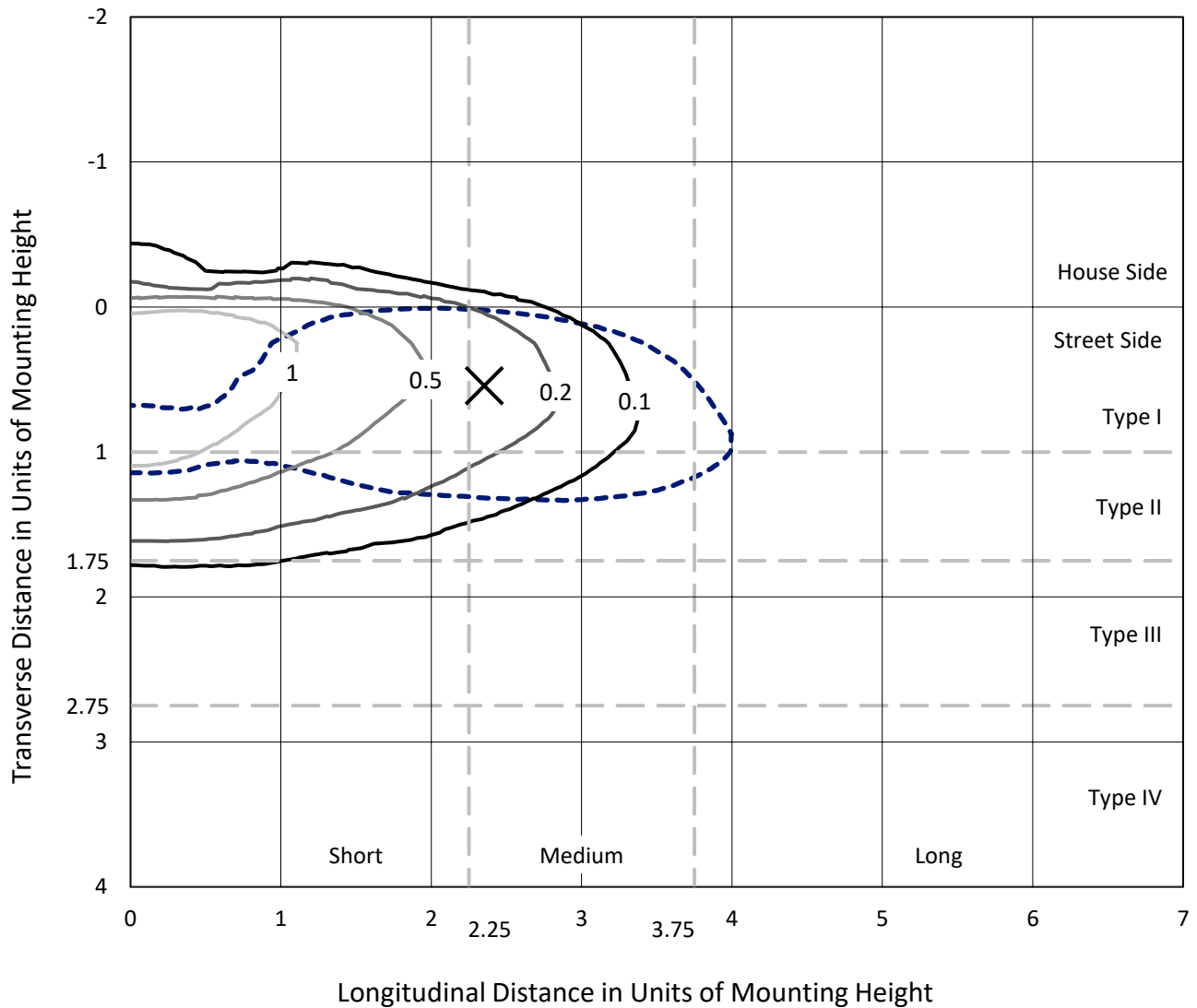
Lumens per Lamp: N/A  
Luminaire Lumens: 4147 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

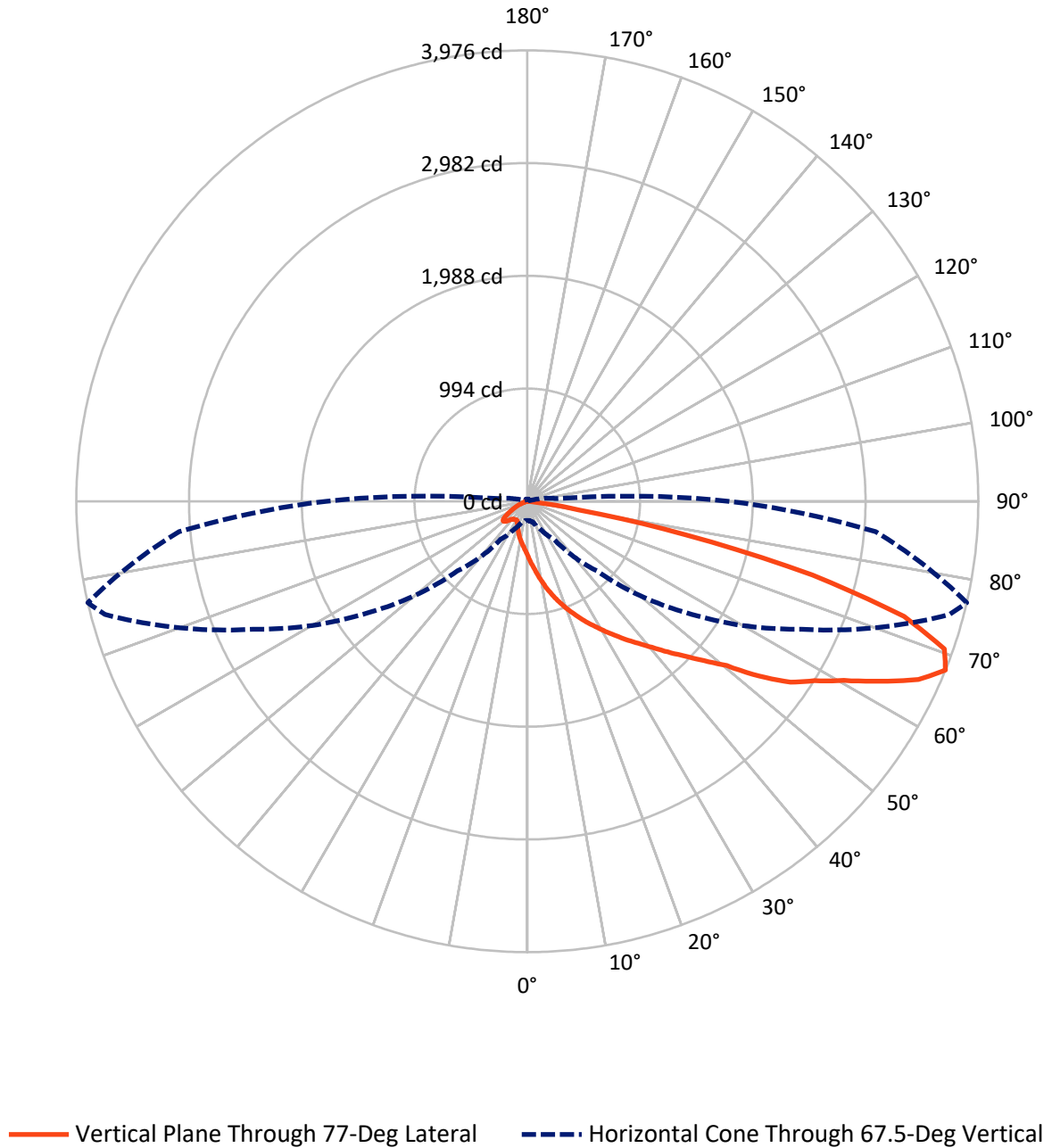
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	305.1	0.0	305.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	3841.9	0.0	3841.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	4147.0	0.0	4147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	1.2
10°-20°	170.9	4.1
20°-30°	329.8	8.0
30°-40°	572.6	13.8
40°-50°	831.4	20.0
50°-60°	954.8	23.0
60°-70°	828.9	20.0
70°-80°	390.4	9.4
80°-90°	19.3	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°	4147.0	100.0
0°-180°	4147.0	100.0

**Coefficient of Utilization**



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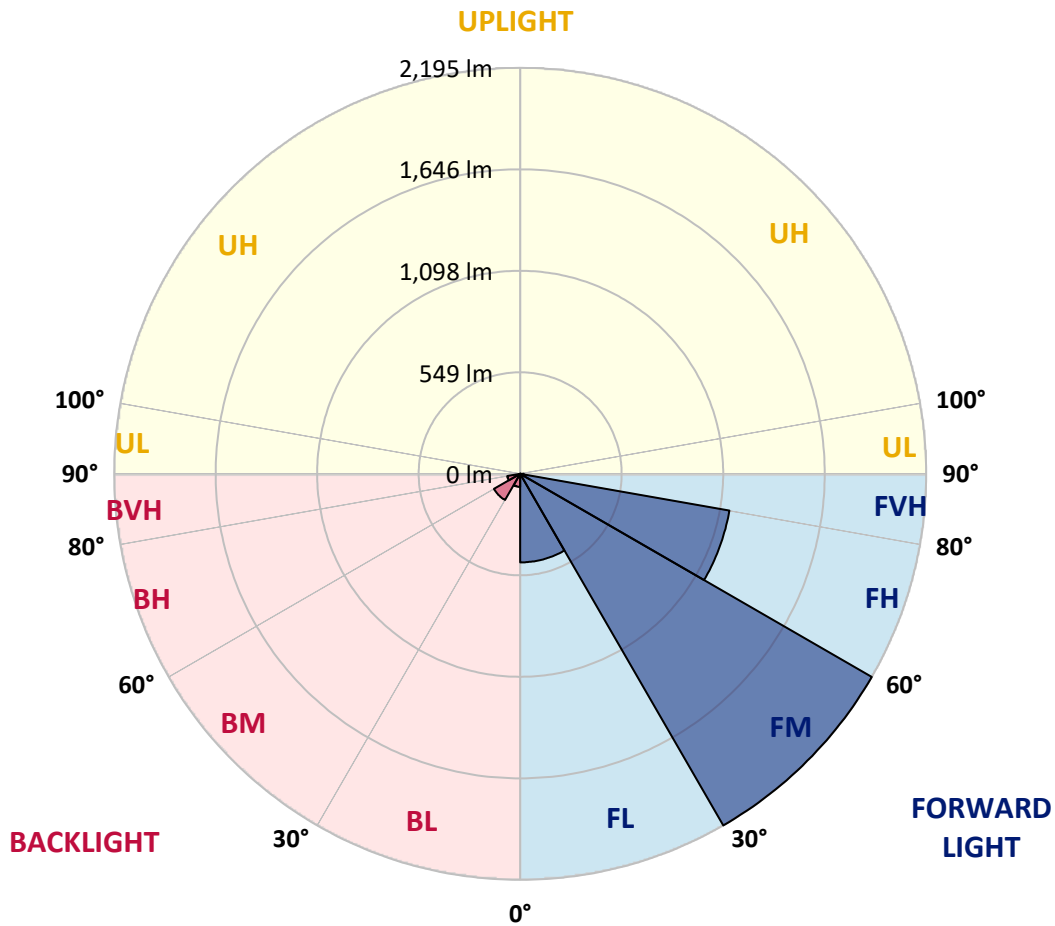
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.9	11.5			
FM (30°-60°)	2195.3	52.9			
FH (60°-80°)	1148.7	27.7			G1/1800
FVH (80°-90°)	19.0	0.5			G1/100
BL (0°-30°)	70.6	1.7	B0/110		
BM (30°-60°)	163.5	3.9	B0/220		
BH (60°-80°)	70.6	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°	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2
2.5°	662.1	666.2	660.3	648.9	631.9	620.9	593.8	568.3	540.0	531.0
5°	807.1	810.7	804.0	791.6	768.9	747.3	711.8	658.5	603.1	585.3
7.5°	914.4	916.5	913.9	902.6	881.0	856.5	816.8	753.8	671.6	652.0
10°	991.7	998.4	997.6	993.2	978.8	959.0	916.8	844.9	748.3	723.1
12.5°	1042.9	1050.4	1054.8	1064.6	1063.8	1051.2	1014.1	938.1	824.8	795.2
15°	1057.9	1065.9	1082.6	1105.3	1125.4	1131.8	1105.8	1029.6	909.0	871.2
17.5°	1049.4	1061.7	1081.8	1117.6	1161.7	1190.8	1187.9	1117.9	985.5	942.3
20°	1068.2	1080.0	1095.7	1125.9	1177.1	1229.9	1251.0	1202.3	1061.5	1016.2
22.5°	1172.2	1170.2	1171.7	1176.6	1207.2	1259.5	1303.0	1279.1	1136.7	1090.3
25°	1337.0	1327.8	1312.1	1285.5	1277.8	1303.0	1348.4	1347.1	1216.0	1166.3
27.5°	1526.0	1524.5	1487.7	1423.8	1387.8	1378.0	1399.6	1413.3	1294.5	1241.5
30°	1707.1	1711.2	1661.5	1590.4	1524.2	1485.9	1466.3	1476.1	1374.4	1322.6
32.5°	1864.7	1869.1	1815.0	1731.8	1649.9	1603.6	1562.4	1538.2	1461.4	1405.0
35°	1997.8	2002.2	1940.1	1848.2	1760.9	1718.9	1672.3	1606.1	1549.0	1496.4
37.5°	2116.8	2115.5	2032.3	1939.6	1853.9	1820.6	1796.2	1689.8	1639.1	1588.4
40°	2187.1	2192.5	2121.4	2019.2	1936.0	1911.8	1910.3	1793.6	1743.1	1694.0
42.5°	2207.7	2217.2	2165.7	2081.8	2006.3	1980.1	2020.5	1905.9	1864.2	1816.3
45°	2170.6	2179.9	2156.5	2098.3	2054.2	2037.2	2115.2	2022.3	1993.4	1946.1
47.5°	2062.5	2074.0	2079.7	2067.4	2066.8	2084.1	2200.2	2144.9	2146.9	2098.5
50°	1853.1	1872.7	1924.7	1968.5	2036.2	2121.2	2282.9	2277.7	2320.0	2278.3
52.5°	1472.5	1500.3	1679.5	1799.3	1951.5	2114.2	2373.8	2491.0	2623.6	2562.6
55°	1183.3	1183.3	1329.0	1553.1	1786.1	2068.4	2413.5	2629.5	2830.4	2816.0
57.5°	964.7	976.2	1069.2	1267.2	1546.9	1959.2	2437.9	2716.6	2997.0	2986.4
60°	595.4	620.4	796.0	991.4	1274.7	1764.8	2422.5	2804.6	3199.1	3207.6
62.5°	335.3	344.6	422.8	713.3	991.2	1503.4	2304.3	2853.8	3457.7	3493.7
65°	231.5	236.1	266.3	444.0	687.1	1196.9	2073.3	2823.2	3716.8	3789.6
67.5°	168.2	170.5	189.3	271.2	407.7	867.8	1711.2	2668.7	3854.0	3975.8
70°	129.3	130.8	144.5	178.2	240.8	535.6	1242.8	2361.4	3754.6	3900.1
72.5°	105.1	106.6	117.2	131.8	159.7	316.7	753.2	1917.7	3315.8	3472.9
75°	88.6	90.6	100.2	109.7	125.2	203.4	353.3	1335.5	2493.5	2596.5
77.5°	49.2	45.3	81.4	90.9	105.6	128.8	165.3	785.9	1396.5	1425.1
80°	30.6	31.7	64.6	73.1	81.1	64.9	75.7	302.6	484.1	459.9
82.5°	1.8	4.1	49.7	52.8	55.6	27.8	28.6	102.7	116.7	107.1
85°	0.0	0.0	22.7	18.3	19.3	8.0	8.2	23.9	15.7	17.0
87.5°	0.0	0.0	0.0	0.5	0.0	0.8	1.5	2.1	0.8	1.0
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°
478.2	0°	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2
502.7	2.5°	484.6	466.6	430.1	394.3	365.2	338.1	318.8	300.5	291.3	290.7
535.1	5°	499.3	461.5	388.3	323.7	271.7	230.0	202.9	183.6	173.8	170.5
575.0	7.5°	519.9	463.0	351.8	261.9	200.6	164.8	149.4	143.2	141.1	138.8
620.1	10°	545.9	466.6	319.1	210.9	158.1	140.1	133.9	131.3	129.8	128.2
670.8	12.5°	575.0	470.0	286.6	175.1	139.1	129.8	125.4	122.3	120.3	118.5
722.9	15°	603.4	472.0	252.9	150.1	129.3	121.8	117.2	113.8	111.0	108.9
773.8	17.5°	631.4	474.9	221.2	135.2	121.3	113.8	109.2	105.1	102.7	100.4
827.4	20°	662.6	474.3	191.3	124.6	113.3	105.8	100.9	97.1	94.8	92.2
884.1	22.5°	691.4	471.8	165.1	115.6	105.1	97.9	92.4	88.6	86.3	84.2
942.0	25°	724.7	469.7	143.2	107.4	97.3	90.1	84.2	80.6	78.0	76.2
1000.2	27.5°	756.6	466.6	127.2	99.9	89.9	82.9	77.3	73.1	70.8	69.5
1060.2	30°	788.0	465.8	121.3	92.7	83.2	76.2	70.6	66.7	64.9	64.4
1126.1	32.5°	825.9	467.9	123.9	90.1	77.0	70.0	64.6	61.8	60.0	60.0
1199.5	35°	866.3	467.4	127.7	92.4	72.9	63.9	59.7	57.9	56.1	56.1
1280.9	37.5°	917.0	468.2	130.8	96.3	71.3	58.7	56.4	54.1	53.0	53.0
1370.0	40°	992.7	493.7	129.3	99.7	70.8	55.1	50.5	49.7	48.9	48.9
1470.7	42.5°	1085.4	549.0	131.3	99.9	70.6	52.5	46.4	47.9	46.1	45.8
1584.2	45°	1186.9	609.5	144.5	94.5	70.3	51.2	44.3	46.1	43.3	43.3
1715.8	47.5°	1287.6	669.5	157.9	86.8	69.5	51.0	42.5	41.5	40.7	40.9
1887.3	50°	1426.4	718.5	163.0	76.2	67.7	50.5	39.1	39.4	38.9	39.4
2129.2	52.5°	1577.6	728.8	156.8	64.4	62.6	48.9	36.8	37.9	37.6	38.1
2299.4	55°	1671.8	717.7	129.5	53.6	54.6	42.7	34.5	36.6	36.6	36.6
2465.7	57.5°	1769.1	670.6	91.9	43.5	45.3	35.0	32.4	35.3	35.0	34.8
2666.1	60°	1839.2	594.4	60.5	35.8	36.1	28.8	30.1	33.2	33.0	31.7
2872.6	62.5°	1891.5	510.1	38.9	30.4	27.6	26.0	27.6	30.1	29.1	26.3
3047.7	65°	1885.5	393.5	29.9	26.0	22.7	22.7	23.9	26.3	23.2	18.5
3081.2	67.5°	1775.6	266.3	24.7	21.9	19.1	18.8	19.8	21.9	19.8	15.7
2909.7	70°	1579.1	174.1	19.8	17.0	15.2	13.9	16.0	18.8	16.7	12.6
2477.1	72.5°	1281.7	106.1	14.9	12.4	11.1	9.0	12.6	15.5	13.4	9.3
1722.5	75°	829.2	54.1	10.3	8.0	5.9	5.4	9.3	11.6	9.3	5.7
764.3	77.5°	317.3	22.7	5.7	3.6	3.1	2.6	5.2	7.0	3.9	1.3
148.1	80°	61.0	9.5	2.8	1.8	1.5	1.0	0.8	0.5	0.0	0.0
26.3	82.5°	10.6	3.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5.2	85°	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	87.5°	1.3	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>
478.2
290.2
170.0
138.3
127.7
117.9
108.7
100.2
91.9
84.0
76.0
69.5
64.1
60.0
56.1
53.0
48.9
45.6
43.3
40.9
39.4
38.1
36.6
34.8
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25.8
18.0
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