

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: P946880

Luminaire Tested: **GALN-SB2B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946880
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-SB2B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA 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: 5804 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

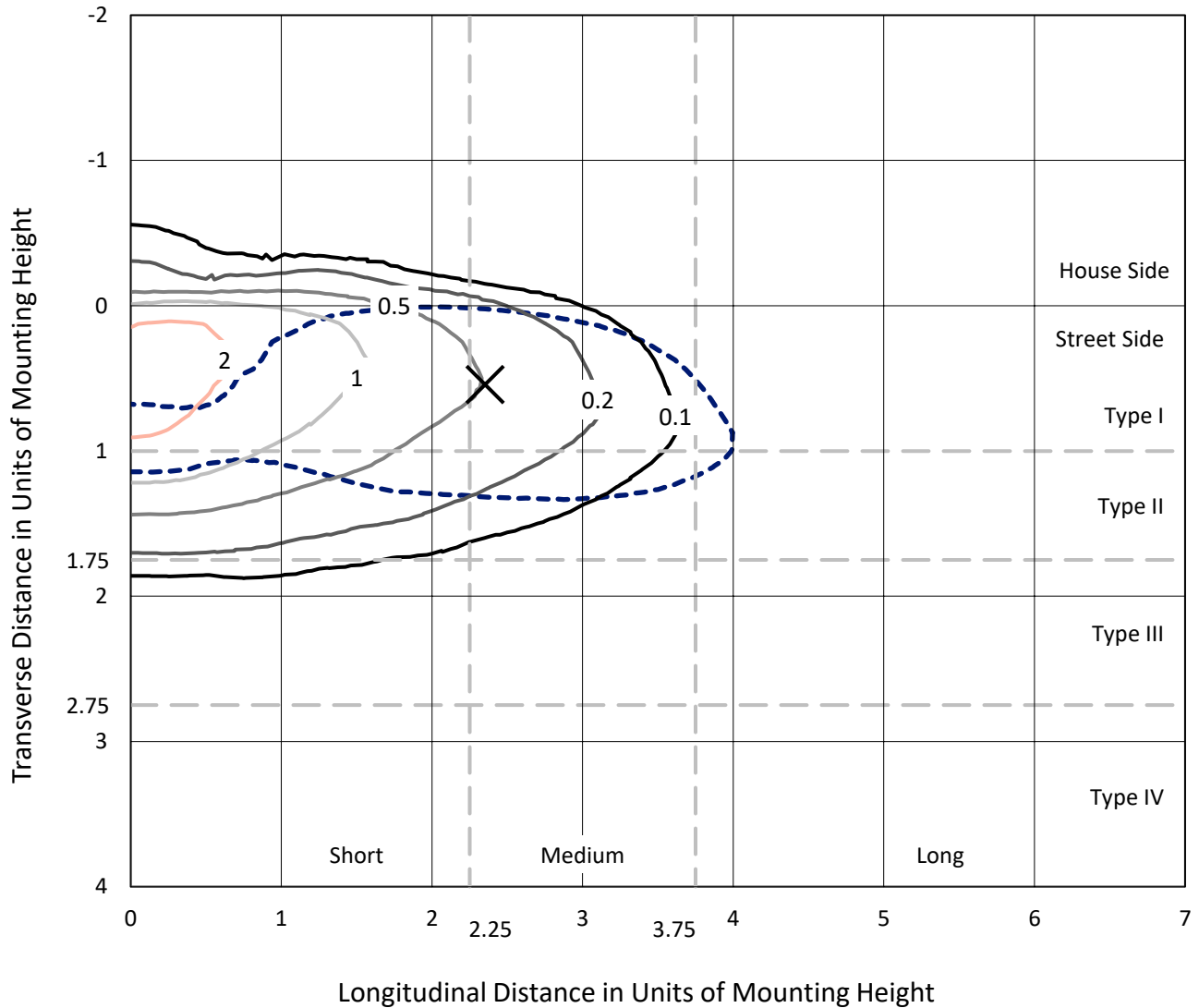
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

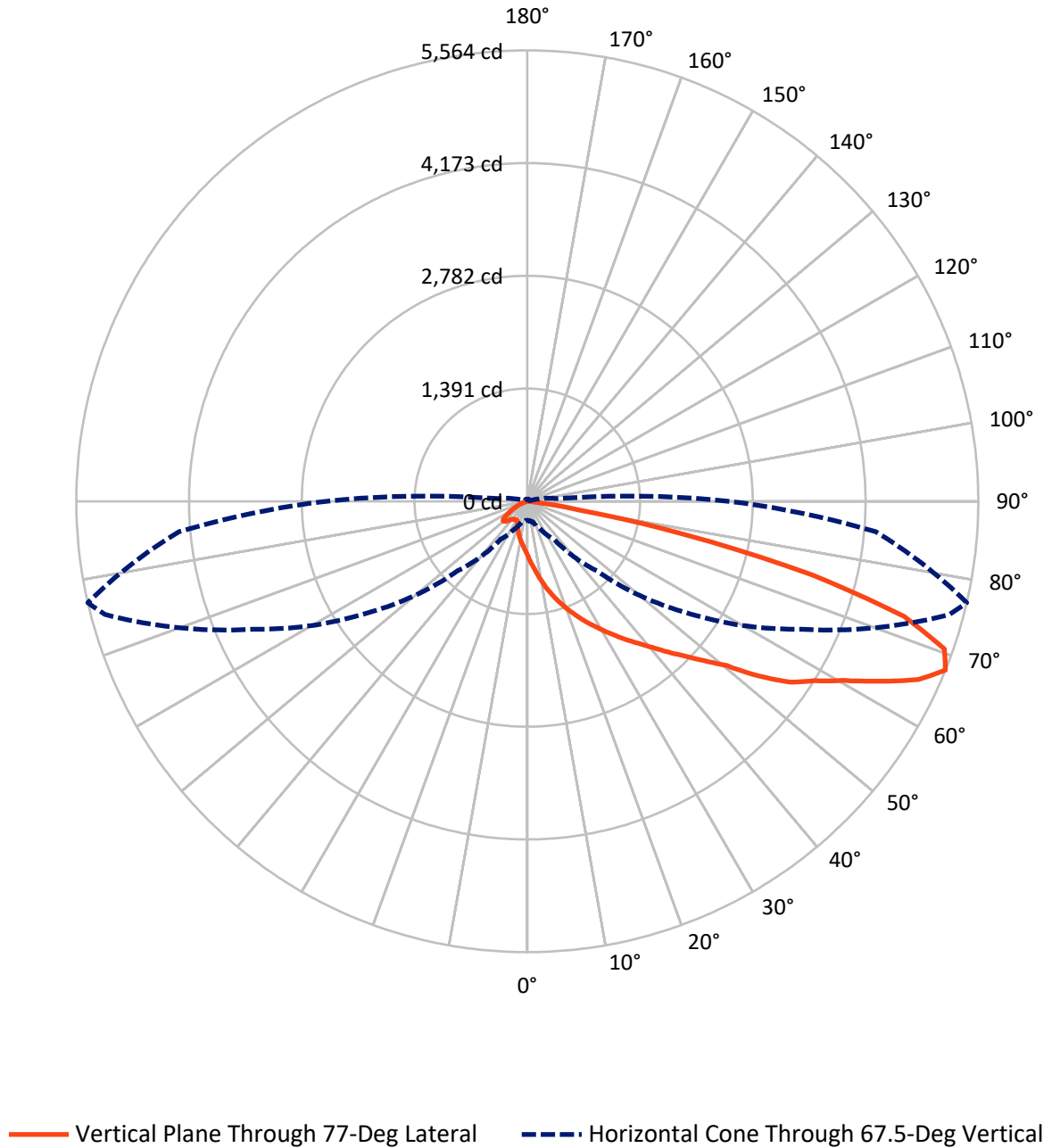
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	427.0	0.0	427.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5377.0	0.0	5377.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	5804.0	0.0	5804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.2
10°-20°	239.2	4.1
20°-30°	461.6	8.0
30°-40°	801.4	13.8
40°-50°	1163.6	20.0
50°-60°	1336.3	23.0
60°-70°	1160.1	20.0
70°-80°	546.4	9.4
80°-90°	27.0	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°	5804.0	100.0
0°-180°	5804.0	100.0

Coefficient of Utilization



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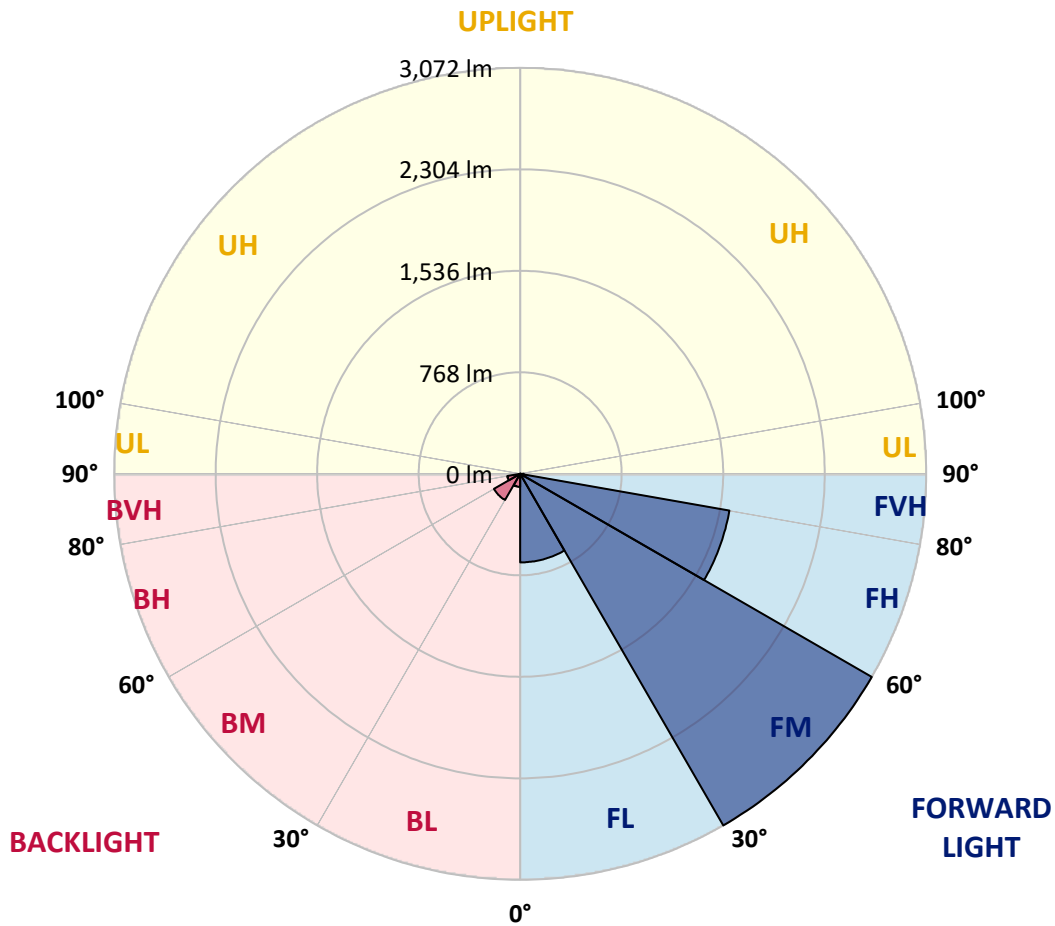
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.3	11.5			
FM (30°-60°)	3072.5	52.9			
FH (60°-80°)	1607.7	27.7			G1/1800
FVH (80°-90°)	26.5	0.5			G1/100
BL (0°-30°)	98.9	1.7	B0/110		
BM (30°-60°)	228.8	3.9	B1/1000		
BH (60°-80°)	98.9	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3
2.5°	926.6	932.4	924.1	908.2	884.5	869.0	831.1	795.4	755.8	743.2
5°	1129.5	1134.6	1125.2	1107.9	1076.2	1045.9	996.2	921.6	844.1	819.2
7.5°	1279.8	1282.7	1279.1	1263.2	1233.0	1198.7	1143.2	1054.9	940.0	912.6
10°	1387.9	1397.3	1396.2	1390.1	1369.9	1342.2	1283.1	1182.5	1047.4	1012.0
12.5°	1459.7	1470.1	1476.3	1489.9	1488.9	1471.2	1419.3	1313.0	1154.4	1113.0
15°	1480.6	1491.7	1515.2	1546.9	1575.0	1584.0	1547.6	1440.9	1272.3	1219.3
17.5°	1468.7	1486.0	1514.1	1564.2	1625.8	1666.5	1662.6	1564.6	1379.3	1318.8
20°	1495.0	1511.6	1533.6	1575.7	1647.4	1721.3	1750.9	1682.8	1485.6	1422.2
22.5°	1640.6	1637.7	1639.9	1646.7	1689.6	1762.8	1823.7	1790.2	1590.9	1526.0
25°	1871.3	1858.3	1836.3	1799.2	1788.4	1823.7	1887.1	1885.3	1701.9	1632.3
27.5°	2135.8	2133.6	2082.1	1992.7	1942.3	1928.6	1958.8	1977.9	1811.8	1737.5
30°	2389.2	2394.9	2325.4	2225.9	2133.3	2079.6	2052.2	2065.9	1923.5	1851.1
32.5°	2609.7	2615.9	2540.2	2423.8	2309.2	2244.3	2186.6	2152.7	2045.3	1966.4
35°	2796.1	2802.2	2715.3	2586.7	2464.5	2405.8	2340.5	2247.9	2167.9	2094.4
37.5°	2962.6	2960.8	2844.4	2714.6	2594.6	2548.1	2513.9	2365.0	2294.0	2223.0
40°	3061.0	3068.6	2969.1	2826.0	2709.6	2675.7	2673.5	2510.3	2439.6	2370.8
42.5°	3089.8	3103.2	3031.1	2913.6	2808.0	2771.2	2827.8	2667.4	2609.0	2542.0
45°	3037.9	3050.9	3018.1	2936.6	2875.0	2851.2	2960.4	2830.3	2790.0	2723.6
47.5°	2886.5	2902.8	2910.7	2893.4	2892.7	2916.8	3079.4	3001.9	3004.8	2937.0
50°	2593.5	2620.9	2693.7	2755.0	2849.8	2968.7	3195.1	3187.9	3247.0	3188.6
52.5°	2060.8	2099.8	2350.6	2518.2	2731.2	2959.0	3322.3	3486.3	3671.9	3586.5
55°	1656.1	1656.1	1860.1	2173.6	2499.8	2894.8	3377.8	3680.2	3961.3	3941.1
57.5°	1350.1	1366.3	1496.4	1773.6	2165.0	2742.0	3412.0	3802.0	4194.5	4179.7
60°	833.3	868.2	1114.0	1387.6	1784.0	2469.9	3390.4	3925.3	4477.4	4489.3
62.5°	469.3	482.2	591.8	998.3	1387.2	2104.1	3225.0	3994.1	4839.3	4889.7
65°	324.0	330.5	372.7	621.4	961.6	1675.2	2901.7	3951.2	5201.8	5303.8
67.5°	235.3	238.6	264.9	379.5	570.5	1214.6	2394.9	3735.0	5393.9	5564.4
70°	180.9	183.1	202.2	249.4	337.0	749.7	1739.4	3305.0	5254.8	5458.5
72.5°	147.0	149.2	164.0	184.5	223.5	443.3	1054.2	2684.0	4640.7	4860.5
75°	124.0	126.9	140.2	153.5	175.2	284.7	494.5	1869.1	3489.9	3634.0
77.5°	68.8	63.4	113.9	127.2	147.8	180.2	231.4	1100.0	1954.5	1994.5
80°	42.9	44.3	90.5	102.4	113.5	90.8	106.0	423.5	677.6	643.7
82.5°	2.5	5.8	69.6	73.9	77.8	38.9	40.0	143.8	163.3	149.9
85°	0.0	0.0	31.7	25.6	27.0	11.2	11.5	33.5	22.0	23.8
87.5°	0.0	0.0	0.0	0.7	0.0	1.1	2.2	2.9	1.1	1.4
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°
669.3	0°	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3
703.5	2.5°	678.3	653.1	601.9	551.8	511.1	473.2	446.2	420.6	407.6	406.9
748.9	5°	698.8	645.9	543.5	453.0	380.2	321.8	284.0	257.0	243.3	238.6
804.8	7.5°	727.7	648.0	492.3	366.5	280.8	230.7	209.0	200.4	197.5	194.3
867.9	10°	764.1	653.1	446.6	295.2	221.3	196.1	187.4	183.8	181.6	179.5
938.9	12.5°	804.8	657.8	401.1	245.1	194.6	181.6	175.5	171.2	168.3	165.8
1011.7	15°	844.4	660.6	353.9	210.1	180.9	170.5	164.0	159.3	155.3	152.5
1083.0	17.5°	883.7	664.6	309.6	189.2	169.8	159.3	152.8	147.0	143.8	140.6
1158.0	20°	927.3	663.9	267.8	174.4	158.6	148.1	141.3	135.9	132.6	129.0
1237.3	22.5°	967.7	660.3	231.0	161.8	147.0	137.0	129.4	124.0	120.7	117.9
1318.4	25°	1014.2	657.4	200.4	150.3	136.2	126.1	117.9	112.8	109.2	106.7
1399.8	27.5°	1058.9	653.1	178.0	139.8	125.8	116.1	108.1	102.4	99.1	97.3
1483.8	30°	1102.9	652.0	169.8	129.7	116.4	106.7	98.8	93.3	90.8	90.1
1576.1	32.5°	1155.8	654.9	173.4	126.1	107.8	98.0	90.5	86.5	84.0	84.0
1678.8	35°	1212.4	654.1	178.8	129.4	102.0	89.4	83.6	81.1	78.6	78.6
1792.7	37.5°	1283.4	655.2	183.1	134.8	99.8	82.2	78.9	75.7	74.2	74.2
1917.4	40°	1389.4	690.9	180.9	139.5	99.1	77.1	70.6	69.6	68.5	68.5
2058.3	42.5°	1519.1	768.4	183.8	139.8	98.8	73.5	64.9	67.0	64.5	64.2
2217.3	45°	1661.1	853.1	202.2	132.3	98.4	71.7	62.0	64.5	60.5	60.5
2401.4	47.5°	1802.1	937.1	220.9	121.5	97.3	71.4	59.5	58.0	56.9	57.3
2641.5	50°	1996.3	1005.6	228.1	106.7	94.8	70.6	54.8	55.1	54.4	55.1
2979.9	52.5°	2207.9	1020.0	219.5	90.1	87.6	68.5	51.5	53.0	52.6	53.3
3218.1	55°	2339.8	1004.5	181.3	75.0	76.4	59.8	48.3	51.2	51.2	51.2
3451.0	57.5°	2476.0	938.5	128.7	60.9	63.4	49.0	45.4	49.4	49.0	48.7
3731.4	60°	2574.1	831.8	84.7	50.1	50.5	40.4	42.2	46.5	46.1	44.3
4020.4	62.5°	2647.2	714.0	54.4	42.5	38.6	36.4	38.6	42.2	40.7	36.8
4265.5	65°	2638.9	550.7	41.8	36.4	31.7	31.7	33.5	36.8	32.4	25.9
4312.3	67.5°	2485.0	372.7	34.6	30.6	26.7	26.3	27.8	30.6	27.8	22.0
4072.3	70°	2210.1	243.6	27.8	23.8	21.3	19.5	22.3	26.3	23.4	17.7
3466.8	72.5°	1793.8	148.5	20.9	17.3	15.5	12.6	17.7	21.6	18.7	13.0
2410.8	75°	1160.5	75.7	14.4	11.2	8.3	7.6	13.0	16.2	13.0	7.9
1069.7	77.5°	444.0	31.7	7.9	5.0	4.3	3.6	7.2	9.7	5.4	1.8
207.2	80°	85.4	13.3	4.0	2.5	2.2	1.4	1.1	0.7	0.0	0.0
36.8	82.5°	14.8	4.3	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.2	85°	5.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	1.8	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>
669.3
406.2
237.9
193.5
178.8
165.1
152.1
140.2
128.7
117.5
106.3
97.3
89.7
84.0
78.6
74.2
68.5
63.8
60.5
57.3
55.1
53.3
51.2
48.7
44.3
36.0
25.2
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