

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: P946768

Luminaire Tested: **GALN-SB2B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9733 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

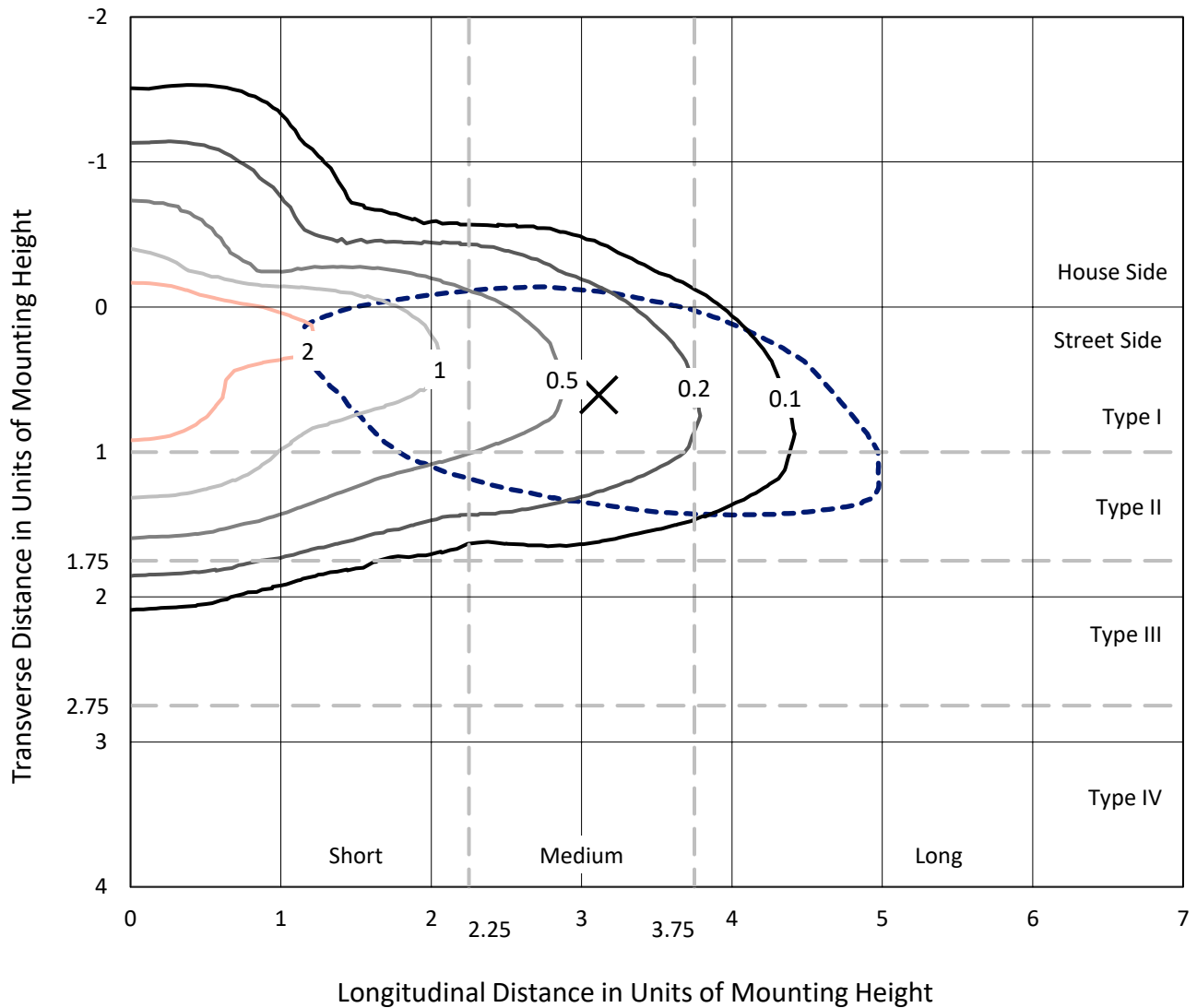
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

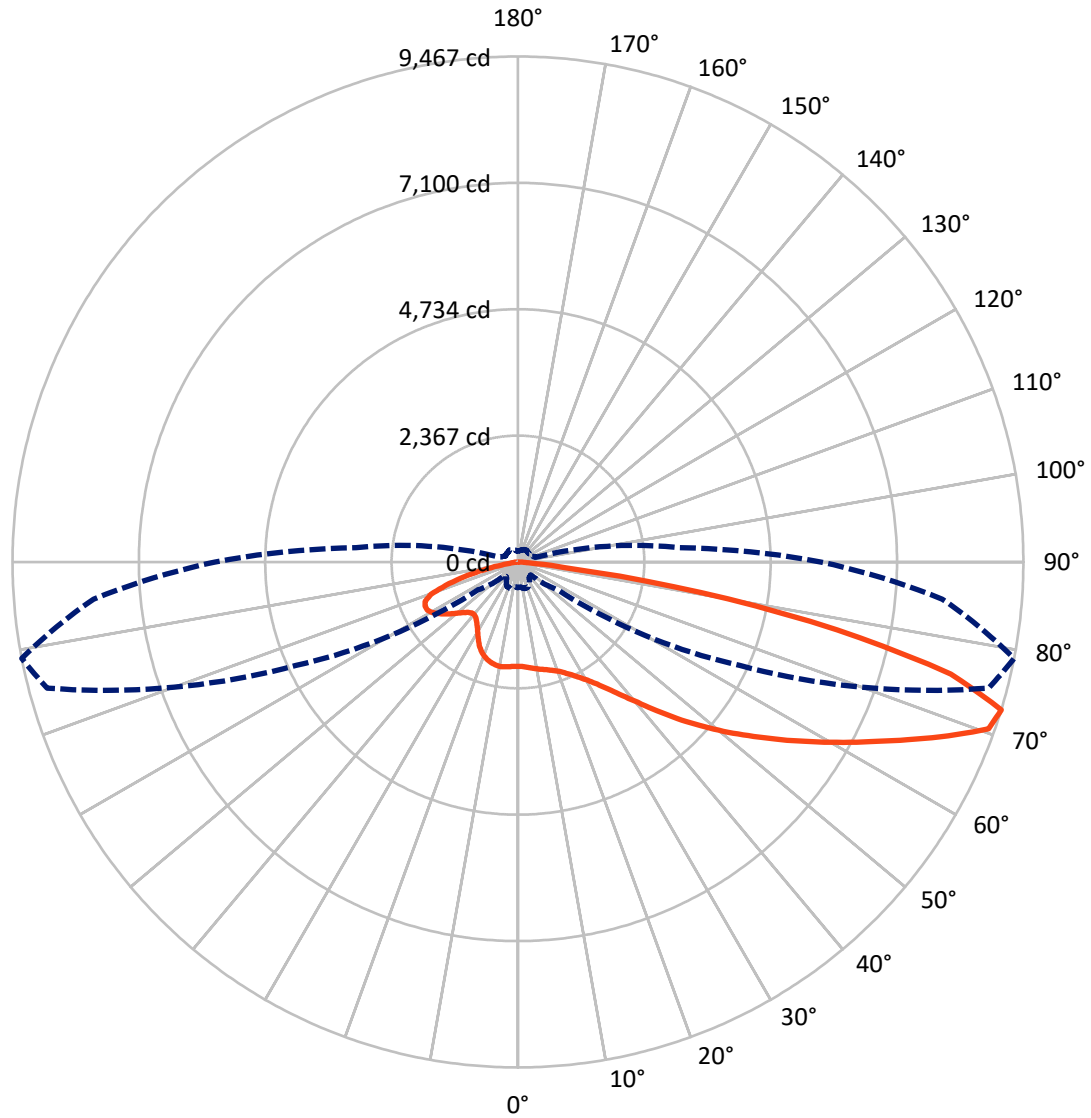
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.8	0.0	2141.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7591.2	0.0	7591.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	9733.0	0.0	9733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.8
10°-20°	463.7	4.8
20°-30°	748.2	7.7
30°-40°	1122.9	11.5
40°-50°	1592.9	16.4
50°-60°	2011.7	20.7
60°-70°	2043.1	21.0
70°-80°	1392.5	14.3
80°-90°	180.7	1.9
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°	9733.0	100.0
0°-180°	9733.0	100.0

Coefficient of Utilization



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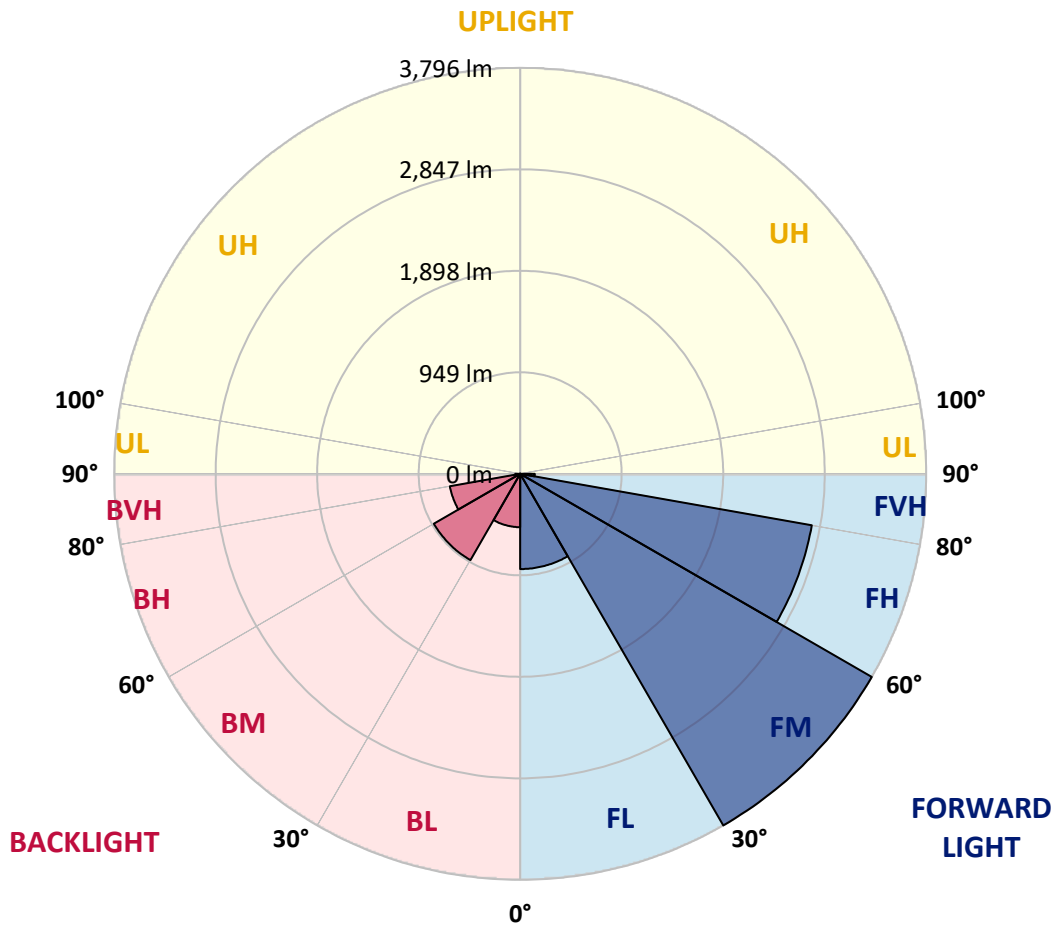
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.3	9.1			
FM (30°-60°)	3796.1	39.0			
FH (60°-80°)	2768.7	28.4			G2/5000
FVH (80°-90°)	136.1	1.4			G2/225
BL (0°-30°)	498.9	5.1	B1/500		
BM (30°-60°)	931.5	9.6	B1/1000		
BH (60°-80°)	666.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8
2.5°	1954.8	1945.6	1951.2	1949.2	1951.7	1954.8	1955.9	1957.4	1962.6	1962.0
5°	1950.7	1941.5	1949.2	1946.6	1953.3	1960.5	1966.7	1972.3	1980.6	1984.2
7.5°	1942.0	1935.8	1943.5	1951.2	1963.6	1974.4	1983.2	1996.0	2007.9	2009.9
10°	1891.0	1886.4	1904.4	1924.5	1958.4	1987.8	2006.8	2021.8	2034.6	2036.7
12.5°	1838.0	1832.3	1852.4	1879.7	1934.8	1987.8	2027.9	2047.5	2058.8	2065.5
15°	1829.2	1824.6	1835.9	1859.6	1905.4	1973.9	2042.4	2078.4	2088.2	2095.9
17.5°	1871.4	1862.7	1867.3	1875.6	1902.3	1961.0	2053.7	2113.4	2128.3	2136.6
20°	1969.3	1956.9	1949.7	1933.2	1928.6	1963.1	2052.7	2155.6	2175.2	2185.5
22.5°	2099.5	2091.3	2075.8	2034.1	1988.8	1988.3	2072.2	2209.7	2246.2	2256.0
25°	2257.0	2244.7	2225.1	2168.5	2081.5	2038.2	2105.2	2278.7	2339.9	2342.5
27.5°	2438.3	2419.7	2393.0	2318.3	2200.9	2116.5	2155.6	2358.0	2447.5	2446.5
30°	2629.3	2610.7	2582.4	2491.8	2344.1	2222.0	2225.6	2443.4	2575.2	2569.6
32.5°	2768.8	2754.9	2749.2	2679.2	2508.8	2346.6	2306.0	2538.1	2732.8	2727.6
35°	2875.9	2857.9	2864.6	2829.0	2688.5	2486.1	2404.3	2650.9	2924.3	2923.8
37.5°	2981.9	2966.0	2971.6	2948.0	2854.8	2663.3	2524.2	2788.9	3161.6	3172.9
40°	3078.7	3061.7	3084.4	3062.3	2984.0	2851.7	2660.7	2944.9	3436.5	3458.2
42.5°	3136.9	3123.5	3161.1	3161.6	3096.2	3010.8	2810.5	3116.8	3754.7	3803.1
45°	3157.0	3152.3	3209.0	3220.8	3195.6	3102.9	2945.4	3304.2	4097.6	4184.1
47.5°	3135.4	3126.6	3204.9	3248.6	3268.7	3146.2	3057.1	3507.1	4447.7	4574.3
50°	3026.2	3009.2	3125.6	3217.7	3289.3	3174.5	3169.9	3741.3	4845.6	4984.1
52.5°	2830.1	2817.2	2949.5	3109.6	3244.0	3188.4	3296.5	3997.2	5223.5	5402.7
55°	2579.3	2562.3	2708.0	2917.1	3131.2	3183.8	3423.2	4283.4	5669.4	5851.1
57.5°	2181.9	2147.9	2332.2	2579.3	2947.4	3178.1	3555.0	4568.2	6122.4	6340.2
60°	1602.2	1551.7	1777.7	2070.7	2588.1	3123.0	3718.2	4887.3	6666.1	6862.3
62.5°	932.9	903.5	1051.3	1324.7	1950.7	2798.7	3809.8	5258.5	7200.5	7406.4
65°	724.4	716.1	729.0	750.1	1085.8	2095.4	3527.1	5620.5	7880.1	8024.3
67.5°	662.6	656.4	662.1	622.4	550.9	1167.1	2790.4	5712.1	8608.1	8695.6
70°	589.0	581.8	600.3	566.3	433.5	530.8	1803.0	5379.5	9187.3	9351.5
72.5°	479.8	471.6	514.8	499.4	365.0	340.8	905.6	4589.3	9126.5	9467.3
75°	368.6	364.0	415.5	428.3	297.6	268.2	434.5	3411.3	8031.5	8374.9
77.5°	286.2	282.6	308.9	355.8	239.9	208.0	267.2	2163.9	6052.4	6112.7
80°	214.7	204.4	228.6	275.4	186.9	151.9	181.2	1261.9	3825.8	3467.9
82.5°	134.4	129.2	149.3	183.8	131.8	104.5	117.9	697.1	1533.2	903.0
85°	76.7	74.7	81.3	105.0	71.6	60.2	67.4	307.9	280.1	192.5
87.5°	30.9	29.9	37.1	46.9	26.3	22.1	23.7	74.1	61.8	57.1
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°
1953.8	0°	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8	1953.8
1961.5	2.5°	1959.5	1959.5	1952.3	1940.9	1928.1	1919.8	1906.4	1902.8	1888.9	1884.8
1979.0	5°	1983.2	1979.0	1956.9	1925.0	1881.2	1841.1	1796.8	1769.0	1729.9	1716.0
2013.5	7.5°	2013.0	2001.7	1963.6	1893.6	1801.9	1711.8	1618.1	1547.1	1479.1	1454.9
2041.8	10°	2040.3	2024.3	1959.5	1836.9	1678.4	1522.4	1373.1	1268.6	1189.3	1156.8
2073.2	12.5°	2067.6	2038.2	1932.2	1742.7	1502.8	1291.2	1132.1	1050.8	1001.9	962.7
2099.0	15°	2093.3	2052.1	1890.0	1616.6	1310.3	1095.6	978.2	913.3	874.2	848.5
2136.6	17.5°	2123.2	2064.0	1826.6	1456.5	1127.0	960.2	864.4	825.3	817.6	814.5
2188.1	20°	2164.9	2074.8	1743.2	1277.3	992.1	852.1	802.6	799.0	798.5	797.0
2249.8	22.5°	2209.7	2087.7	1633.1	1114.6	877.3	784.6	775.9	768.7	764.0	763.5
2324.5	25°	2262.7	2091.8	1495.1	981.3	779.5	752.7	742.4	731.6	728.5	728.5
2409.4	27.5°	2314.2	2077.9	1334.5	865.4	724.4	723.3	710.0	706.4	705.8	707.4
2506.2	30°	2365.7	2051.6	1174.9	758.4	692.5	692.5	687.8	690.4	692.5	697.6
2639.1	32.5°	2435.2	2023.8	1041.5	679.1	664.7	659.5	664.1	669.3	671.3	678.0
2813.6	35°	2537.1	2004.3	935.5	635.8	635.8	629.1	631.7	630.7	626.0	623.0
3024.7	37.5°	2672.0	2003.2	847.9	615.7	611.6	610.6	611.1	604.4	586.4	564.8
3280.0	40°	2834.2	2031.0	780.5	601.8	598.8	604.9	601.8	583.8	534.4	496.8
3594.1	42.5°	3052.0	2110.3	737.2	584.9	594.1	601.8	589.5	527.2	493.7	468.5
3951.9	45°	3308.3	2239.0	715.1	566.8	585.4	594.6	534.9	507.6	480.9	450.5
4342.1	47.5°	3598.7	2401.2	710.0	549.8	565.8	571.5	511.7	499.4	469.0	436.1
4734.4	50°	3914.8	2593.2	723.9	529.8	537.5	517.9	504.0	492.7	461.3	428.9
5136.5	52.5°	4241.7	2804.8	751.7	502.5	509.2	487.6	500.9	491.2	456.7	412.9
5552.0	55°	4563.0	3018.0	778.4	470.6	480.3	460.3	492.2	485.0	435.6	386.1
5995.3	57.5°	4889.4	3230.1	804.7	442.2	452.5	434.0	478.3	468.5	411.9	361.4
6479.2	60°	5228.7	3436.0	817.0	415.0	422.2	409.8	457.2	440.2	385.1	336.2
6954.9	62.5°	5546.3	3607.5	797.0	387.7	392.3	387.2	429.4	406.7	358.3	307.9
7450.7	65°	5865.0	3709.4	735.2	360.9	361.9	359.4	390.2	370.7	326.9	283.2
7884.7	67.5°	6153.8	3766.5	636.9	332.1	329.5	328.5	353.7	331.6	296.5	258.4
8214.7	70°	6215.1	3621.4	486.5	298.1	298.1	295.5	313.5	290.9	263.1	232.2
7978.4	72.5°	5676.6	3046.3	345.5	259.5	263.6	258.4	273.4	254.3	229.1	208.5
6876.2	75°	4577.4	2233.9	251.2	219.8	227.0	218.3	232.2	218.8	197.2	196.7
4738.6	77.5°	3145.1	1381.3	182.3	181.2	186.4	175.0	191.0	183.8	164.2	155.5
2062.4	80°	1342.2	550.9	132.8	140.0	140.0	129.7	148.3	150.3	133.3	129.2
398.0	82.5°	267.2	156.5	93.2	96.3	90.6	87.5	105.0	116.4	160.6	178.6
120.0	85°	80.3	57.7	56.1	52.5	46.3	46.9	61.8	116.9	144.2	82.4
39.6	87.5°	22.1	14.4	14.9	11.8	9.8	12.9	21.1	88.6	48.4	20.6
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

180°
1953.8
1891.5
1726.2
1458.0
1164.0
975.6
853.1
816.5
802.1
769.2
731.6
711.5
701.2
683.7
630.2
565.3
495.8
467.5
448.4
433.5
425.3
409.8
383.6
360.4
334.6
307.4
280.1
255.4
231.2
202.3
177.1
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129.2
179.2
71.0
17.5
0.0

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