

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: P947127

Luminaire Tested: **GALN-SB2C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12728 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

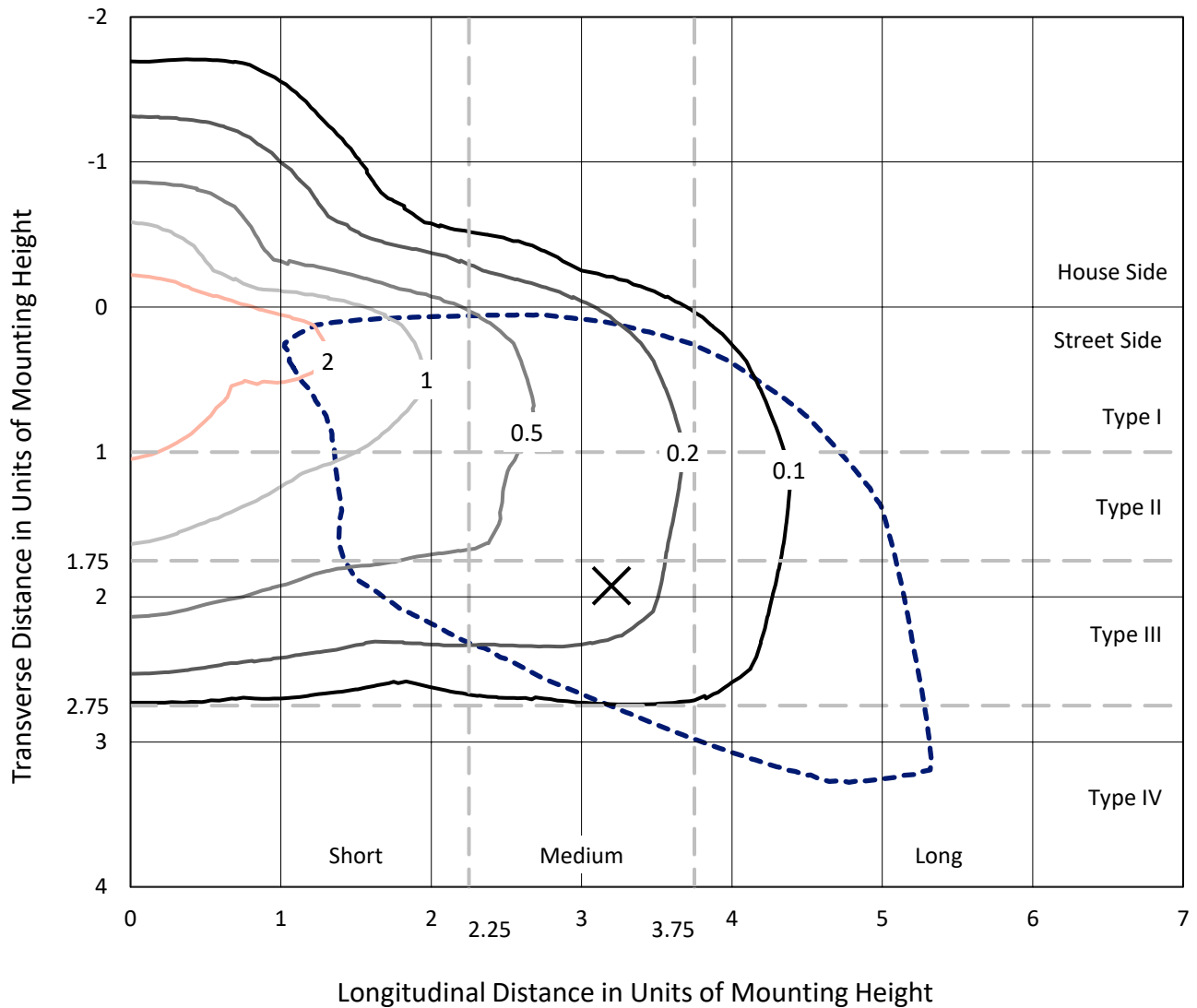
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

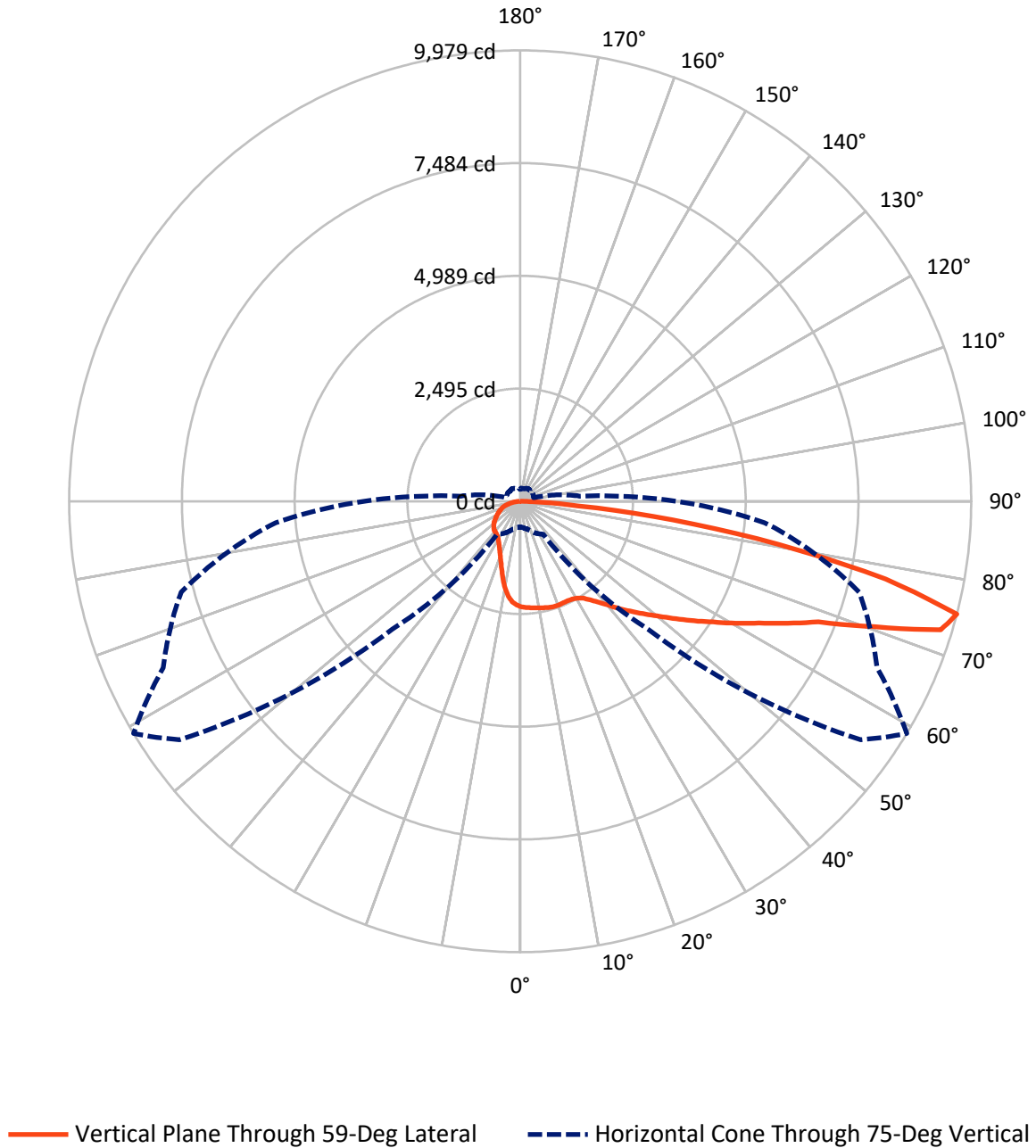
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.2	0.0	2387.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10340.8	0.0	10340.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	12728.0	0.0	12728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.6
10°-20°	535.4	4.2
20°-30°	813.3	6.4
30°-40°	1208.9	9.5
40°-50°	1797.9	14.1
50°-60°	2440.4	19.2
60°-70°	2979.4	23.4
70°-80°	2338.2	18.4
80°-90°	405.0	3.2
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°	12728.0	100.0
0°-180°	12728.0	100.0

Coefficient of Utilization



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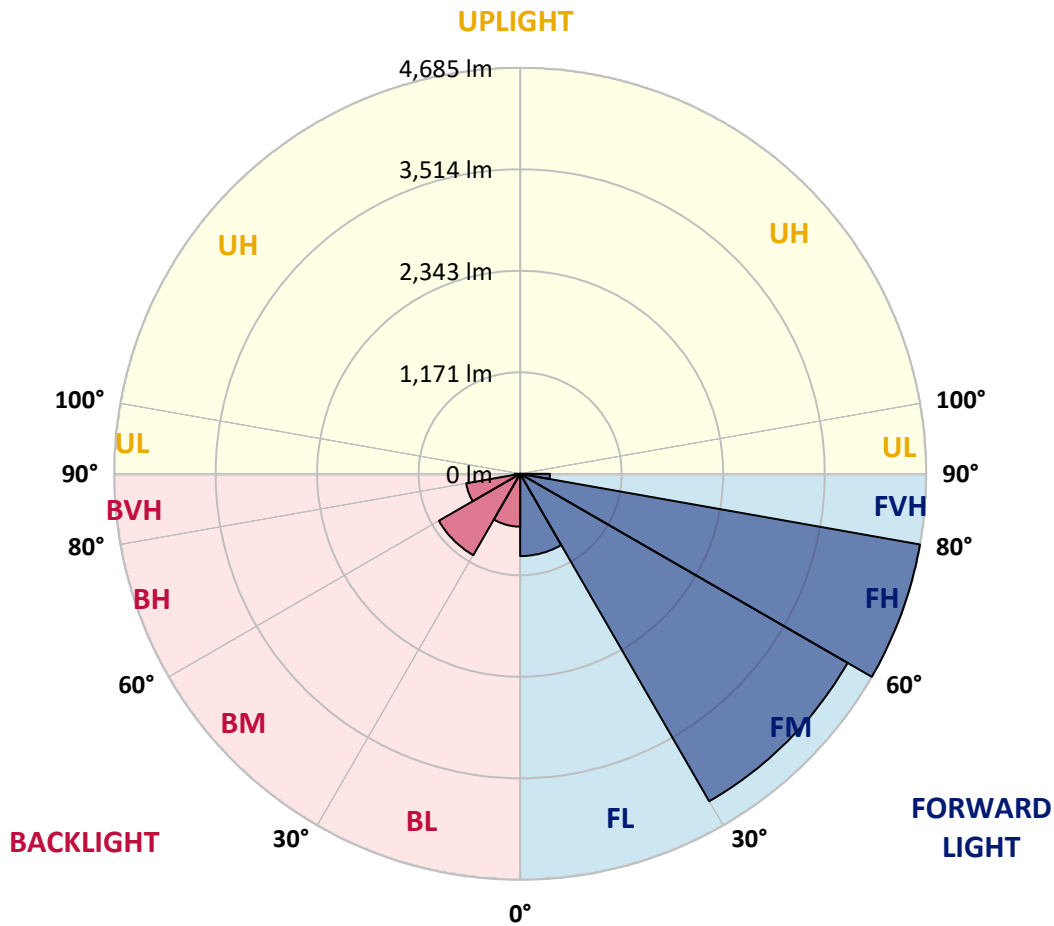
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.0	7.5			
FM (30°-60°)	4363.7	34.3			
FH (60°-80°)	4685.0	36.8			G2/5000
FVH (80°-90°)	343.0	2.7			G3/500
BL (0°-30°)	609.2	4.8	B2/1000		
BM (30°-60°)	1083.6	8.5	B2/2500		
BH (60°-80°)	632.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	62.0	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2
2.5°	2356.1	2347.8	2356.1	2352.6	2351.3	2348.5	2349.2	2354.0	2351.3	2354.7
5°	2340.3	2335.5	2343.7	2341.7	2350.6	2351.9	2360.8	2366.3	2369.7	2370.4
7.5°	2314.3	2309.5	2321.1	2330.7	2349.9	2355.4	2373.9	2382.8	2387.5	2395.8
10°	2219.1	2217.1	2245.8	2282.1	2327.3	2355.4	2383.4	2398.5	2406.0	2427.9
12.5°	2050.7	2053.4	2091.1	2160.9	2251.3	2341.7	2394.4	2416.3	2427.9	2455.3
15°	1889.8	1889.1	1930.2	2004.8	2131.5	2281.4	2399.9	2437.5	2457.4	2497.8
17.5°	1796.7	1793.9	1822.7	1879.5	1997.3	2189.0	2386.2	2449.2	2491.6	2542.3
20°	1779.5	1774.1	1789.1	1817.2	1900.7	2087.6	2350.6	2449.2	2519.0	2584.7
22.5°	1841.8	1832.9	1826.8	1823.4	1860.3	2004.1	2310.2	2441.0	2559.4	2645.7
25°	1967.1	1953.4	1922.0	1891.1	1880.2	1966.5	2274.6	2438.9	2619.7	2727.8
27.5°	2169.8	2152.7	2089.0	2015.1	1948.7	1985.6	2258.8	2451.2	2686.1	2814.8
30°	2421.1	2402.6	2322.5	2208.8	2089.7	2056.8	2278.7	2487.5	2771.0	2930.5
32.5°	2646.4	2625.8	2557.4	2441.6	2280.7	2180.1	2341.7	2556.7	2904.5	3091.4
35°	2846.3	2822.3	2760.7	2653.9	2514.9	2353.3	2455.3	2679.2	3094.2	3353.0
37.5°	3042.1	3014.0	2946.9	2834.0	2736.7	2584.1	2612.1	2836.7	3346.1	3670.7
40°	3261.2	3220.8	3139.3	3027.7	2933.3	2854.5	2818.2	3029.8	3602.2	4025.4
42.5°	3473.5	3435.1	3337.9	3242.7	3124.3	3101.7	3057.2	3255.7	3882.2	4414.9
45°	3702.2	3656.3	3538.5	3418.0	3343.4	3266.0	3288.6	3481.7	4156.8	4812.1
47.5°	3916.5	3865.1	3726.1	3591.9	3550.9	3404.3	3500.9	3730.2	4442.3	5214.7
50°	4032.2	3981.5	3865.8	3744.6	3712.4	3574.8	3730.9	4003.4	4741.5	5615.9
52.5°	4128.7	4074.0	3922.6	3855.5	3846.0	3760.4	4014.4	4315.7	5040.8	5970.6
55°	4231.4	4170.5	3977.4	3917.2	3961.0	3968.5	4350.6	4669.7	5357.1	6316.4
57.5°	4349.9	4272.5	4030.1	3969.2	4073.3	4212.3	4736.8	5036.7	5667.9	6636.8
60°	4461.5	4383.4	4131.5	4052.1	4194.5	4495.1	5179.8	5481.0	6019.9	6922.3
62.5°	4483.4	4419.1	4212.3	4211.6	4358.8	4825.1	5704.2	5929.5	6327.3	7204.4
65°	4104.1	4063.7	3941.1	4205.4	4594.3	5300.3	6288.3	6503.3	6718.3	7450.9
67.5°	3123.6	3129.1	3120.2	3630.3	4404.0	5982.9	7133.9	7117.5	7201.0	7727.5
70°	1428.3	1460.5	1670.0	2506.0	3528.3	6061.6	8532.0	8319.1	7806.9	8085.6
72.5°	771.7	796.3	881.9	1214.0	2121.2	5389.3	9576.9	9728.2	8612.8	8326.6
75°	566.2	579.9	639.5	771.7	890.8	4005.5	9202.4	9978.8	8713.5	7764.5
77.5°	423.8	430.0	478.6	611.4	456.0	2111.6	7353.0	8264.3	7459.1	6379.3
80°	307.4	314.3	350.6	458.7	319.8	772.3	5049.0	5800.8	5108.5	4066.4
82.5°	212.3	215.0	230.7	312.2	223.2	299.9	2864.8	3401.6	2851.8	1426.9
85°	128.0	131.5	138.3	182.1	126.7	142.4	1236.6	1279.0	852.5	341.0
87.5°	52.7	56.1	61.6	76.7	50.0	39.7	204.0	256.1	159.5	100.0
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°
2336.2	0°	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2	2336.2
2343.0	2.5°	2339.6	2334.8	2321.8	2304.0	2287.6	2267.0	2258.1	2250.6	2243.8	2230.8
2361.5	5°	2354.0	2341.0	2306.1	2260.9	2209.5	2153.4	2098.6	2060.9	2028.8	2004.8
2382.8	7.5°	2375.9	2351.3	2287.6	2195.1	2077.4	1956.9	1848.0	1770.6	1712.4	1691.2
2412.9	10°	2398.5	2369.1	2258.1	2095.2	1891.8	1706.3	1561.8	1482.4	1435.8	1420.8
2448.5	12.5°	2425.2	2382.1	2212.3	1956.2	1684.4	1481.0	1355.0	1308.5	1284.5	1276.3
2492.3	15°	2464.2	2393.0	2143.1	1782.3	1486.5	1316.7	1235.2	1203.0	1190.7	1190.0
2537.5	17.5°	2493.7	2395.1	2035.6	1596.0	1334.5	1217.4	1150.3	1138.0	1146.2	1158.5
2582.0	20°	2526.5	2376.6	1894.6	1426.2	1227.7	1130.4	1102.4	1110.6	1130.4	1148.2
2640.9	22.5°	2549.8	2343.0	1724.1	1294.1	1135.2	1080.5	1079.1	1096.2	1107.2	1116.1
2710.0	25°	2570.4	2286.2	1543.3	1183.2	1059.2	1050.3	1065.4	1059.9	1052.4	1059.9
2779.2	27.5°	2585.4	2196.5	1381.7	1085.9	1005.8	1029.8	1020.9	1008.6	1007.9	1012.0
2860.7	30°	2580.6	2076.7	1248.9	993.5	968.2	991.4	970.2	968.2	966.1	968.2
2983.2	32.5°	2580.6	1940.4	1146.9	929.8	944.2	935.3	933.2	928.5	920.2	919.6
3149.6	35°	2595.0	1804.2	1059.2	895.6	924.3	903.1	904.5	892.8	875.7	867.5
3370.1	37.5°	2624.5	1694.6	972.3	879.2	889.4	888.7	883.3	863.4	833.3	807.3
3645.3	40°	2695.7	1662.5	912.7	871.6	873.0	881.2	866.8	828.5	760.0	717.6
3924.7	42.5°	2807.3	1716.5	899.7	853.1	862.0	870.3	842.2	753.2	704.6	679.2
4217.8	45°	2949.0	1811.0	927.8	826.4	836.0	850.4	766.9	724.4	702.5	703.2
4508.1	47.5°	3128.4	1910.3	979.8	803.2	798.4	806.6	716.9	690.9	660.7	668.3
4786.7	50°	3335.9	2011.0	1029.1	771.7	756.6	729.9	684.7	660.1	621.7	603.9
5055.8	52.5°	3560.4	2108.2	1049.0	733.3	711.4	680.6	662.8	632.7	586.1	556.7
5309.8	55°	3773.4	2196.5	1027.0	687.4	666.2	642.2	639.5	621.0	571.0	530.0
5535.8	57.5°	3974.7	2270.5	972.3	640.9	620.3	606.0	624.4	615.5	552.6	499.8
5749.4	60°	4145.2	2321.1	892.8	593.6	579.3	571.7	599.8	597.1	526.5	467.7
5941.1	62.5°	4280.7	2341.0	805.2	548.4	545.0	531.3	565.6	565.6	493.7	436.2
6109.6	65°	4386.9	2321.8	716.2	503.9	510.8	490.2	523.8	519.7	458.7	408.1
6303.3	67.5°	4480.7	2258.8	617.6	460.1	475.9	449.8	480.0	470.4	420.4	380.0
6471.1	70°	4522.4	2112.3	505.3	416.3	435.5	410.1	436.2	418.4	377.3	349.9
6286.9	72.5°	4186.9	1755.6	397.8	370.4	386.9	366.3	388.9	368.4	330.7	318.4
5429.0	75°	3463.9	1317.4	306.1	320.4	332.8	317.0	332.1	317.0	282.8	291.7
4010.3	77.5°	2515.6	889.4	234.2	267.7	273.2	265.0	278.0	260.9	230.1	228.0
1998.6	80°	1250.9	521.1	183.5	211.6	209.5	204.0	219.1	210.9	184.9	195.8
539.5	82.5°	362.2	223.2	133.5	148.6	144.5	145.8	156.8	160.9	241.0	239.0
167.8	85°	113.7	87.6	80.1	82.8	78.7	80.8	92.4	183.5	169.8	99.3
52.0	87.5°	29.4	30.1	19.9	21.2	21.9	26.0	29.4	111.6	53.4	34.9
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>
2336.2
2224.6
1984.9
1654.2
1397.5
1278.3
1192.7
1163.3
1154.4
1120.9
1064.7
1018.8
975.7
928.5
875.7
816.2
723.0
679.2
706.6
687.4
608.7
556.0
530.0
497.1
465.6
434.1
405.3
377.3
344.4
308.1
266.3
217.7
193.8
244.4
107.5
37.0
0.0

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