

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: P948563

Luminaire Tested: **GALN-SB3C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19801 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

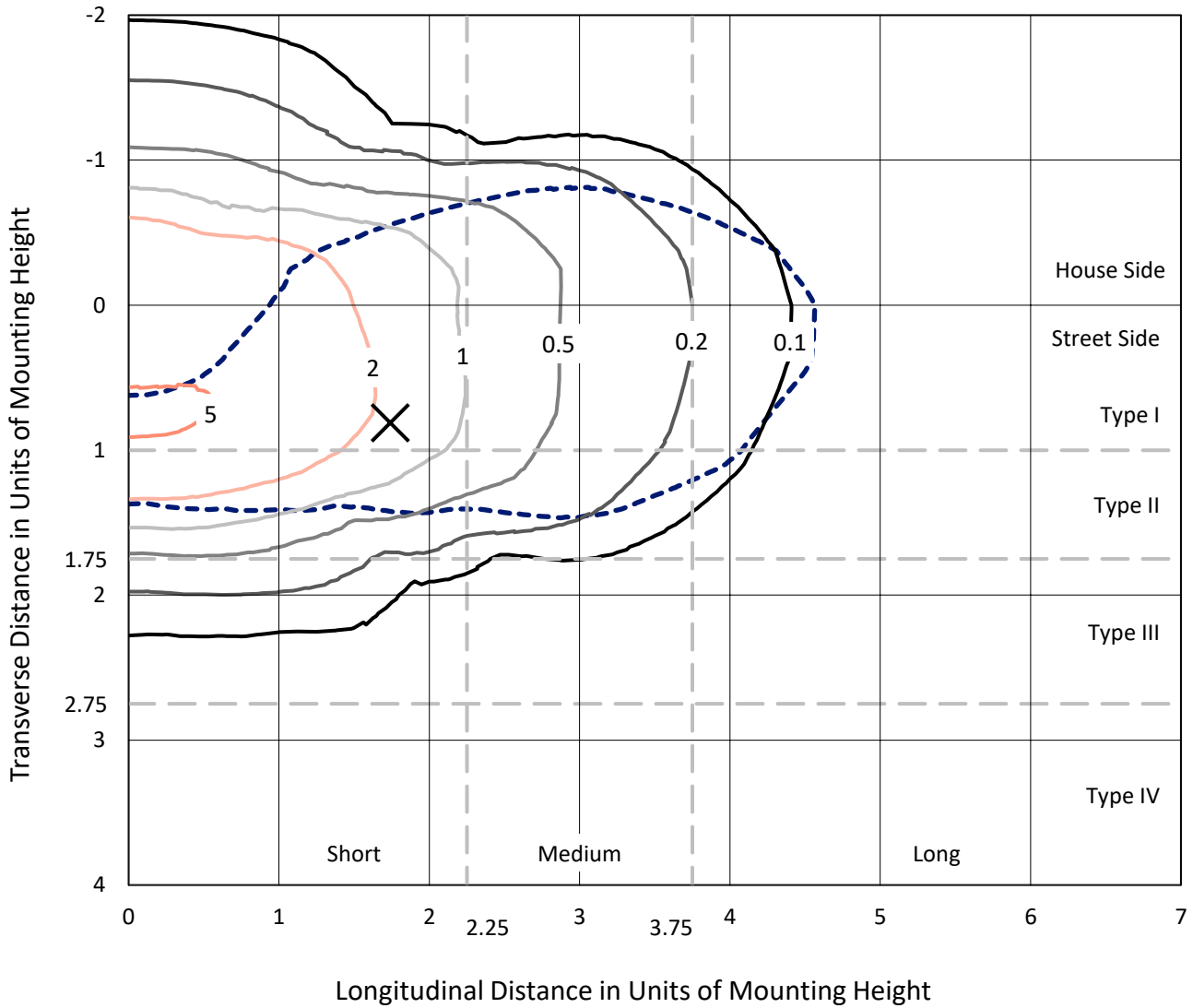
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

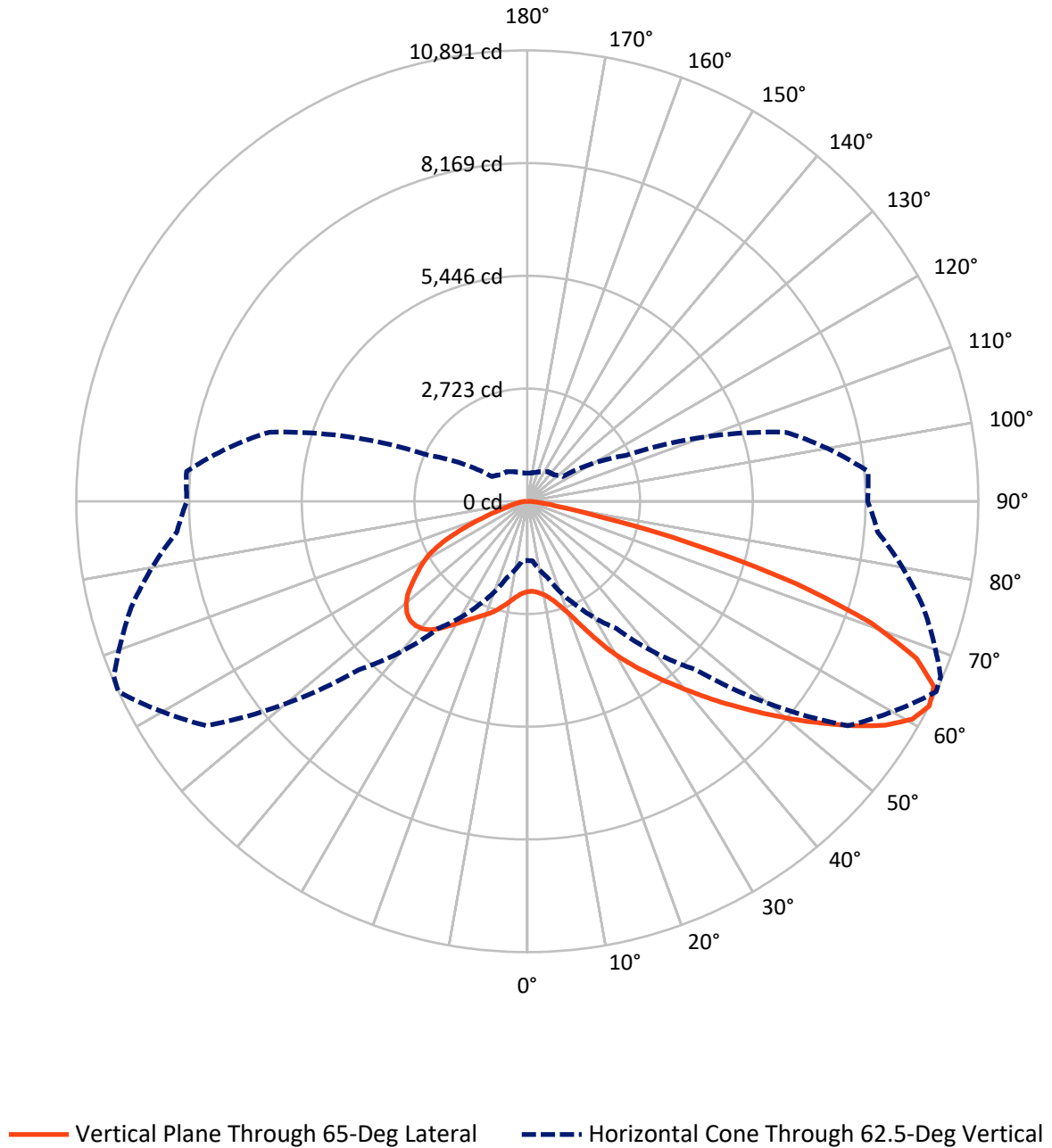
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6248.3	0.0	6248.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13552.7	0.0	13552.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	19801.0	0.0	19801.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.1
10°-20°	737.7	3.7
20°-30°	1495.8	7.6
30°-40°	2588.4	13.1
40°-50°	3917.1	19.8
50°-60°	4592.5	23.2
60°-70°	3850.3	19.4
70°-80°	2125.7	10.7
80°-90°	276.1	1.4
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°	19801.0	100.0
0°-180°	19801.0	100.0



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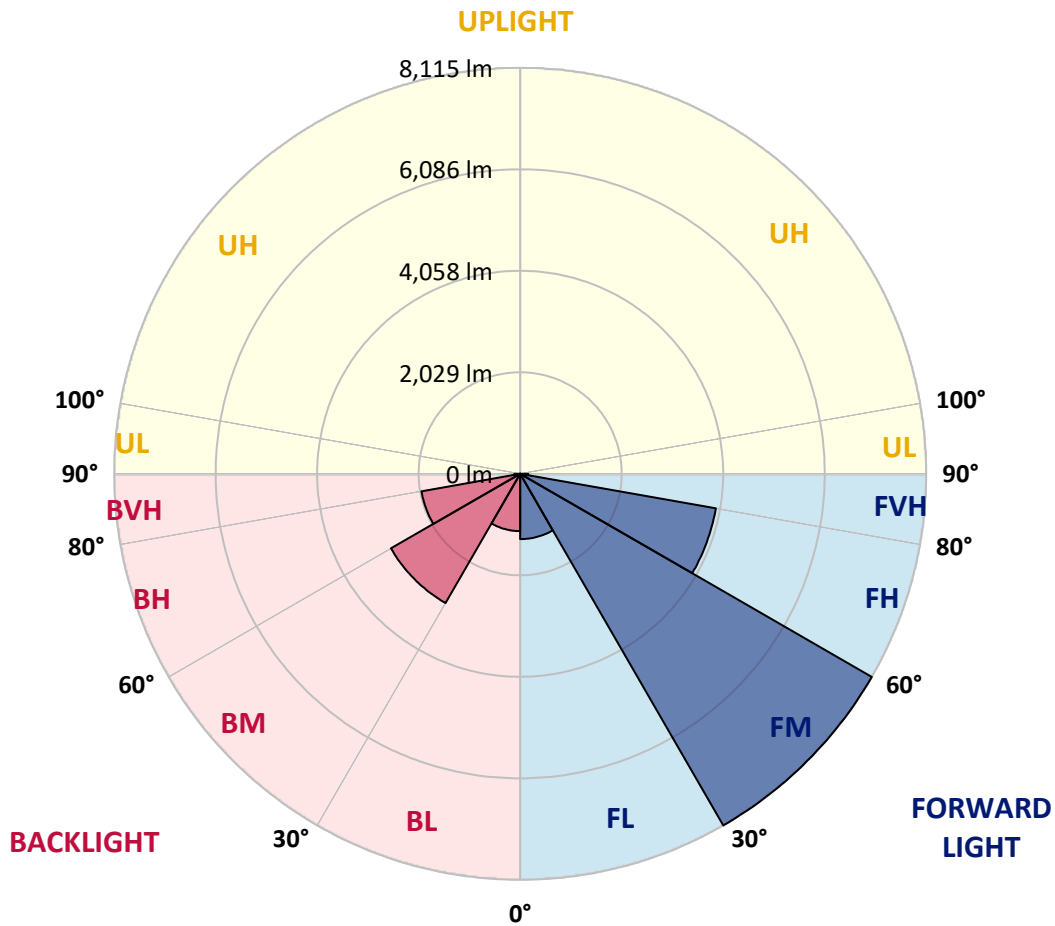
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.1	6.6			
FM (30°-60°)	8115.1	41.0			
FH (60°-80°)	3971.5	20.1			G2/5000
FVH (80°-90°)	160.9	0.8			G2/225
BL (0°-30°)	1145.9	5.8	B3/2500		
BM (30°-60°)	2982.9	15.1	B3/5000		
BH (60°-80°)	2004.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	115.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0
2.5°	2167.6	2161.4	2166.6	2166.6	2168.6	2167.6	2174.8	2176.8	2179.9	2186.1
5°	2146.0	2145.0	2154.2	2162.5	2170.7	2177.9	2187.1	2200.5	2202.5	2209.7
7.5°	2138.8	2132.7	2147.1	2157.3	2176.8	2194.3	2219.0	2241.6	2250.8	2253.9
10°	2194.3	2184.0	2197.4	2203.6	2220.0	2237.5	2266.2	2302.2	2312.5	2324.8
12.5°	2288.8	2277.5	2297.0	2306.3	2321.7	2337.1	2356.6	2391.6	2396.7	2419.3
15°	2418.3	2404.9	2417.2	2428.5	2454.2	2468.6	2488.1	2522.0	2522.0	2539.5
17.5°	2593.9	2576.5	2585.7	2589.8	2606.3	2627.8	2660.7	2690.5	2705.9	2699.7
20°	2855.9	2834.3	2834.3	2813.8	2807.6	2825.1	2868.2	2909.3	2925.7	2893.9
22.5°	3249.3	3218.5	3201.1	3131.2	3103.5	3105.5	3148.7	3199.0	3212.4	3155.9
25°	3749.6	3701.4	3677.7	3575.0	3512.3	3457.9	3491.8	3556.5	3575.0	3505.1
27.5°	4249.9	4253.0	4230.4	4107.1	4003.4	3903.7	3886.3	3954.1	3973.6	3894.5
30°	4951.6	4878.6	4835.5	4687.6	4539.6	4399.9	4328.0	4355.8	4360.9	4266.4
32.5°	5556.7	5538.2	5445.7	5316.3	5126.2	4907.4	4787.2	4743.0	4734.8	4600.2
35°	6246.0	6235.7	6138.1	5984.0	5778.6	5474.5	5257.7	5131.4	5121.1	4932.1
37.5°	6946.6	6946.6	6851.1	6682.6	6469.9	6089.8	5760.1	5559.7	5526.9	5280.3
40°	7505.5	7471.5	7489.0	7418.1	7174.7	6770.9	6317.9	6027.2	5983.0	5687.1
42.5°	7822.9	7811.6	7916.4	7995.5	7895.8	7573.3	6932.2	6533.6	6472.0	6135.0
45°	7893.8	7881.4	8068.4	8358.1	8497.8	8365.3	7600.0	7066.8	6991.8	6603.5
47.5°	7730.4	7705.8	7980.1	8437.2	8885.1	9118.3	8323.2	7645.2	7536.3	7059.6
50°	7239.4	7215.8	7630.8	8237.9	9015.6	9629.9	9108.0	8258.5	8092.0	7548.6
52.5°	6172.0	6183.3	6833.6	7667.8	8844.0	9948.4	9784.0	8904.6	8704.3	8048.9
55°	4807.8	4832.4	5631.7	6550.1	8157.8	9900.1	10245.3	9570.3	9371.0	8519.4
57.5°	3442.5	3551.4	4300.3	5209.4	6839.8	9134.7	10345.9	10203.1	10010.0	9033.0
60°	2231.3	2250.8	3021.3	3937.6	5208.4	7774.6	10141.5	10682.9	10531.9	9557.0
62.5°	1430.0	1443.4	1912.8	2754.2	3748.6	5751.9	9453.2	10891.4	10845.2	9903.2
65°	1050.9	1040.7	1285.2	1820.4	2525.1	3547.3	8116.7	10790.8	10882.2	10119.9
67.5°	877.3	862.9	983.1	1260.5	1860.4	2014.5	6005.6	10136.4	10471.3	10095.3
70°	799.2	786.9	859.8	935.9	1451.6	1348.8	3027.5	8812.2	9327.9	9814.8
72.5°	677.0	655.4	755.1	831.1	1129.0	1034.5	1251.3	6768.9	7397.6	8915.9
75°	525.0	510.6	595.8	731.4	848.5	807.5	791.0	4110.2	4796.5	6895.2
77.5°	416.1	396.5	474.6	570.2	763.3	609.2	576.3	1770.0	2450.1	4402.0
80°	313.3	295.9	360.6	451.0	586.6	459.2	372.9	722.2	923.5	2230.3
82.5°	222.9	207.5	251.7	330.8	394.5	411.9	229.1	404.8	455.1	859.8
85°	142.8	133.5	168.5	207.5	250.7	265.0	139.7	211.6	232.2	354.4
87.5°	78.1	63.7	90.4	96.6	116.1	105.8	66.8	77.0	83.2	128.4
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°
2182.0	0°	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0
2186.1	2.5°	2190.2	2193.3	2203.6	2206.6	2213.8	2223.1	2229.2	2235.4	2235.4	2241.6
2219.0	5°	2220.0	2227.2	2248.8	2260.1	2278.6	2297.0	2308.3	2321.7	2329.9	2334.0
2271.4	7.5°	2277.5	2288.8	2319.6	2339.2	2371.0	2396.7	2414.2	2432.6	2436.8	2448.1
2344.3	10°	2355.6	2369.0	2403.9	2440.9	2478.9	2510.7	2527.2	2540.5	2545.6	2547.7
2437.8	12.5°	2445.0	2464.5	2509.7	2554.9	2595.0	2622.7	2626.8	2623.7	2609.3	2597.0
2552.8	15°	2554.9	2572.4	2622.7	2672.0	2711.0	2716.2	2690.5	2674.1	2656.6	2653.5
2681.3	17.5°	2686.4	2695.6	2741.9	2790.1	2793.2	2775.8	2737.8	2722.3	2705.9	2694.6
2848.7	20°	2839.5	2836.4	2869.2	2889.8	2868.2	2814.8	2757.3	2731.6	2715.2	2701.8
3054.2	22.5°	3022.3	2998.7	2994.6	2989.4	2931.9	2819.9	2741.9	2709.0	2683.3	2664.8
3340.8	25°	3288.4	3198.0	3135.3	3100.4	2971.0	2792.2	2692.6	2619.6	2571.3	2539.5
3691.1	27.5°	3621.2	3469.2	3311.0	3225.7	2971.0	2735.7	2573.4	2455.2	2376.1	2343.3
4030.1	30°	3938.7	3779.4	3546.2	3376.7	2963.8	2643.2	2381.3	2216.9	2124.5	2091.6
4319.8	32.5°	4209.9	4036.3	3795.9	3542.1	2946.3	2493.3	2142.9	1961.1	1871.7	1832.7
4606.4	35°	4461.6	4276.6	4046.5	3724.0	2900.1	2273.4	1881.0	1742.3	1642.7	1580.0
4898.2	37.5°	4719.4	4499.6	4283.8	3888.3	2816.9	2016.6	1679.6	1561.5	1444.4	1360.1
5208.4	40°	4999.9	4736.9	4537.6	3985.9	2680.2	1772.1	1523.5	1415.6	1291.3	1201.9
5565.9	42.5°	5327.6	5021.4	4820.1	4036.3	2493.3	1598.5	1421.8	1316.0	1198.9	1125.9
5949.1	45°	5669.7	5334.8	5077.9	4035.2	2284.7	1517.3	1388.9	1284.1	1154.7	1078.7
6342.5	47.5°	6028.2	5662.5	5300.9	3969.5	2103.9	1528.6	1370.4	1215.3	1072.5	998.5
6740.1	50°	6387.7	6021.0	5516.6	3846.2	2026.9	1504.0	1301.6	1118.7	950.3	883.5
7113.0	52.5°	6744.2	6402.1	5702.5	3670.5	1948.8	1412.5	1213.2	993.4	899.9	853.7
7498.3	55°	7102.7	6779.2	5904.9	3414.7	1753.6	1305.7	1065.3	946.1	859.8	817.7
7875.3	57.5°	7462.3	7214.7	6097.0	3158.9	1508.1	1174.2	984.2	888.6	819.8	783.8
8190.7	60°	7836.2	7713.0	6295.3	2923.7	1265.6	1005.7	924.6	842.4	772.5	732.5
8493.7	62.5°	8221.5	8261.5	6450.4	2620.6	1042.7	903.0	871.2	786.9	719.1	681.1
8744.4	65°	8609.8	8790.6	6552.1	2200.5	845.5	805.4	813.6	726.3	657.5	624.6
8928.3	67.5°	8902.6	9171.7	6523.4	1665.3	693.4	712.9	741.7	662.6	597.9	572.2
8898.5	70°	8935.5	9126.5	6239.8	1140.3	580.4	622.5	661.6	599.9	533.2	514.7
8479.3	72.5°	8497.8	8510.1	5449.8	744.8	491.0	546.5	577.3	536.3	471.5	453.0
7418.1	75°	7350.3	7038.0	4001.3	491.0	410.9	469.5	498.2	469.5	406.8	410.9
5550.5	77.5°	5569.0	4984.5	2429.6	349.3	343.1	394.5	433.5	413.0	359.6	403.7
2791.2	80°	2869.2	2696.7	1083.8	260.9	271.2	315.4	356.5	329.8	284.6	271.2
623.6	82.5°	657.5	764.3	427.4	187.0	196.2	227.0	272.2	247.6	204.4	172.6
259.9	85°	230.1	251.7	189.0	117.1	115.1	141.8	184.9	165.4	138.7	110.9
109.9	87.5°	72.9	95.5	70.9	47.3	49.3	63.7	85.3	78.1	64.7	42.1
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>
2182.0
2241.6
2336.1
2443.9
2542.6
2597.0
2653.5
2695.6
2702.8
2671.0
2551.8
2359.7
2111.1
1852.2
1600.5
1382.7
1219.4
1140.3
1091.0
1008.8
887.6
853.7
813.6
777.7
729.4
680.1
623.6
573.2
515.7
452.0
396.5
355.4
247.6
170.5
117.1
44.2
0.0

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