

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: P956323

Luminaire Tested: **GALN-SB9A-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956323  
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-SB9A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

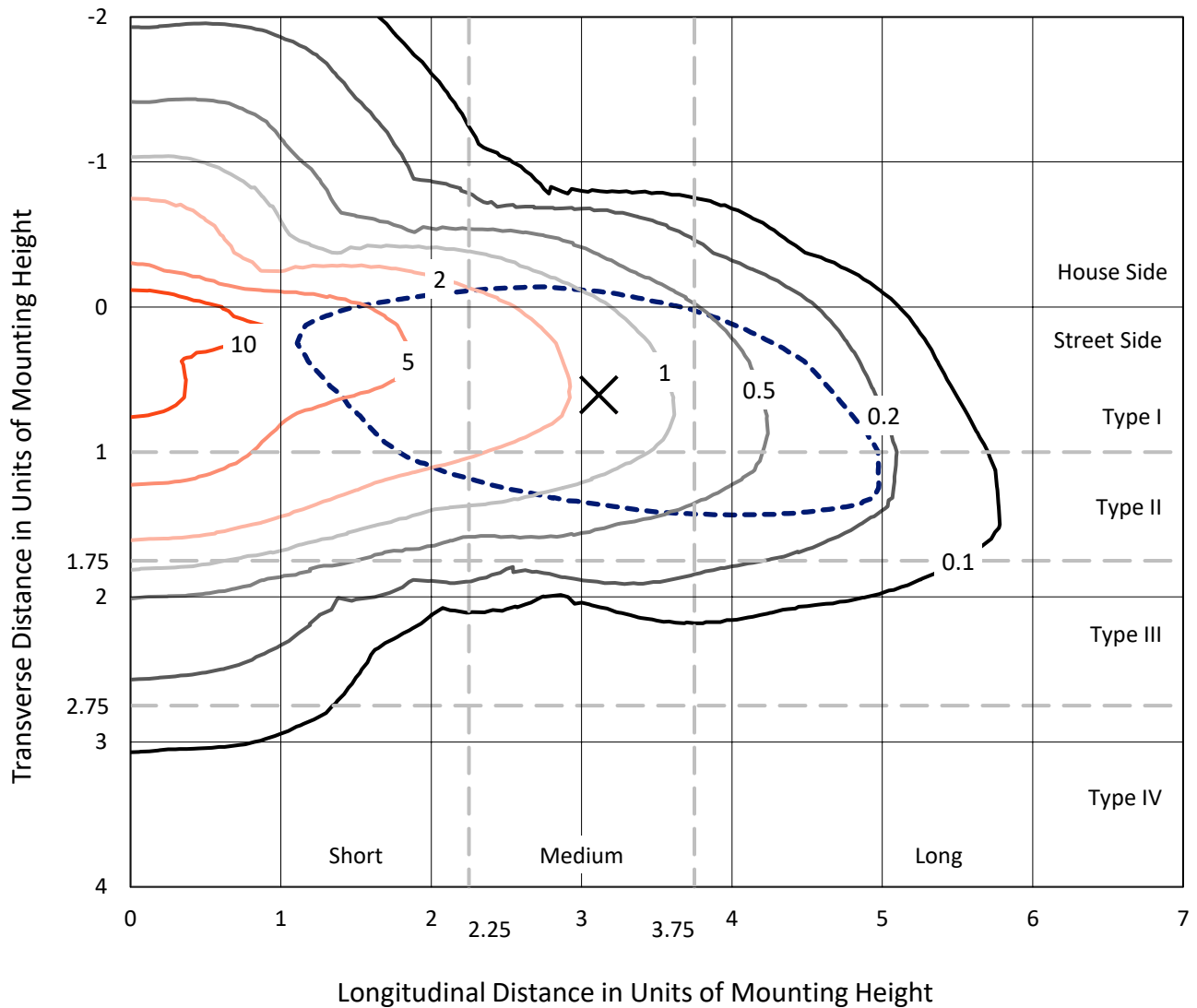
Lumens per Lamp: N/A  
Luminaire Lumens: 40611 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

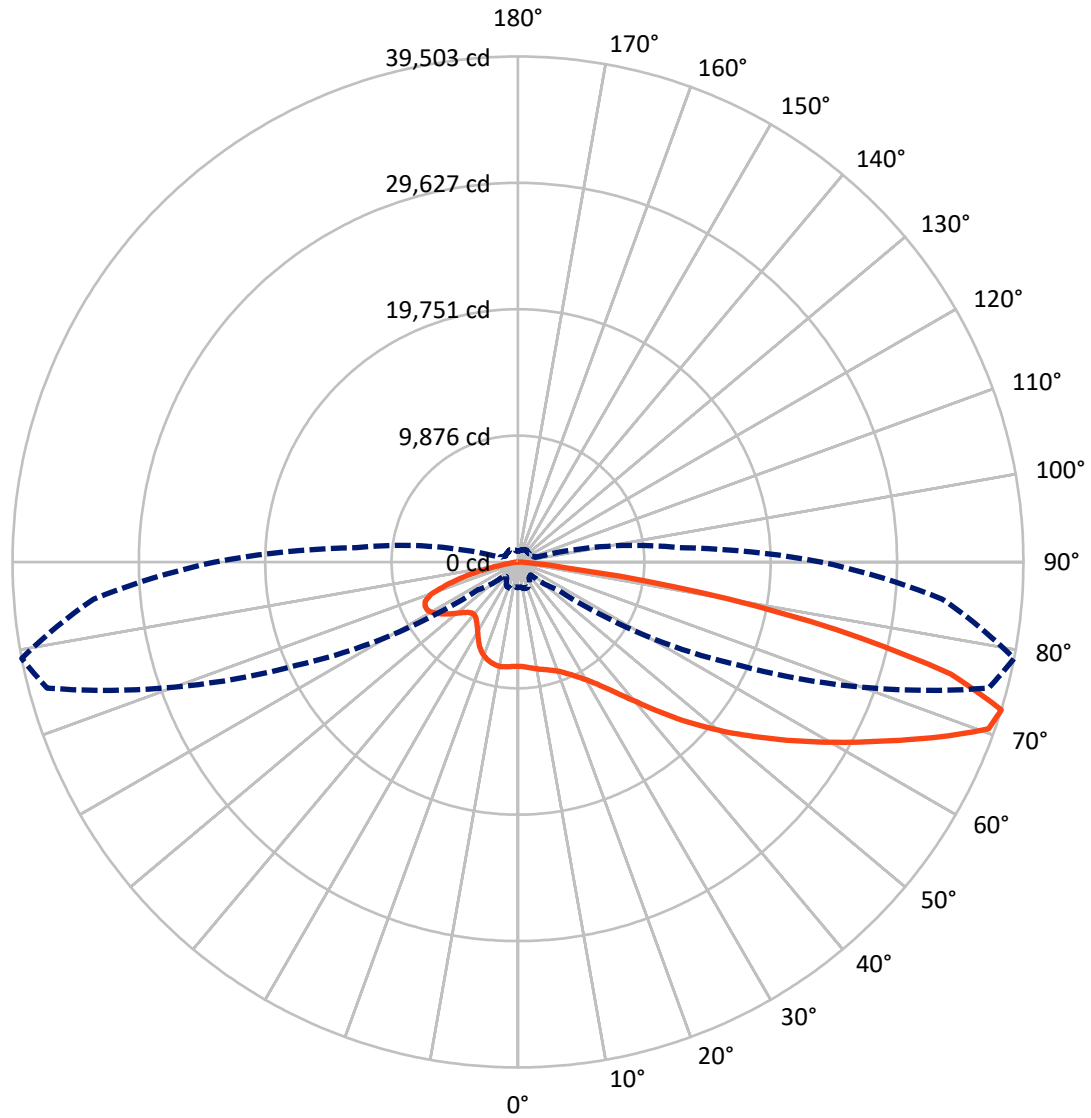
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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
<b>House Side</b>	Lumens	8936.6	0.0	8936.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	31674.3	0.0	31674.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	40611.0	0.0	40611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	740.0	1.8
10°-20°	1934.7	4.8
20°-30°	3121.8	7.7
30°-40°	4685.4	11.5
40°-50°	6646.5	16.4
50°-60°	8393.7	20.7
60°-70°	8524.9	21.0
70°-80°	5810.1	14.3
80°-90°	753.8	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°	40611.0	100.0
0°-180°	40611.0	100.0

**Coefficient of Utilization**



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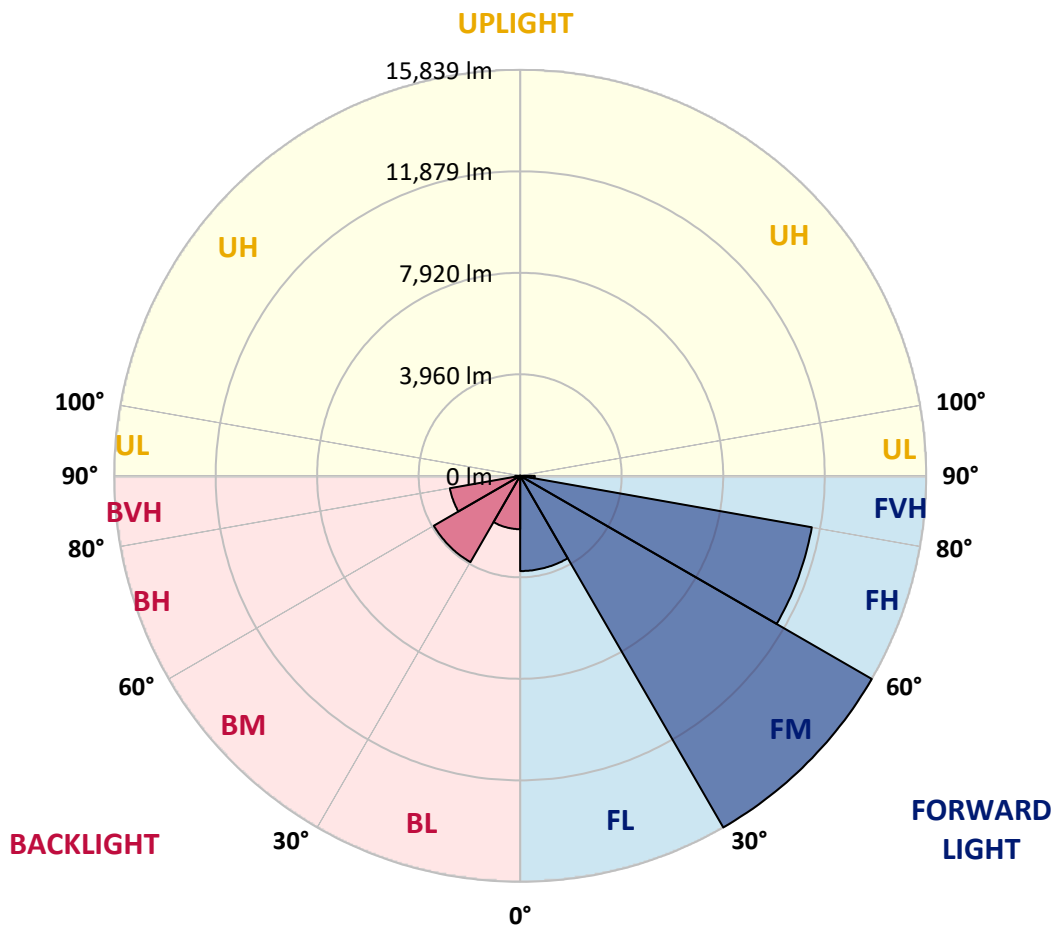
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3714.9	9.1			
FM (30°-60°)	15839.1	39.0			
FH (60°-80°)	11552.5	28.4			G4/12000
FVH (80°-90°)	567.9	1.4			G4/750
BL (0°-30°)	2081.6	5.1	B3/2500		
BM (30°-60°)	3886.5	9.6	B3/5000		
BH (60°-80°)	2782.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	186.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3
2.5°	8156.6	8117.9	8141.5	8132.9	8143.7	8156.6	8160.9	8167.3	8188.8	8186.6
5°	8139.4	8100.7	8132.9	8122.2	8150.1	8180.2	8206.0	8229.6	8264.0	8279.0
7.5°	8102.9	8077.1	8109.3	8141.5	8193.1	8238.2	8274.7	8328.4	8377.8	8386.4
10°	7890.2	7870.9	7946.0	8029.8	8171.6	8294.1	8373.5	8435.8	8489.5	8498.1
12.5°	7668.9	7645.3	7729.1	7842.9	8072.8	8294.1	8461.6	8543.2	8590.5	8618.4
15°	7632.4	7613.1	7660.3	7759.2	7950.3	8236.1	8521.8	8672.1	8712.9	8745.2
17.5°	7808.6	7772.0	7791.4	7825.8	7937.5	8182.3	8569.0	8818.2	8880.5	8914.9
20°	8216.7	8165.2	8135.1	8066.3	8047.0	8190.9	8564.7	8994.4	9076.0	9118.9
22.5°	8760.2	8725.8	8661.4	8487.4	8298.3	8296.2	8646.3	9219.9	9372.4	9413.2
25°	9417.5	9366.0	9284.4	9048.1	8685.0	8504.6	8783.8	9507.8	9763.4	9774.1
27.5°	10173.7	10096.4	9984.7	9673.2	9183.4	8831.1	8994.4	9838.6	10212.4	10208.1
30°	10970.7	10893.3	10775.2	10397.1	9780.6	9271.5	9286.5	10195.2	10745.1	10721.5
32.5°	11552.8	11494.8	11471.2	11179.0	10468.0	9791.3	9621.6	10590.4	11402.4	11381.0
35°	11999.6	11924.4	11952.4	11804.1	11217.7	10373.5	10031.9	11060.9	12201.6	12199.4
37.5°	12442.2	12375.6	12399.2	12300.4	11911.6	11112.4	10532.4	11636.6	13191.9	13239.1
40°	12846.0	12775.1	12869.6	12777.3	12450.7	11898.7	11101.7	12287.5	14339.0	14429.2
42.5°	13088.7	13032.9	13189.7	13191.9	12919.0	12562.4	11726.8	13005.0	15666.5	15868.5
45°	13172.5	13153.2	13389.5	13438.9	13333.6	12947.0	12289.6	13786.9	17097.2	17458.1
47.5°	13082.3	13045.8	13372.3	13554.9	13638.7	13127.4	12755.8	14633.3	18558.0	19086.4
50°	12626.9	12556.0	13041.5	13426.0	13724.6	13245.6	13226.2	15610.7	20218.5	20796.3
52.5°	11808.4	11754.7	12306.8	12974.9	13535.6	13303.6	13754.7	16678.3	21795.2	22542.8
55°	10762.3	10691.4	11299.3	12171.5	13065.1	13284.2	14283.1	17872.7	23655.6	24413.9
57.5°	9103.9	8962.1	9731.2	10762.3	12298.2	13260.6	14833.1	19060.6	25545.9	26454.6
60°	6685.1	6474.6	7417.6	8639.9	10798.8	13030.7	15514.0	20392.5	27814.4	28632.8
62.5°	3892.5	3770.0	4386.5	5527.2	8139.4	11677.4	15896.4	21941.3	30044.2	30903.4
65°	3022.5	2988.1	3041.8	3129.9	4530.5	8743.0	14717.1	23451.5	32879.8	33481.2
67.5°	2764.7	2738.9	2762.5	2597.1	2298.5	4869.9	11643.0	23833.8	35917.3	36282.4
70°	2457.5	2427.4	2504.8	2363.0	1808.8	2214.8	7522.9	22446.1	38333.9	39019.2
72.5°	2002.1	1967.7	2148.2	2083.7	1523.0	1422.1	3778.6	19148.7	38080.5	39502.5
75°	1538.1	1518.8	1733.6	1787.3	1241.6	1119.2	1813.0	14233.7	33511.3	34944.1
77.5°	1194.4	1179.3	1288.9	1484.4	1001.0	867.9	1114.9	9028.7	25253.8	25505.1
80°	895.8	852.8	953.8	1149.3	779.8	633.7	756.2	5265.1	15963.0	14470.0
82.5°	560.7	539.2	623.0	766.9	549.9	436.1	491.9	2908.6	6397.2	3767.9
85°	320.1	311.5	339.4	438.2	298.6	251.3	281.4	1284.6	1168.6	803.4
87.5°	128.9	124.6	154.7	195.5	109.6	92.4	98.8	309.3	257.8	238.4
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°
8152.3	0°	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3	8152.3
8184.5	2.5°	8175.9	8175.9	8145.8	8098.6	8044.9	8010.5	7954.6	7939.6	7881.6	7864.4
8257.5	5°	8274.7	8257.5	8165.2	8032.0	7849.4	7681.8	7497.1	7381.1	7217.8	7159.8
8401.5	7.5°	8399.3	8352.1	8193.1	7900.9	7518.6	7142.6	6751.7	6455.2	6171.7	6070.7
8519.6	10°	8513.2	8446.6	8175.9	7664.6	7003.0	6352.1	5729.1	5293.1	4962.3	4826.9
8650.6	12.5°	8627.0	8504.6	8062.0	7271.5	6270.5	5387.6	4723.8	4384.4	4180.3	4017.1
8758.1	15°	8734.4	8562.6	7885.9	6745.2	5467.1	4571.3	4081.5	3810.8	3647.6	3540.2
8914.9	17.5°	8859.0	8612.0	7621.7	6077.1	4702.3	4006.3	3606.8	3443.5	3411.3	3398.4
9129.7	20°	9033.0	8657.1	7273.7	5329.6	4139.5	3555.2	3349.0	3333.9	3331.8	3325.4
9387.5	22.5°	9219.9	8710.8	6814.0	4650.8	3660.5	3273.8	3237.3	3207.2	3187.9	3185.7
9698.9	25°	9441.2	8728.0	6238.3	4094.4	3252.3	3140.6	3097.6	3052.5	3039.6	3039.6
10053.4	27.5°	9656.0	8670.0	5568.0	3611.1	3022.5	3018.2	2962.3	2947.3	2945.1	2951.6
10457.2	30°	9870.8	8560.4	4902.1	3164.2	2889.3	2889.3	2869.9	2880.7	2889.3	2910.8
11011.5	32.5°	10160.8	8444.4	4345.7	2833.4	2773.3	2751.8	2771.1	2792.6	2801.2	2829.1
11739.7	35°	10586.1	8362.8	3903.2	2653.0	2653.0	2625.1	2635.8	2631.5	2612.2	2599.3
12620.4	37.5°	11149.0	8358.5	3538.0	2569.2	2552.0	2547.7	2549.9	2521.9	2446.8	2356.5
13685.9	40°	11825.6	8474.5	3256.6	2511.2	2498.3	2524.1	2511.2	2436.0	2229.8	2073.0
14996.3	42.5°	12734.3	8805.3	3076.2	2440.3	2479.0	2511.2	2459.6	2199.7	2060.1	1954.8
16489.3	45°	13804.1	9342.4	2983.8	2365.1	2442.5	2481.1	2231.9	2118.1	2006.4	1879.6
18117.6	47.5°	15015.6	10019.0	2962.3	2294.2	2360.8	2384.5	2135.3	2083.7	1957.0	1819.5
19754.5	50°	16334.6	10820.3	3020.3	2210.5	2242.7	2161.1	2103.0	2055.8	1924.8	1789.4
21432.2	52.5°	17698.7	11703.2	3136.3	2096.6	2124.5	2034.3	2090.2	2049.3	1905.4	1722.8
23165.8	55°	19039.2	12592.5	3248.0	1963.4	2004.2	1920.5	2053.6	2023.6	1817.3	1611.1
25015.3	57.5°	20401.1	13477.6	3357.6	1845.3	1888.2	1810.9	1995.6	1954.8	1718.5	1508.0
27034.6	60°	21816.7	14336.8	3409.1	1731.4	1761.5	1709.9	1907.6	1836.7	1606.8	1402.7
29019.5	62.5°	23142.1	15052.2	3325.4	1617.6	1636.9	1615.4	1791.6	1697.0	1495.1	1284.6
31088.2	65°	24471.9	15477.5	3067.6	1505.9	1510.2	1499.4	1628.3	1546.7	1364.1	1181.5
32899.1	67.5°	25677.0	15715.9	2657.3	1385.6	1374.8	1370.5	1475.8	1383.4	1237.3	1078.4
34276.1	70°	25932.6	15110.2	2030.0	1243.8	1243.8	1233.0	1308.2	1213.7	1097.7	968.8
33290.1	72.5°	23685.6	12710.7	1441.4	1082.7	1099.9	1078.4	1140.7	1061.2	955.9	870.0
28690.8	75°	19099.3	9320.9	1048.3	917.3	947.3	910.8	968.8	913.0	822.7	820.6
19771.7	77.5°	13123.1	5763.5	760.4	756.2	777.6	730.4	797.0	766.9	685.3	648.7
8605.5	80°	5600.3	2298.5	554.2	584.3	584.3	541.3	618.7	627.3	556.4	539.2
1660.5	82.5°	1114.9	653.0	388.8	401.7	378.1	365.2	438.2	485.5	670.2	745.4
500.5	85°	335.1	240.6	234.1	219.1	193.3	195.5	257.8	487.6	601.5	343.7
165.4	87.5°	92.4	60.1	62.3	49.4	40.8	53.7	88.1	369.5	201.9	85.9
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>
8152.3
7892.3
7202.8
6083.6
4857.0
4070.8
3559.5
3407.0
3346.8
3209.4
3052.5
2968.8
2925.8
2852.8
2629.3
2358.7
2068.7
1950.5
1871.0
1808.8
1774.4
1709.9
1600.4
1503.7
1396.3
1282.5
1168.6
1065.5
964.5
844.2
739.0
607.9
539.2
747.6
296.4
73.0
0.0

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