

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: P956764

Luminaire Tested: **GALN-SB9B-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956764  
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-SB9B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

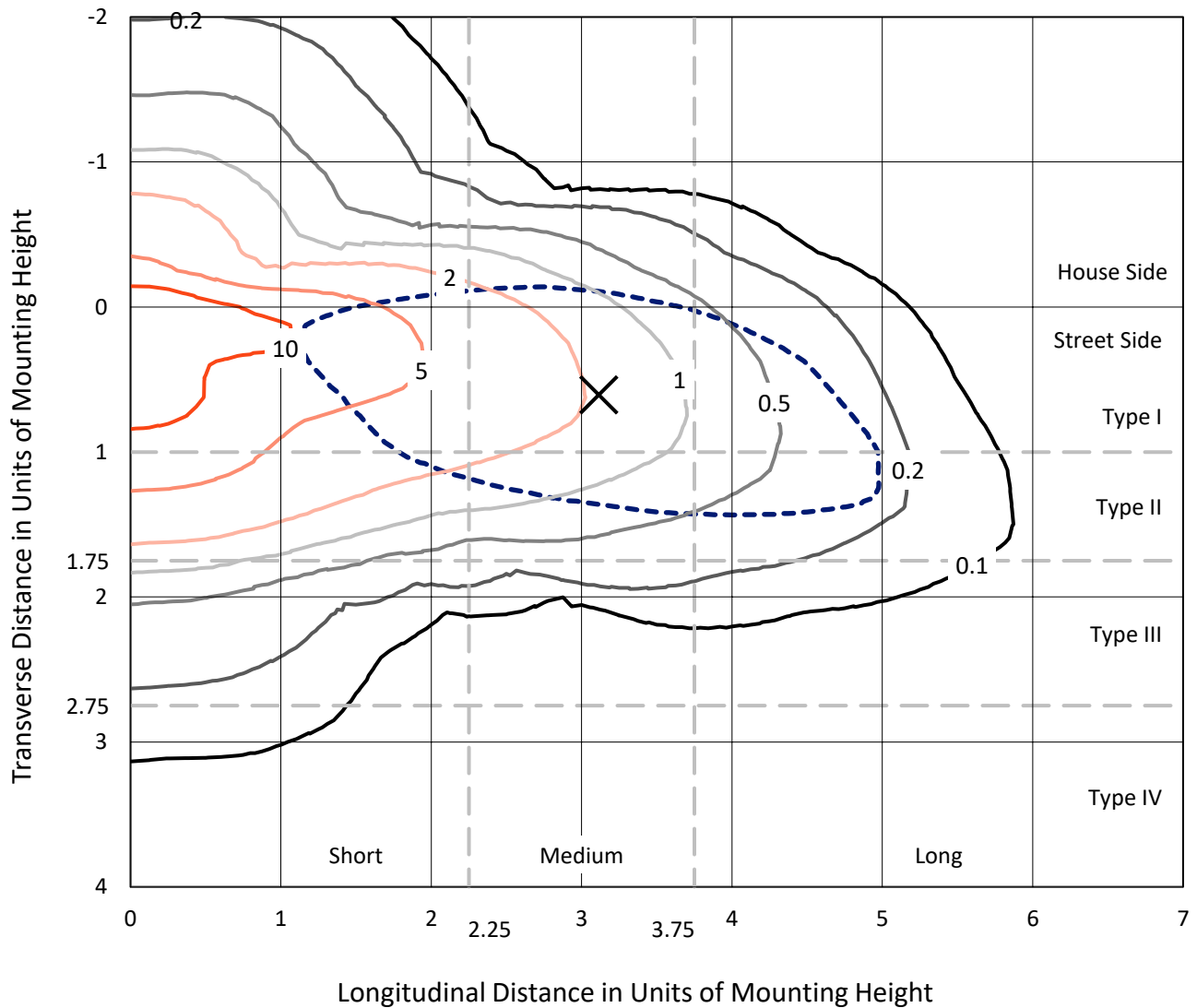
Lumens per Lamp: N/A  
Luminaire Lumens: 44330 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

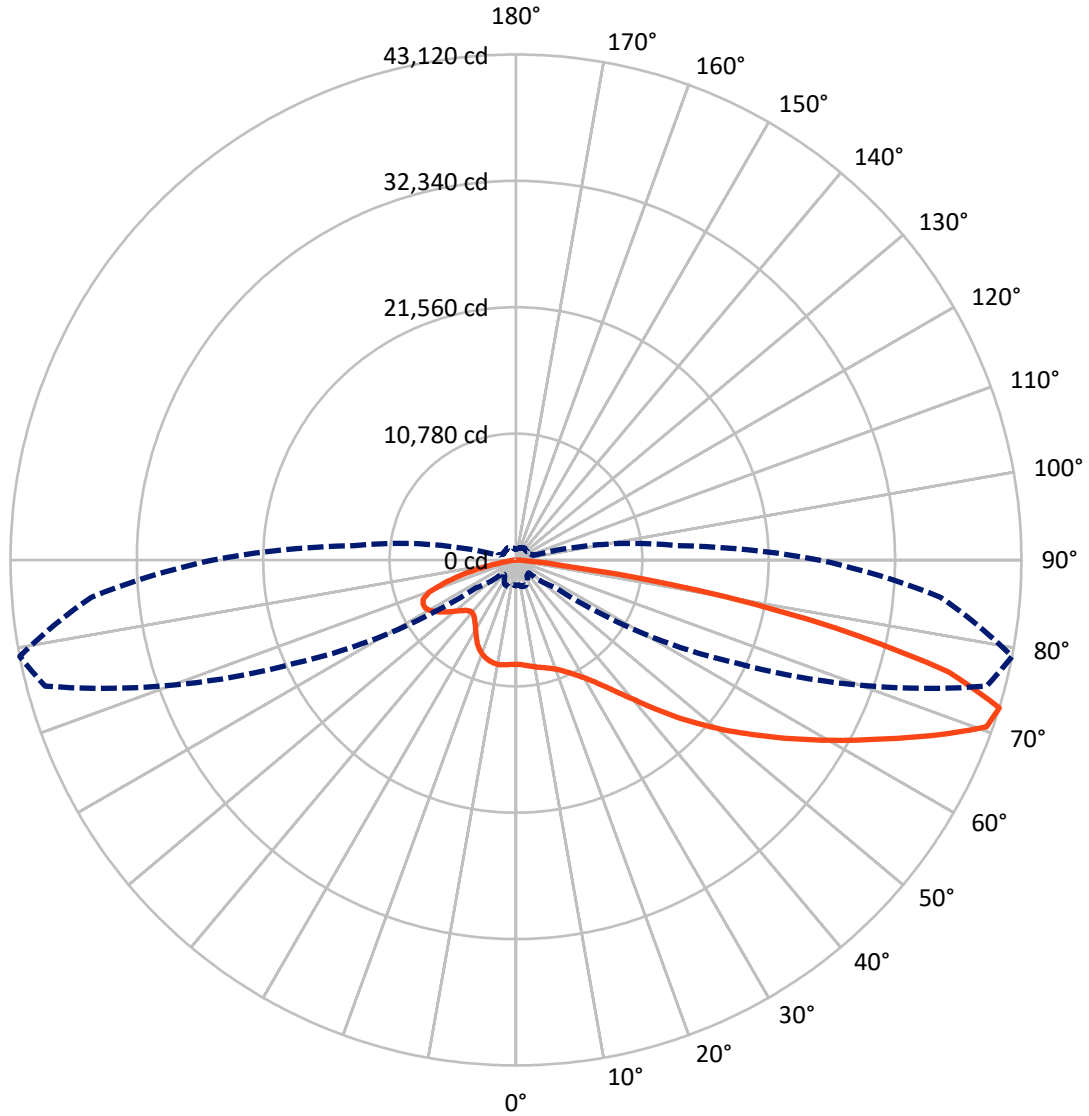
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	9755.0	0.0	9755.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	34575.0	0.0	34575.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	44330.0	0.0	44330.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	807.8	1.8
10°-20°	2111.9	4.8
20°-30°	3407.7	7.7
30°-40°	5114.5	11.5
40°-50°	7255.2	16.4
50°-60°	9162.3	20.7
60°-70°	9305.6	21.0
70°-80°	6342.2	14.3
80°-90°	822.8	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°	44330.0	100.0
0°-180°	44330.0	100.0



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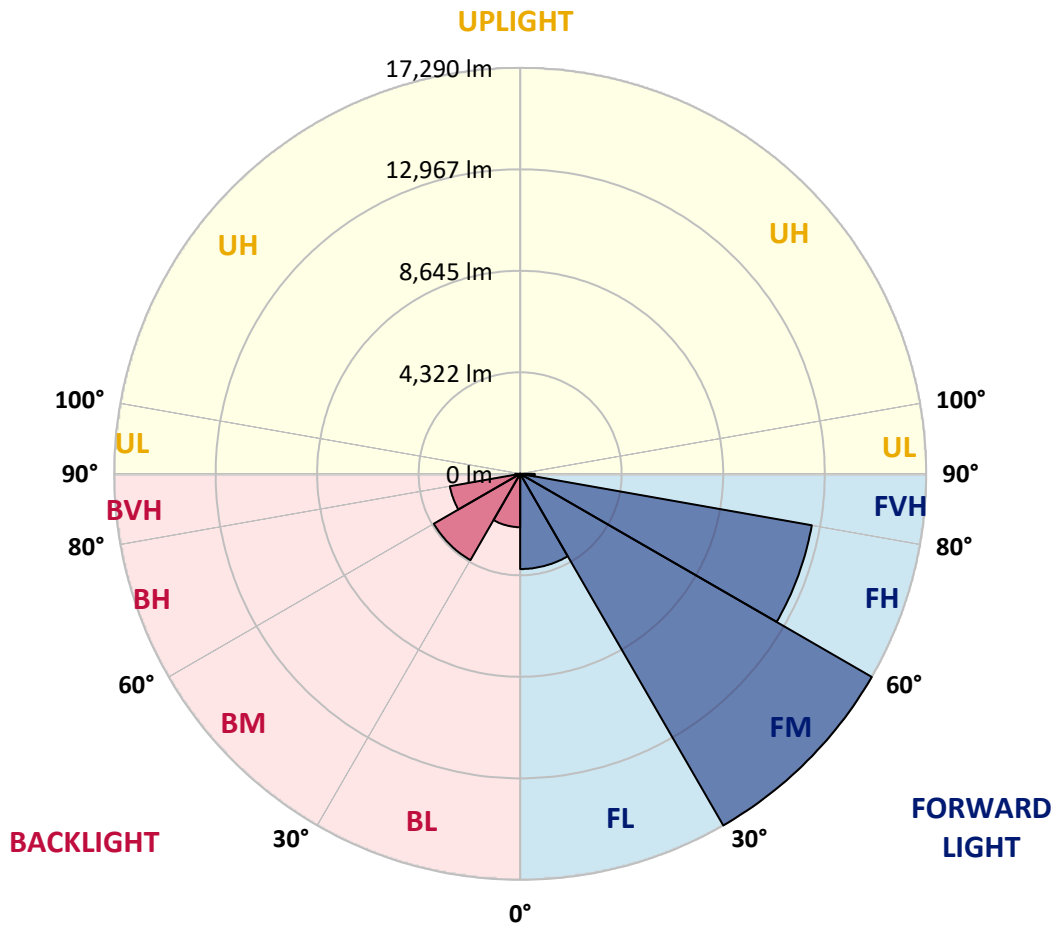
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4055.1	9.1			
FM (30°-60°)	17289.6	39.0			
FH (60°-80°)	12610.4	28.4			G5
FVH (80°-90°)	619.9	1.4			G4/750
BL (0°-30°)	2272.2	5.1	B3/2500		
BM (30°-60°)	4242.4	9.6	B3/5000		
BH (60°-80°)	3037.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	203.0	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-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8
2.5°	8903.5	8861.3	8887.1	8877.7	8889.4	8903.5	8908.2	8915.2	8938.7	8936.3
5°	8884.8	8842.5	8877.7	8866.0	8896.5	8929.3	8957.4	8983.2	9020.8	9037.2
7.5°	8844.9	8816.8	8851.9	8887.1	8943.4	8992.6	9032.5	9091.1	9145.0	9154.4
10°	8612.8	8591.6	8673.7	8765.2	8919.9	9053.6	9140.3	9208.4	9267.0	9276.4
12.5°	8371.2	8345.4	8436.9	8561.2	8812.1	9053.6	9236.5	9325.6	9377.2	9407.7
15°	8331.4	8310.3	8361.8	8469.7	8678.4	8990.3	9302.1	9466.3	9510.8	9546.0
17.5°	8523.6	8483.8	8504.9	8542.4	8664.3	8931.7	9353.7	9625.7	9693.7	9731.3
20°	8969.2	8912.9	8880.1	8805.0	8783.9	8941.0	9349.0	9818.0	9907.1	9954.0
22.5°	9562.4	9524.9	9454.6	9264.6	9058.3	9055.9	9438.1	10064.2	10230.7	10275.3
25°	10280.0	10223.7	10134.6	9876.6	9480.4	9283.4	9588.2	10378.4	10657.5	10669.2
27.5°	11105.4	11020.9	10899.0	10559.0	10024.4	9639.8	9818.0	10739.6	11147.6	11142.9
30°	11975.3	11890.9	11761.9	11349.2	10676.2	10120.5	10136.9	11128.8	11729.1	11703.3
32.5°	12610.8	12547.5	12521.7	12202.8	11426.6	10688.0	10502.7	11560.3	12446.6	12423.2
35°	13098.5	13016.4	13046.9	12885.1	12245.0	11323.4	10950.6	12073.8	13318.9	13316.6
37.5°	13581.6	13508.9	13534.7	13426.8	13002.4	12130.1	11497.0	12702.2	14399.9	14451.5
40°	14022.4	13945.0	14048.2	13947.4	13590.9	12988.3	12118.3	13412.7	15652.1	15750.6
42.5°	14287.4	14226.4	14397.6	14399.9	14102.1	13712.9	12800.7	14195.9	17101.2	17321.6
45°	14378.8	14357.7	14615.6	14669.6	14554.7	14132.6	13415.1	15049.5	18662.9	19056.9
47.5°	14280.3	14240.5	14596.9	14796.2	14887.7	14329.6	13923.9	15973.3	20257.4	20834.3
50°	13783.2	13705.8	14235.8	14655.5	14981.4	14458.5	14437.4	17040.3	22070.0	22700.8
52.5°	12889.8	12831.2	13433.8	14163.1	14775.1	14521.9	15014.3	18205.7	23791.2	24607.2
55°	11747.9	11670.5	12334.1	13286.1	14261.6	14500.7	15591.1	19509.4	25821.8	26649.6
57.5°	9937.6	9782.8	10622.3	11747.9	13424.4	14475.0	16191.4	20806.1	27885.3	28877.2
60°	7297.3	7067.5	8096.9	9431.1	11787.7	14224.1	16934.7	22260.0	30361.5	31254.9
62.5°	4248.9	4115.3	4788.2	6033.4	8884.8	12746.8	17352.1	23950.6	32795.5	33733.5
65°	3299.2	3261.7	3320.4	3416.5	4945.4	9543.7	16064.8	25599.1	35890.8	36547.3
67.5°	3017.9	2989.7	3015.5	2835.0	2509.0	5315.8	12709.3	26016.5	39206.4	39605.1
70°	2682.5	2649.7	2734.1	2579.4	1974.4	2417.6	8211.8	24501.7	41844.4	42592.4
72.5°	2185.4	2147.9	2344.9	2274.5	1662.5	1552.3	4124.6	20902.3	41567.7	43120.0
75°	1678.9	1657.8	1892.3	1950.9	1355.3	1221.7	1979.1	15537.2	36580.2	38144.2
77.5°	1303.8	1287.3	1406.9	1620.3	1092.7	947.3	1217.0	9855.5	27566.4	27840.8
80°	977.8	930.9	1041.1	1254.5	851.2	691.7	825.4	5747.3	17424.8	15795.1
82.5°	612.0	588.6	680.0	837.1	600.3	476.0	537.0	3175.0	6983.1	4112.9
85°	349.4	340.0	370.5	478.4	325.9	274.4	307.2	1402.2	1275.6	877.0
87.5°	140.7	136.0	168.8	213.4	119.6	100.8	107.9	337.7	281.4	260.3
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°
8898.8	0°	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8	8898.8
8934.0	2.5°	8924.6	8924.6	8891.8	8840.2	8781.6	8744.1	8683.1	8666.7	8603.4	8584.6
9013.7	5°	9032.5	9013.7	8912.9	8767.5	8568.2	8385.3	8183.6	8057.0	7878.8	7815.5
9170.8	7.5°	9168.5	9116.9	8943.4	8624.5	8207.1	7796.7	7370.0	7046.4	6736.8	6626.6
9299.8	10°	9292.8	9220.1	8924.6	8366.5	7644.3	6933.8	6253.8	5777.8	5416.7	5268.9
9442.8	12.5°	9417.0	9283.4	8800.3	7937.4	6844.7	5881.0	5156.4	4785.9	4563.1	4384.9
9560.1	15°	9534.3	9346.7	8608.1	7362.9	5967.7	4989.9	4455.3	4159.8	3981.6	3864.4
9731.3	17.5°	9670.3	9400.6	8319.6	6633.7	5132.9	4373.2	3937.1	3758.8	3723.7	3709.6
9965.7	20°	9860.2	9449.9	7939.8	5817.7	4518.6	3880.8	3655.7	3639.3	3636.9	3629.9
10247.1	22.5°	10064.2	9508.5	7438.0	5076.7	3995.7	3573.6	3533.7	3500.9	3479.8	3477.5
10587.1	25°	10305.8	9527.3	6809.5	4469.3	3550.2	3428.2	3381.3	3332.1	3318.0	3318.0
10974.0	27.5°	10540.2	9463.9	6077.9	3941.7	3299.2	3294.6	3233.6	3217.2	3214.8	3221.9
11414.9	30°	10774.7	9344.4	5351.0	3454.0	3153.9	3153.9	3132.8	3144.5	3153.9	3177.3
12019.9	32.5°	11091.3	9217.7	4743.7	3092.9	3027.2	3003.8	3024.9	3048.3	3057.7	3088.2
12814.8	35°	11555.6	9128.6	4260.7	2895.9	2895.9	2865.4	2877.2	2872.5	2851.4	2837.3
13776.2	37.5°	12169.9	9123.9	3862.0	2804.5	2785.7	2781.0	2783.4	2752.9	2670.8	2572.3
14939.2	40°	12908.6	9250.6	3554.8	2741.2	2727.1	2755.2	2741.2	2659.1	2434.0	2262.8
16369.6	42.5°	13900.5	9611.7	3357.9	2663.8	2706.0	2741.2	2684.9	2401.2	2248.7	2133.8
17999.3	45°	15068.2	10197.9	3257.0	2581.7	2666.1	2708.3	2436.3	2312.1	2190.1	2051.8
19776.7	47.5°	16390.7	10936.5	3233.6	2504.3	2577.0	2602.8	2330.8	2274.5	2136.2	1986.1
21563.5	50°	17830.5	11811.2	3296.9	2412.9	2448.1	2359.0	2295.6	2244.1	2101.0	1953.3
23394.9	52.5°	19319.5	12774.9	3423.5	2288.6	2319.1	2220.6	2281.6	2237.0	2079.9	1880.6
25287.2	55°	20782.7	13745.7	3545.5	2143.2	2187.8	2096.3	2241.7	2208.9	1983.8	1758.7
27306.1	57.5°	22269.3	14711.8	3665.1	2014.3	2061.2	1976.7	2178.4	2133.8	1875.9	1646.1
29510.3	60°	23814.6	15649.7	3721.3	1890.0	1922.8	1866.5	2082.3	2004.9	1754.0	1531.2
31677.0	62.5°	25261.4	16430.6	3629.9	1765.7	1786.8	1763.4	1955.6	1852.5	1632.0	1402.2
33935.1	65°	26712.9	16894.9	3348.5	1643.8	1648.5	1636.7	1777.4	1688.3	1489.0	1289.7
35911.9	67.5°	28028.4	17155.2	2900.6	1512.4	1500.7	1496.0	1610.9	1510.1	1350.7	1177.1
37414.9	70°	28307.4	16493.9	2215.9	1357.7	1357.7	1346.0	1428.0	1324.9	1198.2	1057.5
36338.6	72.5°	25854.7	13874.7	1573.4	1181.8	1200.6	1177.1	1245.1	1158.4	1043.5	949.7
31318.2	75°	20848.3	10174.4	1144.3	1001.3	1034.1	994.2	1057.5	996.6	898.1	895.7
21582.3	77.5°	14324.9	6291.3	830.1	825.4	848.8	797.3	870.0	837.1	748.0	708.2
9393.6	80°	6113.1	2509.0	605.0	637.8	637.8	590.9	675.3	684.7	607.3	588.6
1812.6	82.5°	1217.0	712.8	424.4	438.5	412.7	398.6	478.4	529.9	731.6	813.7
546.4	85°	365.8	262.6	255.6	239.2	211.0	213.4	281.4	532.3	656.6	375.2
180.6	87.5°	100.8	65.7	68.0	53.9	44.6	58.6	96.1	403.3	220.4	93.8
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>
8898.8
8615.1
7862.4
6640.7
5301.8
4443.6
3885.5
3719.0
3653.3
3503.3
3332.1
3240.6
3193.7
3114.0
2870.1
2574.7
2258.1
2129.2
2042.4
1974.4
1936.9
1866.5
1746.9
1641.4
1524.2
1399.9
1275.6
1163.1
1052.9
921.5
806.6
663.6
588.6
816.0
323.6
79.7
0.0

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