

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: P946684

Luminaire Tested: **GALN-SB2B-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946684  
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-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

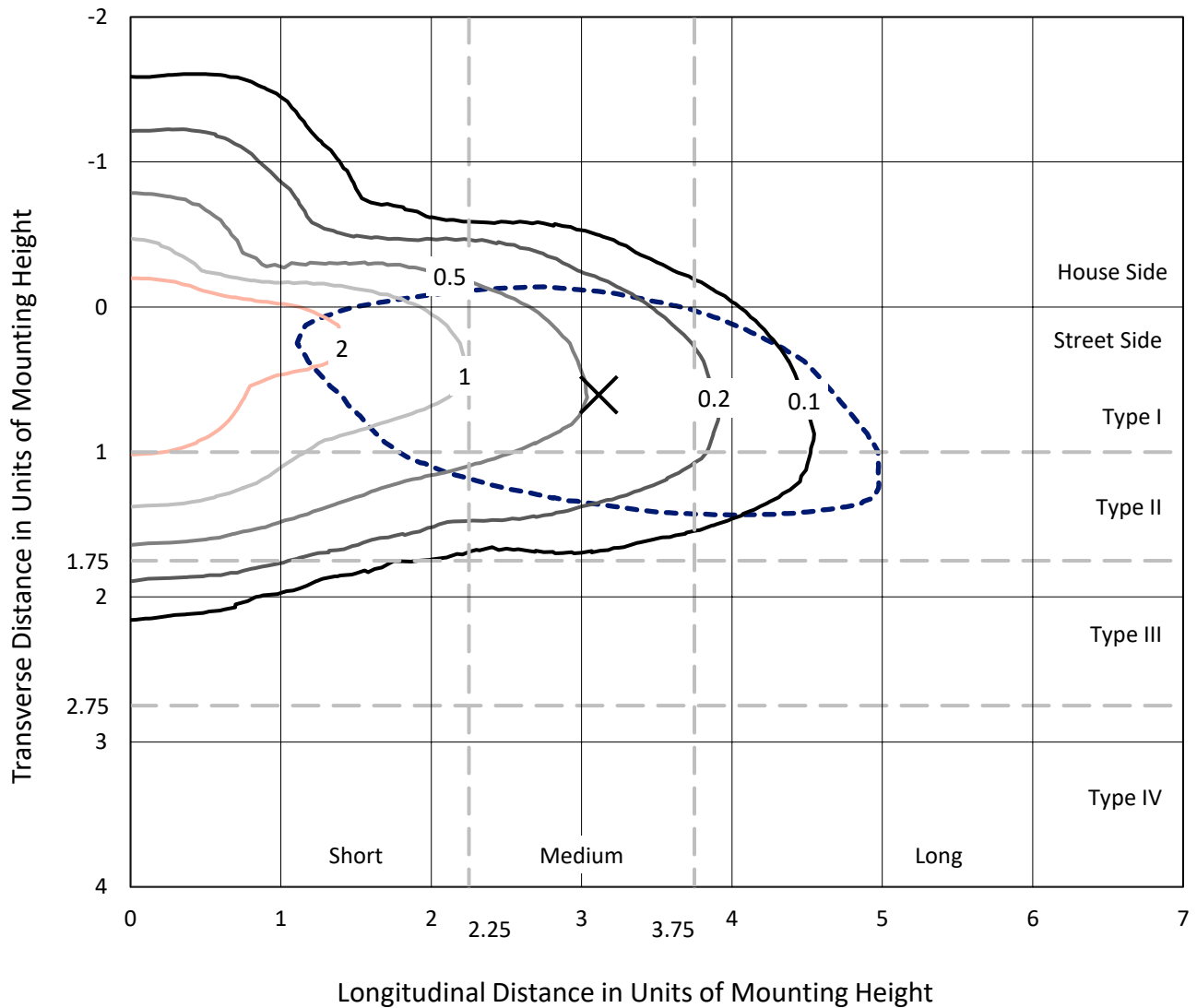
Lumens per Lamp: N/A  
Luminaire Lumens: 11193 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

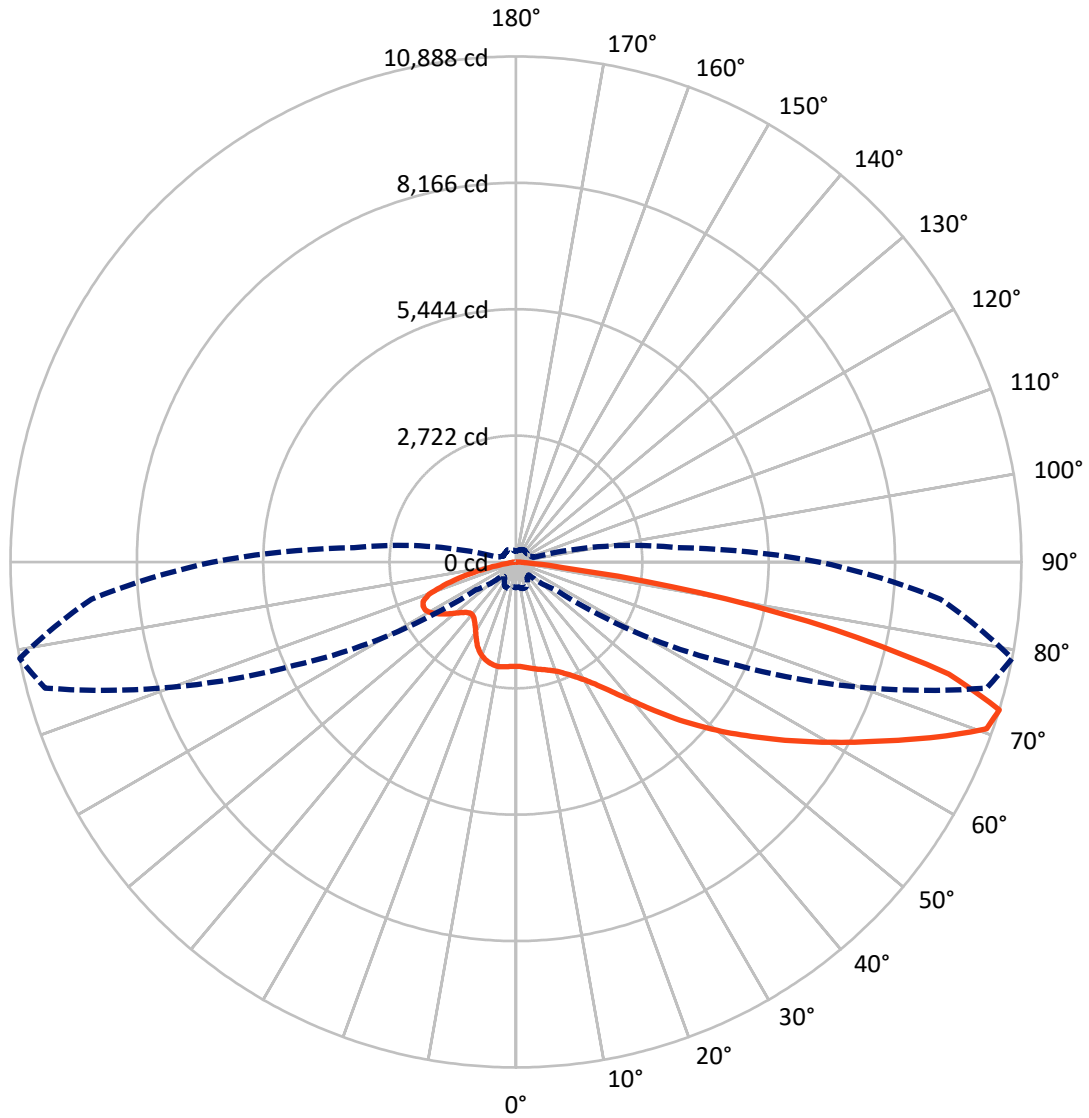
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	2463.1	0.0	2463.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	8729.9	0.0	8729.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	11193.0	0.0	11193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	1.8
10°-20°	533.2	4.8
20°-30°	860.4	7.7
30°-40°	1291.4	11.5
40°-50°	1831.9	16.4
50°-60°	2313.4	20.7
60°-70°	2349.6	21.0
70°-80°	1601.4	14.3
80°-90°	207.8	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°	11193.0	100.0
0°-180°	11193.0	100.0

**Coefficient of Utilization**



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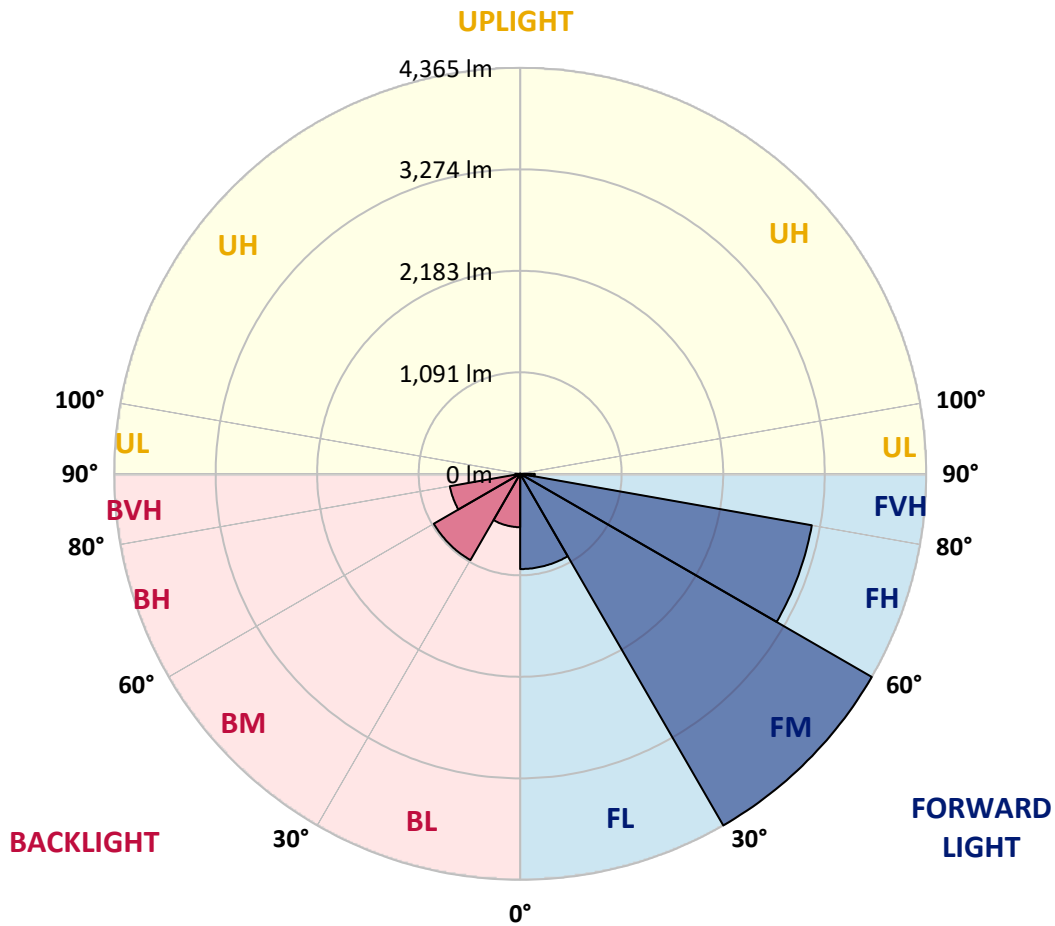
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.9	9.1			
FM (30°-60°)	4365.5	39.0			
FH (60°-80°)	3184.0	28.4			G2/5000
FVH (80°-90°)	156.5	1.4			G2/225
BL (0°-30°)	573.7	5.1	B2/1000		
BM (30°-60°)	1071.2	9.6	B2/2500		
BH (60°-80°)	766.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	51.3	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°	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9
2.5°	2248.1	2237.4	2243.9	2241.6	2244.5	2248.1	2249.3	2251.0	2257.0	2256.4
5°	2243.3	2232.7	2241.6	2238.6	2246.3	2254.6	2261.7	2268.2	2277.7	2281.8
7.5°	2233.3	2226.2	2235.0	2243.9	2258.1	2270.6	2280.6	2295.4	2309.1	2311.4
10°	2174.7	2169.3	2190.1	2213.1	2252.2	2286.0	2307.9	2325.0	2339.8	2342.2
12.5°	2113.7	2107.2	2130.3	2161.6	2225.0	2286.0	2332.1	2354.6	2367.7	2375.4
15°	2103.6	2098.3	2111.3	2138.5	2191.2	2270.0	2348.7	2390.2	2401.4	2410.3
17.5°	2152.2	2142.1	2147.4	2156.9	2187.7	2255.2	2361.7	2430.4	2447.6	2457.1
20°	2264.7	2250.4	2242.2	2223.2	2217.9	2257.5	2360.6	2479.0	2501.5	2513.3
22.5°	2414.4	2405.0	2387.2	2339.3	2287.1	2286.6	2383.1	2541.1	2583.2	2594.4
25°	2595.6	2581.4	2558.9	2493.8	2393.7	2344.0	2421.0	2620.5	2690.9	2693.9
27.5°	2804.0	2782.7	2751.9	2666.1	2531.1	2434.0	2479.0	2711.7	2814.7	2813.5
30°	3023.7	3002.4	2969.8	2865.6	2695.7	2555.4	2559.5	2809.9	2961.5	2955.0
32.5°	3184.1	3168.1	3161.6	3081.1	2885.1	2698.6	2651.9	2918.9	3142.7	3136.8
35°	3307.3	3286.6	3294.3	3253.4	3091.8	2859.1	2764.9	3048.5	3362.9	3362.3
37.5°	3429.2	3410.9	3417.4	3390.2	3283.0	3062.8	2902.9	3207.2	3635.9	3648.9
40°	3540.6	3521.0	3547.1	3521.6	3431.6	3279.5	3059.8	3386.6	3952.0	3976.9
42.5°	3607.5	3592.1	3635.3	3635.9	3560.7	3462.4	3232.1	3584.4	4317.9	4373.6
45°	3630.5	3625.2	3690.3	3704.0	3675.0	3568.4	3387.2	3799.9	4712.2	4811.7
47.5°	3605.7	3595.6	3685.6	3735.9	3759.0	3618.1	3515.7	4033.1	5114.9	5260.5
50°	3480.2	3460.6	3594.4	3700.4	3782.7	3650.7	3645.3	4302.5	5572.5	5731.8
52.5°	3254.6	3239.8	3391.9	3576.1	3730.6	3666.7	3791.0	4596.8	6007.1	6213.1
55°	2966.2	2946.7	3114.3	3354.6	3600.9	3661.3	3936.6	4926.0	6519.8	6728.8
57.5°	2509.2	2470.1	2682.1	2966.2	3389.6	3654.8	4088.2	5253.4	7040.8	7291.3
60°	1842.5	1784.5	2044.4	2381.3	2976.3	3591.5	4275.9	5620.5	7666.1	7891.6
62.5°	1072.8	1039.1	1209.0	1523.4	2243.3	3218.5	4381.3	6047.4	8280.6	8517.5
65°	833.0	823.6	838.4	862.6	1248.7	2409.7	4056.2	6463.6	9062.2	9227.9
67.5°	762.0	754.9	761.4	715.8	633.5	1342.2	3209.0	6569.0	9899.3	10000.0
70°	677.3	669.0	690.3	651.3	498.5	610.4	2073.4	6186.5	10565.4	10754.3
72.5°	551.8	542.3	592.1	574.3	419.8	391.9	1041.4	5277.7	10495.5	10887.5
75°	423.9	418.6	477.8	492.6	342.2	308.5	499.7	3923.0	9236.2	9631.1
77.5°	329.2	325.0	355.2	409.1	275.9	239.2	307.3	2488.5	6960.3	7029.6
80°	246.9	235.0	262.9	316.8	214.9	174.7	208.4	1451.2	4399.6	3988.2
82.5°	154.5	148.6	171.7	211.4	151.6	120.2	135.6	801.7	1763.2	1038.5
85°	88.2	85.8	93.5	120.8	82.3	69.3	77.6	354.1	322.1	221.4
87.5°	35.5	34.3	42.6	53.9	30.2	25.5	27.2	85.3	71.0	65.7
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°
2246.9	0°	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9
2255.8	2.5°	2253.4	2253.4	2245.1	2232.1	2217.3	2207.8	2192.4	2188.3	2172.3	2167.6
2275.9	5°	2280.6	2275.9	2250.4	2213.7	2163.4	2117.2	2066.3	2034.3	1989.3	1973.4
2315.6	7.5°	2315.0	2302.0	2258.1	2177.6	2072.2	1968.6	1860.9	1779.2	1701.0	1673.2
2348.1	10°	2346.4	2328.0	2253.4	2112.5	1930.1	1750.7	1579.0	1458.8	1367.7	1330.4
2384.2	12.5°	2377.7	2344.0	2222.0	2004.1	1728.2	1484.9	1302.0	1208.4	1152.2	1107.2
2413.9	15°	2407.3	2360.0	2173.5	1859.1	1506.8	1259.9	1124.9	1050.3	1005.3	975.7
2457.1	17.5°	2441.7	2373.6	2100.6	1675.0	1296.0	1104.2	994.1	949.1	940.2	936.6
2516.3	20°	2489.6	2386.0	2004.7	1468.9	1140.9	979.9	923.0	918.9	918.3	916.5
2587.3	22.5°	2541.1	2400.8	1878.0	1281.8	1008.9	902.3	892.2	884.0	878.6	878.0
2673.2	25°	2602.1	2405.6	1719.4	1128.5	896.4	865.6	853.8	841.3	837.8	837.8
2770.9	27.5°	2661.3	2389.6	1534.6	995.3	833.0	831.9	816.5	812.3	811.7	813.5
2882.2	30°	2720.5	2359.4	1351.1	872.1	796.3	796.3	791.0	794.0	796.3	802.2
3034.9	32.5°	2800.5	2327.4	1197.7	780.9	764.4	758.4	763.8	769.7	772.1	779.8
3235.6	35°	2917.7	2304.9	1075.8	731.2	731.2	723.5	726.5	725.3	720.0	716.4
3478.4	37.5°	3072.8	2303.7	975.1	708.1	703.4	702.2	702.8	695.1	674.4	649.5
3772.0	40°	3259.3	2335.7	897.6	692.1	688.6	695.7	692.1	671.4	614.6	571.3
4133.2	42.5°	3509.8	2426.9	847.8	672.6	683.2	692.1	677.9	606.3	567.8	538.8
4544.7	45°	3804.6	2574.9	822.4	651.9	673.2	683.8	615.2	583.8	553.0	518.1
4993.5	47.5°	4138.5	2761.4	816.5	632.3	650.7	657.2	588.5	574.3	539.4	501.5
5444.6	50°	4502.1	2982.2	832.4	609.2	618.1	595.6	579.6	566.6	530.5	493.2
5907.0	52.5°	4878.0	3225.6	864.4	577.9	585.6	560.7	576.1	564.8	525.2	474.8
6384.8	55°	5247.5	3470.7	895.2	541.1	552.4	529.3	566.0	557.7	500.9	444.0
6894.6	57.5°	5622.8	3714.6	925.4	508.6	520.4	499.1	550.0	538.8	473.7	415.6
7451.1	60°	6013.0	3951.4	939.6	477.2	485.5	471.3	525.8	506.2	442.9	386.6
7998.2	62.5°	6378.3	4148.6	916.5	445.8	451.2	445.2	493.8	467.7	412.1	354.1
8568.4	65°	6744.8	4265.8	845.5	415.0	416.2	413.3	448.8	426.3	376.0	325.6
9067.5	67.5°	7077.0	4331.6	732.4	381.9	378.9	377.7	406.7	381.3	341.0	297.2
9447.0	70°	7147.4	4164.6	559.5	342.8	342.8	339.8	360.6	334.5	302.5	267.0
9175.2	72.5°	6528.1	3503.3	397.3	298.4	303.1	297.2	314.4	292.5	263.5	239.8
7907.6	75°	5264.1	2569.0	288.9	252.8	261.1	251.0	267.0	251.6	226.8	226.2
5449.4	77.5°	3616.9	1588.5	209.6	208.4	214.3	201.3	219.7	211.4	188.9	178.8
2371.8	80°	1543.5	633.5	152.8	161.0	161.0	149.2	170.5	172.9	153.3	148.6
457.7	82.5°	307.3	180.0	107.2	110.7	104.2	100.7	120.8	133.8	184.7	205.4
138.0	85°	92.4	66.3	64.5	60.4	53.3	53.9	71.0	134.4	165.8	94.7
45.6	87.5°	25.5	16.6	17.2	13.6	11.2	14.8	24.3	101.8	55.7	23.7
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>
2246.9
2175.2
1985.2
1676.7
1338.7
1122.0
981.1
939.0
922.4
884.5
841.3
818.2
806.4
786.3
724.7
650.1
570.2
537.6
515.7
498.5
489.0
471.3
441.1
414.4
384.8
353.5
322.1
293.7
265.8
232.7
203.7
167.6
148.6
206.0
81.7
20.1
0.0

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