

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: P947048

Luminaire Tested: **GALN-SB2C-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

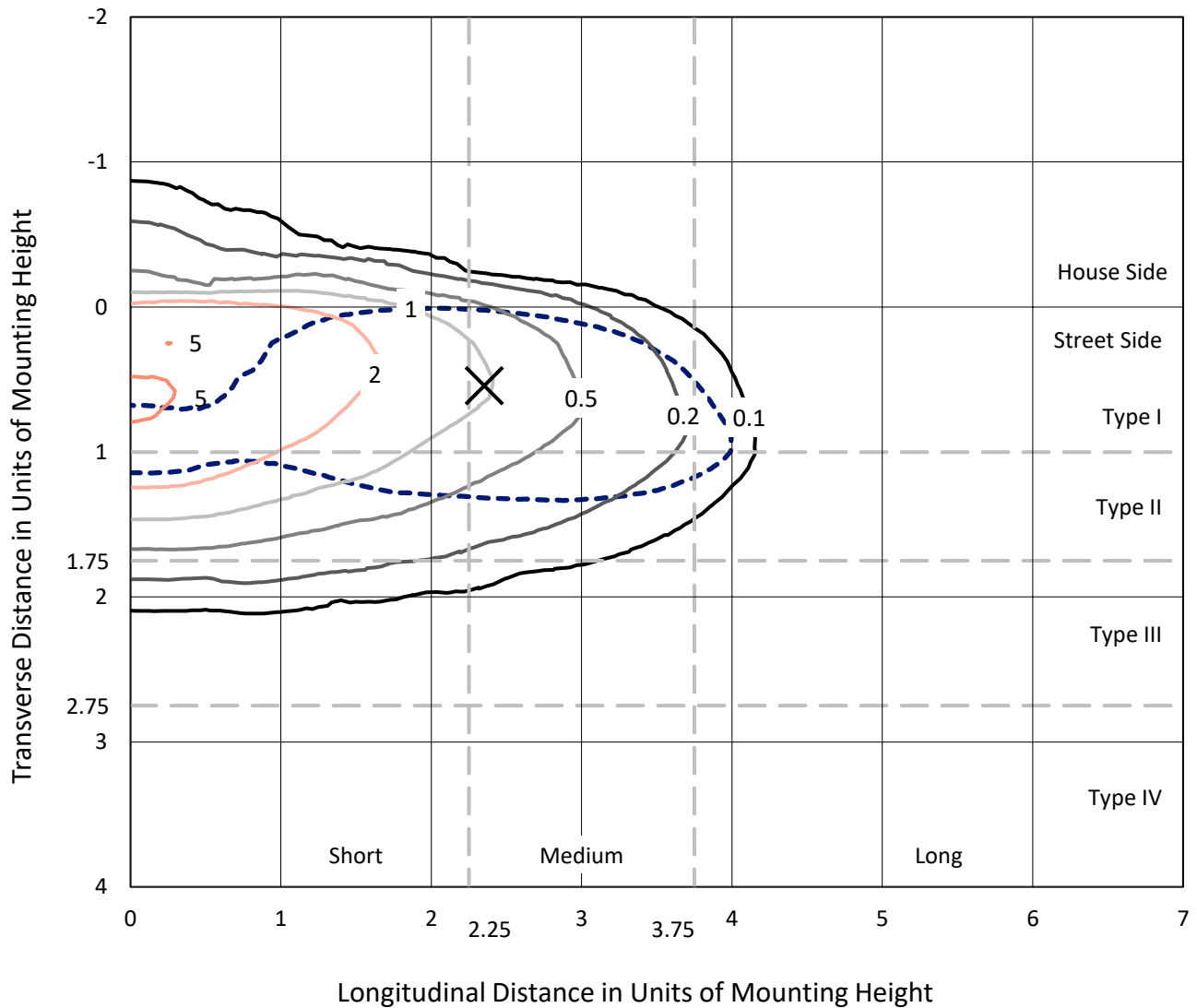
Lumens per Lamp: N/A  
Luminaire Lumens: 12681 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

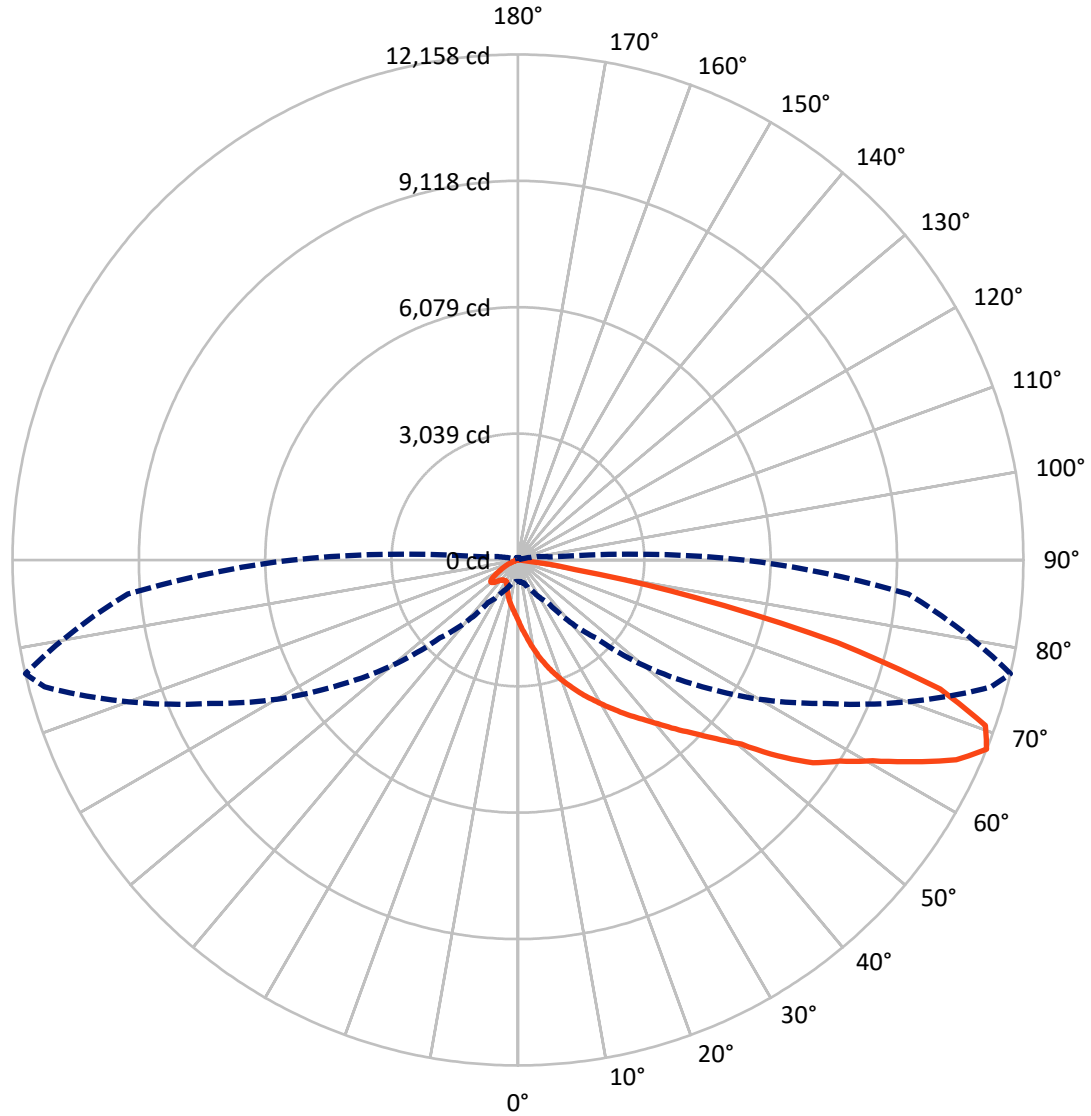
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	932.9	0.0	932.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	11748.1	0.0	11748.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	12681.0	0.0	12681.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	1.2
10°-20°	522.7	4.1
20°-30°	1008.6	8.0
30°-40°	1751.0	13.8
40°-50°	2542.3	20.0
50°-60°	2919.5	23.0
60°-70°	2534.7	20.0
70°-80°	1193.9	9.4
80°-90°	59.0	0.5
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°	12681.0	100.0
0°-180°	12681.0	100.0

**Coefficient of Utilization**



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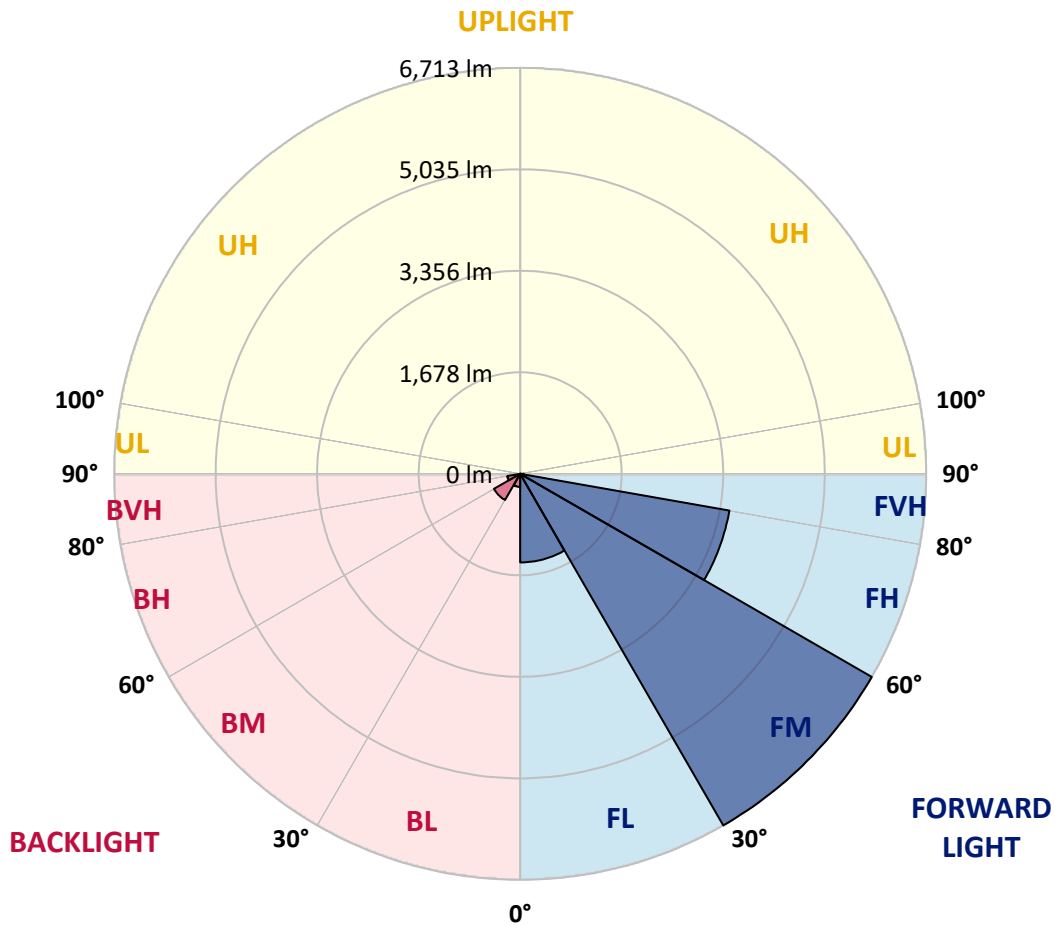
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.5	11.5			
FM (30°-60°)	6713.0	52.9			
FH (60°-80°)	3512.6	27.7			G2/5000
FVH (80°-90°)	58.0	0.5			G1/100
BL (0°-30°)	216.0	1.7	B1/500		
BM (30°-60°)	499.9	3.9	B1/1000		
BH (60°-80°)	216.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	2024.5	2037.1	2019.0	1984.4	1932.4	1898.6	1815.9	1737.9	1651.3	1623.7
5°	2467.9	2478.9	2458.4	2420.6	2351.3	2285.2	2176.5	2013.5	1844.2	1789.9
7.5°	2796.3	2802.6	2794.7	2760.0	2693.9	2619.1	2497.8	2304.9	2053.7	1993.8
10°	3032.5	3053.0	3050.6	3037.2	2993.1	2932.5	2803.3	2583.6	2288.3	2211.2
12.5°	3189.2	3212.0	3225.4	3255.3	3253.0	3214.4	3101.0	2868.7	2522.2	2431.7
15°	3234.9	3259.3	3310.5	3379.8	3441.2	3460.9	3381.3	3148.2	2779.7	2664.0
17.5°	3208.9	3246.7	3308.1	3417.6	3552.2	3641.2	3632.5	3418.3	3013.6	2881.3
20°	3266.4	3302.6	3350.6	3442.8	3599.5	3760.9	3825.5	3676.6	3245.9	3107.3
22.5°	3584.5	3578.2	3582.9	3597.9	3691.6	3851.4	3984.5	3911.3	3475.8	3334.1
25°	4088.5	4060.1	4012.1	3931.0	3907.4	3984.5	4123.1	4119.2	3718.4	3566.4
27.5°	4666.5	4661.7	4549.1	4353.8	4243.6	4213.7	4279.8	4321.6	3958.5	3796.3
30°	5220.0	5232.6	5080.7	4863.3	4661.0	4543.6	4483.8	4513.7	4202.7	4044.4
32.5°	5702.0	5715.4	5550.0	5295.6	5045.2	4903.5	4777.5	4703.5	4468.8	4296.4
35°	6109.1	6122.5	5932.7	5651.6	5384.6	5256.3	5113.7	4911.4	4736.5	4575.9
37.5°	6472.9	6469.0	6214.6	5931.1	5668.9	5567.3	5492.5	5167.3	5012.2	4857.0
40°	6687.9	6704.4	6487.1	6174.4	5920.1	5846.1	5841.3	5484.6	5330.3	5179.9
42.5°	6750.9	6780.0	6622.5	6365.8	6135.1	6054.7	6178.4	5828.0	5700.4	5553.9
45°	6637.5	6665.8	6594.2	6416.2	6281.5	6229.6	6468.2	6183.9	6095.7	5950.8
47.5°	6306.7	6342.2	6359.5	6321.7	6320.1	6372.9	6728.0	6558.7	6565.0	6417.0
50°	5666.5	5726.4	5885.4	6019.3	6226.4	6486.3	6980.8	6965.0	7094.2	6966.6
52.5°	4502.7	4587.7	5135.8	5502.0	5967.3	6465.0	7258.8	7617.1	8022.6	7836.0
55°	3618.4	3618.4	4064.1	4749.1	5461.8	6324.8	7380.0	8040.7	8654.9	8610.8
57.5°	2949.8	2985.2	3269.5	3875.1	4730.2	5991.0	7454.8	8306.9	9164.4	9132.1
60°	1820.6	1897.0	2434.0	3031.7	3897.9	5396.4	7407.6	8576.2	9782.6	9808.6
62.5°	1025.3	1053.6	1293.0	2181.3	3030.9	4597.2	7046.2	8726.6	10573.2	10683.4
65°	707.9	722.1	814.2	1357.6	2100.9	3660.1	6339.8	8632.9	11365.4	11588.2
67.5°	514.2	521.3	578.8	829.2	1246.5	2653.7	5232.6	8160.4	11785.1	12157.5
70°	395.3	400.0	441.8	544.9	736.3	1637.9	3800.3	7221.0	11481.1	11926.0
72.5°	321.3	326.0	358.3	403.2	488.2	968.6	2303.3	5864.2	10139.3	10619.6
75°	270.9	277.2	306.3	335.5	382.7	622.1	1080.4	4083.7	7624.9	7939.9
77.5°	150.4	138.6	248.8	278.0	322.9	393.7	505.5	2403.3	4270.4	4357.8
80°	93.7	96.9	197.7	223.6	248.0	198.4	231.5	925.3	1480.4	1406.4
82.5°	5.5	12.6	152.0	161.4	170.1	85.0	87.4	314.2	356.7	327.6
85°	0.0	0.0	69.3	55.9	59.1	24.4	25.2	73.2	48.0	52.0
87.5°	0.0	0.0	0.0	1.6	0.0	2.4	4.7	6.3	2.4	3.1
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°
1462.3	0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
1537.1	2.5°	1482.0	1426.9	1315.1	1205.6	1116.6	1033.9	974.9	919.0	890.6	889.0
1636.3	5°	1526.9	1411.1	1187.5	989.8	830.8	703.2	620.5	561.5	531.5	521.3
1758.4	7.5°	1589.9	1415.8	1075.7	800.8	613.4	504.0	456.7	437.8	431.5	424.4
1896.2	10°	1669.4	1426.9	975.7	644.9	483.5	428.4	409.5	401.6	396.9	392.2
2051.3	12.5°	1758.4	1437.1	876.4	535.5	425.2	396.9	383.5	374.0	367.7	362.2
2210.4	15°	1845.0	1443.4	773.3	459.1	395.3	372.5	358.3	348.1	339.4	333.1
2366.3	17.5°	1930.8	1452.1	676.4	413.4	370.9	348.1	333.9	321.3	314.2	307.1
2530.1	20°	2026.1	1450.5	585.1	381.1	346.5	323.6	308.7	296.9	289.8	281.9
2703.3	22.5°	2114.3	1442.6	504.8	353.6	321.3	299.2	282.7	270.9	263.8	257.5
2880.5	25°	2215.9	1436.3	437.8	328.4	297.7	275.6	257.5	246.5	238.6	233.1
3058.5	27.5°	2313.5	1426.9	389.0	305.5	274.8	253.6	236.2	223.6	216.6	212.6
3242.0	30°	2409.6	1424.5	370.9	283.5	254.3	233.1	215.8	204.0	198.4	196.9
3443.5	32.5°	2525.4	1430.8	378.8	275.6	235.4	214.2	197.7	189.0	183.5	183.5
3668.0	35°	2649.0	1429.2	390.6	282.7	222.9	195.3	182.7	177.2	171.7	171.7
3916.8	37.5°	2804.1	1431.6	400.0	294.5	218.1	179.5	172.5	165.4	162.2	162.2
4189.3	40°	3035.6	1509.6	395.3	304.7	216.6	168.5	154.3	152.0	149.6	149.6
4497.2	42.5°	3319.1	1678.9	401.6	305.5	215.8	160.6	141.7	146.5	141.0	140.2
4844.4	45°	3629.4	1863.9	441.8	289.0	215.0	156.7	135.4	141.0	132.3	132.3
5246.8	47.5°	3937.3	2047.4	482.7	265.4	212.6	155.9	129.9	126.8	124.4	125.2
5771.3	50°	4361.7	2197.0	498.5	233.1	207.1	154.3	119.7	120.5	118.9	120.5
6510.7	52.5°	4824.0	2228.5	479.6	196.9	191.4	149.6	112.6	115.8	115.0	116.5
7031.2	55°	5112.2	2194.6	396.1	163.8	166.9	130.7	105.5	111.8	111.8	111.8
7539.9	57.5°	5409.8	2050.5	281.1	133.1	138.6	107.1	99.2	107.9	107.1	106.3
8152.5	60°	5624.0	1817.4	185.1	109.5	110.2	88.2	92.1	101.6	100.8	96.9
8784.1	62.5°	5783.9	1560.0	118.9	92.9	84.3	79.5	84.3	92.1	89.0	80.3
9319.5	65°	5765.8	1203.2	91.3	79.5	69.3	69.3	73.2	80.3	70.9	56.7
9421.9	67.5°	5429.5	814.2	75.6	66.9	58.3	57.5	60.6	66.9	60.6	48.0
8897.5	70°	4828.7	532.3	60.6	52.0	46.5	42.5	48.8	57.5	51.2	38.6
7574.5	72.5°	3919.2	324.4	45.7	37.8	33.9	27.6	38.6	47.2	40.9	28.3
5267.3	75°	2535.6	165.4	31.5	24.4	18.1	16.5	28.3	35.4	28.3	17.3
2337.2	77.5°	970.1	69.3	17.3	11.0	9.4	7.9	15.7	21.3	11.8	3.9
452.8	80°	186.6	29.1	8.7	5.5	4.7	3.1	2.4	1.6	0.0	0.0
80.3	82.5°	32.3	9.4	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
15.7	85°	11.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
1462.3
887.5
519.7
422.9
390.6
360.7
332.3
306.3
281.1
256.7
232.3
212.6
196.1
183.5
171.7
162.2
149.6
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