

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: P947409

Luminaire Tested: **GALN-SB2D-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

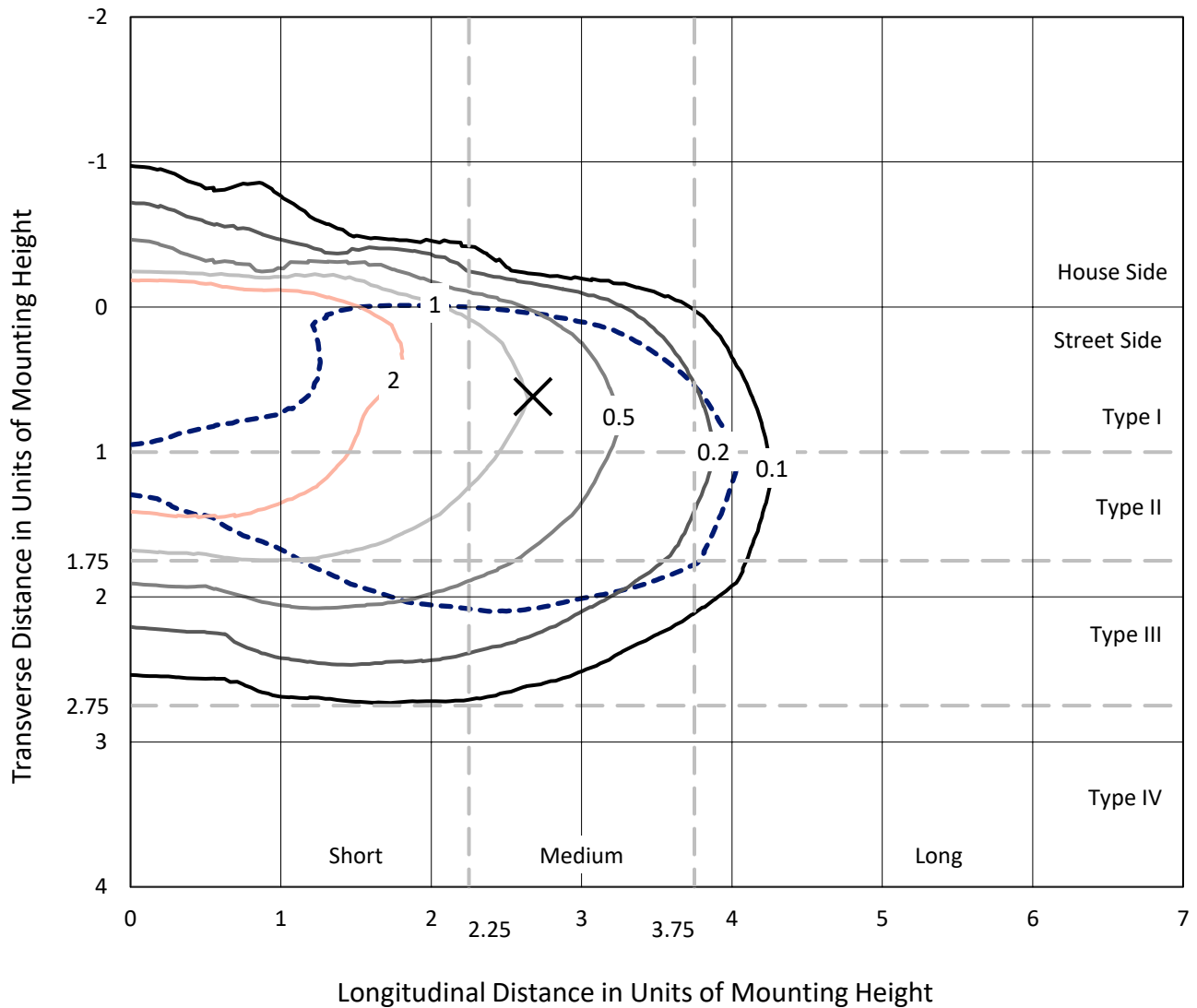
Lumens per Lamp: N/A  
Luminaire Lumens: 16942 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

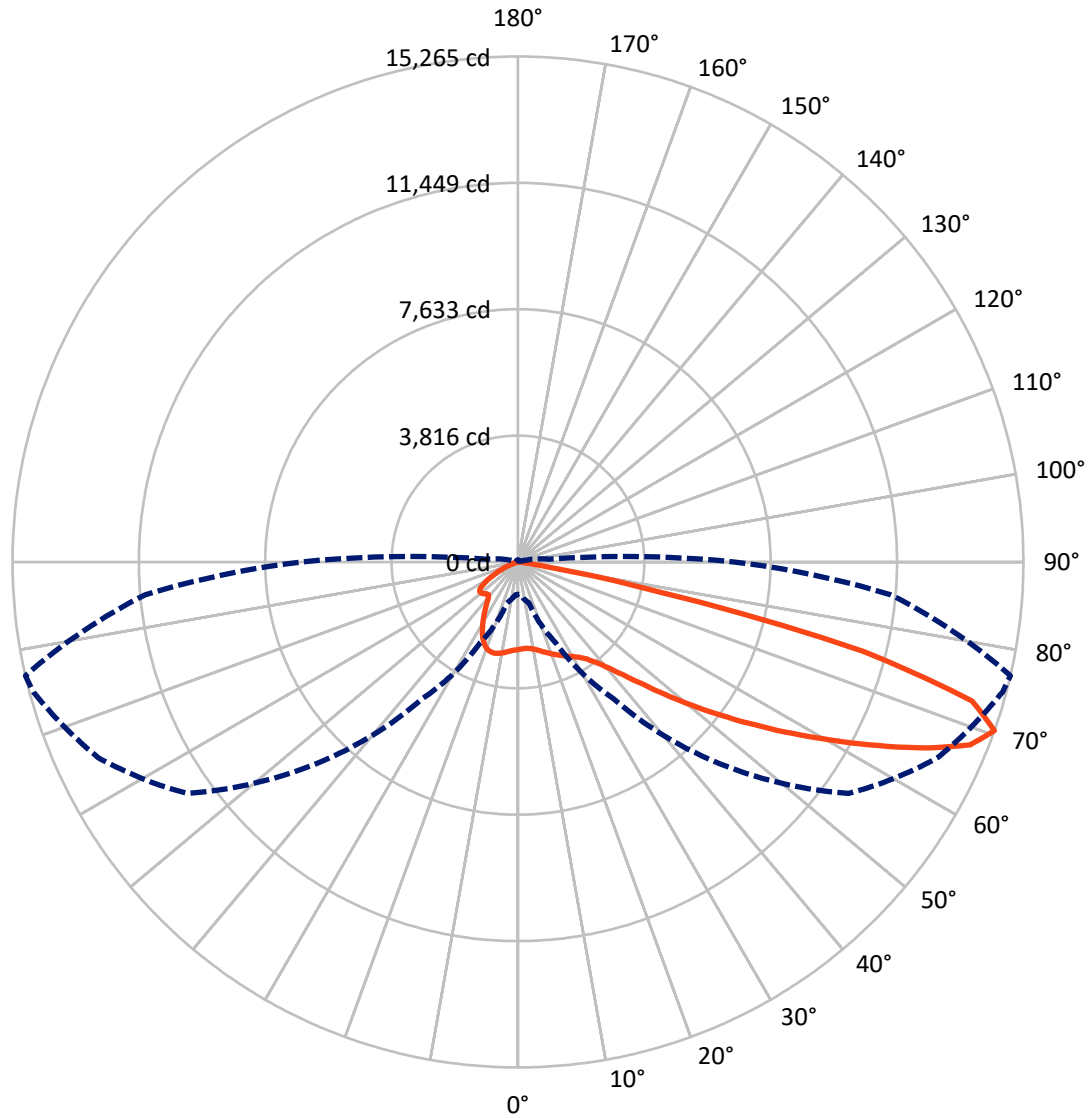
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1785.9	0.0	1785.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	15156.1	0.0	15156.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16942.0	0.0	16942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.8	1.3
10°-20°	540.7	3.2
20°-30°	836.3	4.9
30°-40°	1517.4	9.0
40°-50°	2864.3	16.9
50°-60°	4138.7	24.4
60°-70°	4405.6	26.0
70°-80°	2334.6	13.8
80°-90°	76.7	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°	16942.0	100.0
0°-180°	16942.0	100.0

**Coefficient of Utilization**



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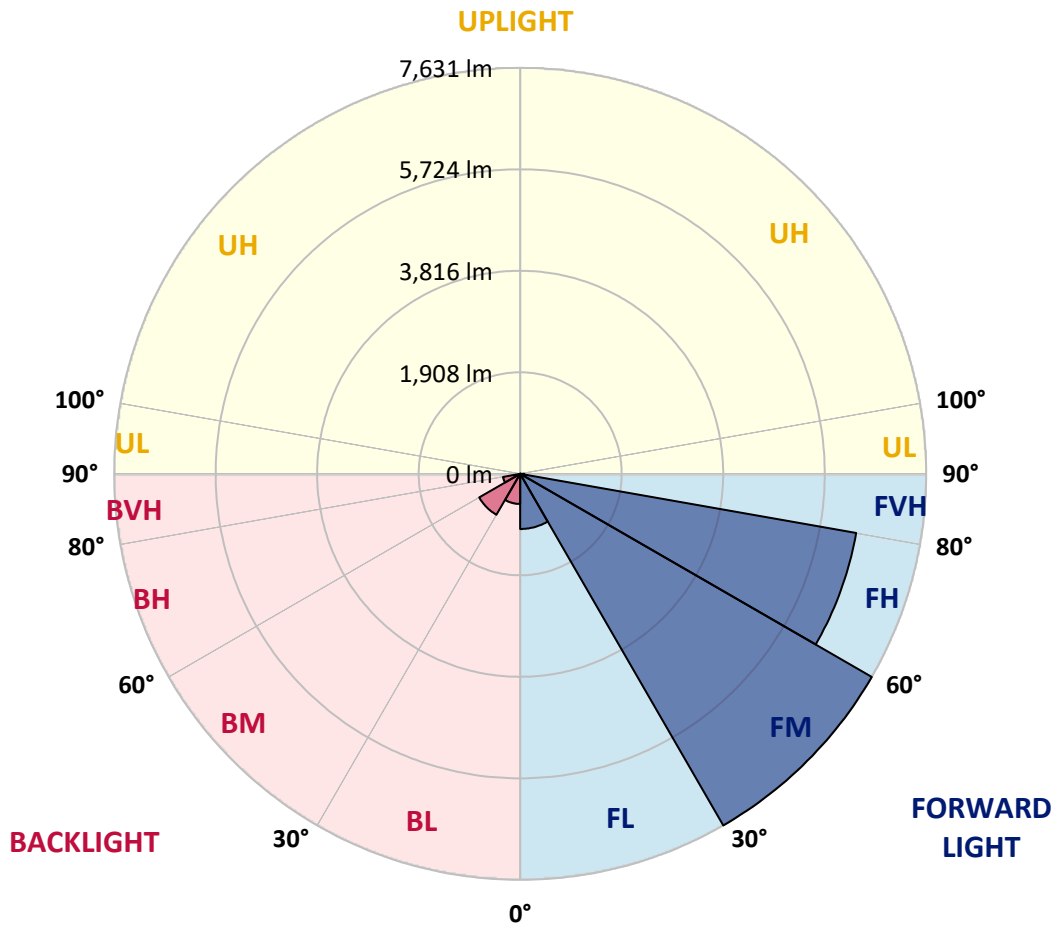
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.3	6.1			
FM (30°-60°)	7631.4	45.0			
FH (60°-80°)	6412.8	37.9			G3/7500
FVH (80°-90°)	74.6	0.4			G1/100
BL (0°-30°)	567.4	3.3	B2/1000		
BM (30°-60°)	889.0	5.2	B1/1000		
BH (60°-80°)	327.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6
2.5°	2481.1	2503.6	2500.3	2515.3	2520.7	2542.1	2563.5	2592.4	2624.5	2623.4
5°	2340.9	2363.4	2368.8	2389.1	2414.8	2447.9	2491.8	2549.6	2609.5	2619.1
7.5°	2175.1	2198.6	2212.5	2253.2	2300.3	2368.8	2440.4	2525.0	2624.5	2638.4
10°	2009.3	2030.7	2048.9	2106.6	2181.5	2283.2	2399.8	2521.7	2655.5	2675.8
12.5°	1906.6	1926.9	1947.2	1997.5	2090.6	2214.7	2373.0	2536.7	2706.8	2735.7
15°	1870.2	1888.4	1904.4	1949.4	2036.0	2177.2	2367.7	2567.8	2772.1	2810.6
17.5°	1875.5	1885.2	1895.9	1930.1	2014.6	2160.1	2377.3	2621.2	2849.1	2883.4
20°	1906.6	1911.9	1913.0	1936.5	2011.4	2158.0	2396.6	2672.6	2921.9	2967.9
22.5°	1946.1	1948.3	1946.1	1962.2	2031.7	2174.0	2422.2	2734.7	3003.2	3046.0
25°	2131.2	2090.6	2039.2	2008.2	2066.0	2205.1	2460.8	2818.1	3092.0	3133.7
27.5°	2705.8	2589.2	2405.1	2198.6	2136.6	2250.0	2514.3	2902.6	3181.9	3219.3
30°	3638.7	3485.7	3173.3	2707.9	2363.4	2344.1	2583.8	2987.2	3277.1	3317.8
32.5°	4573.8	4536.4	4175.8	3531.7	2873.7	2553.8	2699.4	3101.6	3403.3	3435.4
35°	5519.6	5443.6	5148.3	4511.8	3660.1	2980.7	2891.9	3251.4	3569.2	3605.6
37.5°	6243.9	6197.9	6015.0	5490.7	4593.1	3639.8	3221.5	3483.6	3809.9	3850.6
40°	6883.7	6862.3	6800.3	6454.7	5636.2	4502.1	3733.9	3843.1	4143.7	4191.9
42.5°	7386.6	7436.9	7472.2	7375.9	6711.5	5486.4	4423.0	4348.1	4609.1	4658.3
45°	7901.2	7918.3	8060.6	8199.7	7779.2	6515.7	5199.7	4939.7	5187.9	5248.9
47.5°	8231.8	8300.3	8550.6	8795.6	8676.9	7536.4	6034.2	5638.4	5858.8	5973.2
50°	8256.4	8385.9	8730.4	9157.2	9330.6	8507.8	6941.5	6434.4	6668.7	6794.9
52.5°	7846.6	8047.8	8581.6	9206.5	9683.6	9330.6	7879.8	7230.4	7531.0	7695.8
55°	6016.0	6279.2	8022.1	8939.0	9697.5	9954.3	8793.5	8059.5	8491.8	8677.9
57.5°	5241.4	5374.1	6307.0	8474.7	9439.7	10205.7	9619.4	8849.1	9537.1	9768.2
60°	4360.9	4535.3	5289.6	7715.0	9089.8	10230.4	10349.1	9867.7	10670.1	10930.1
62.5°	2963.6	3153.0	3903.0	6409.8	8611.6	10218.6	10947.2	10916.2	11929.4	12208.6
65°	1835.9	1954.7	2449.0	5233.9	7942.9	10231.4	11573.1	12189.3	13258.2	13541.7
67.5°	1450.8	1505.3	1763.2	4018.5	6790.6	9942.6	12197.9	13386.6	14508.9	14733.6
70°	974.7	1007.8	1282.8	2694.0	5052.1	8609.5	12186.1	13987.8	15153.0	15265.3
72.5°	513.6	539.2	750.0	1247.5	3051.3	6119.8	10272.1	13268.9	14512.1	14343.0
75°	256.8	299.6	505.0	633.4	1303.1	3413.0	6378.7	10461.5	11422.2	10767.4
77.5°	194.7	235.4	417.3	417.3	453.6	1149.1	2701.5	5705.8	5262.8	4382.3
80°	124.1	160.5	364.8	315.6	189.4	292.1	704.0	1598.4	1118.0	850.6
82.5°	72.8	104.8	303.9	208.6	105.9	108.1	199.0	340.2	289.9	225.7
85°	28.9	68.5	208.6	82.4	41.7	26.7	59.9	72.8	59.9	44.9
87.5°	0.0	16.0	36.4	0.0	3.2	2.1	4.3	5.3	5.3	4.3
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°
2642.6	0°	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6	2642.6
2644.8	2.5°	2654.4	2656.6	2663.0	2664.0	2649.1	2629.8	2622.3	2619.1	2606.3	2605.2
2661.9	5°	2686.5	2696.1	2686.5	2658.7	2592.4	2499.3	2428.7	2370.9	2318.5	2302.4
2720.7	7.5°	2750.7	2760.3	2731.4	2622.3	2455.4	2270.3	2103.4	1985.7	1879.8	1840.2
2792.4	10°	2842.7	2855.6	2764.6	2544.2	2248.9	1951.5	1669.0	1470.0	1314.9	1251.8
2889.8	12.5°	2958.3	2963.6	2782.8	2425.5	1980.4	1555.6	1155.5	942.6	804.6	753.2
3007.5	15°	3085.6	3078.1	2784.9	2263.9	1614.5	1099.9	754.3	619.5	563.8	546.7
3125.2	17.5°	3219.3	3188.3	2742.1	2030.7	1213.3	752.1	559.6	527.5	517.8	513.6
3241.8	20°	3350.9	3281.4	2664.0	1725.7	870.9	561.7	508.2	498.6	493.2	491.1
3359.5	22.5°	3470.7	3352.0	2530.3	1371.6	632.3	496.4	480.4	471.8	462.2	457.9
3474.0	25°	3587.4	3392.6	2342.0	1041.0	506.1	464.3	451.5	435.4	422.6	417.3
3597.0	27.5°	3700.8	3418.3	2106.6	770.3	451.5	434.4	410.8	388.4	378.7	376.6
3728.6	30°	3821.7	3426.9	1839.2	574.5	418.3	396.9	362.7	337.0	331.7	332.7
3906.2	32.5°	3969.3	3439.7	1569.5	470.8	390.5	352.0	311.3	284.6	280.3	284.6
4165.1	35°	4145.9	3465.4	1309.6	433.3	365.9	306.0	262.1	239.7	235.4	238.6
4496.8	37.5°	4385.5	3507.1	1066.7	425.8	345.6	267.5	220.4	202.2	202.2	203.3
4903.3	40°	4704.3	3618.4	849.5	420.5	334.9	238.6	186.2	178.7	181.9	184.0
5421.2	42.5°	5092.7	3854.8	702.9	414.1	323.1	225.7	169.0	165.8	171.2	173.3
6041.7	45°	5528.2	4154.4	651.6	403.4	312.4	234.3	161.6	157.3	163.7	164.8
6737.1	47.5°	5978.6	4447.6	645.1	391.6	301.7	247.1	159.4	149.8	157.3	158.3
7479.7	50°	6434.4	4639.1	651.6	373.4	284.6	247.1	160.5	142.3	148.7	151.9
8250.0	52.5°	6893.3	4726.8	647.3	333.8	254.6	232.2	160.5	135.9	142.3	144.4
9082.4	55°	7338.4	4709.7	582.0	275.0	216.1	205.4	156.2	130.5	134.8	135.9
9868.7	57.5°	7690.4	4471.1	461.1	214.0	175.5	171.2	142.3	124.1	127.3	126.2
10589.8	60°	7874.4	3946.9	329.5	164.8	138.0	134.8	125.2	115.5	117.7	112.3
11200.8	62.5°	7876.6	3253.6	220.4	130.5	110.2	107.0	107.0	103.8	101.6	90.9
11673.6	65°	7708.6	2484.3	146.6	103.8	88.8	83.5	89.9	88.8	81.3	66.3
11818.1	67.5°	7327.7	1628.4	111.3	81.3	68.5	65.3	71.7	74.9	69.5	55.6
11291.7	70°	6544.6	947.9	92.0	63.1	51.4	48.1	57.8	64.2	57.8	44.9
9651.5	72.5°	5436.1	511.4	74.9	47.1	35.3	32.1	46.0	52.4	46.0	33.2
6192.6	75°	3527.5	273.9	57.8	31.0	18.2	20.3	34.2	38.5	32.1	21.4
1817.8	77.5°	1184.4	120.9	36.4	15.0	8.6	8.6	20.3	23.5	15.0	7.5
330.6	80°	264.3	50.3	15.0	6.4	3.2	3.2	4.3	4.3	2.1	0.0
101.6	82.5°	86.7	20.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
25.7	85°	33.2	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	12.8	1.1	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°
2642.6
2607.3
2292.8
1824.2
1225.0
737.2
546.7
512.5
488.9
456.8
415.1
374.5
332.7
283.5
237.5
202.2
184.0
173.3
165.8
159.4
153.0
144.4
135.9
126.2
111.3
87.7
64.2
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