

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: P947410

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20892 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

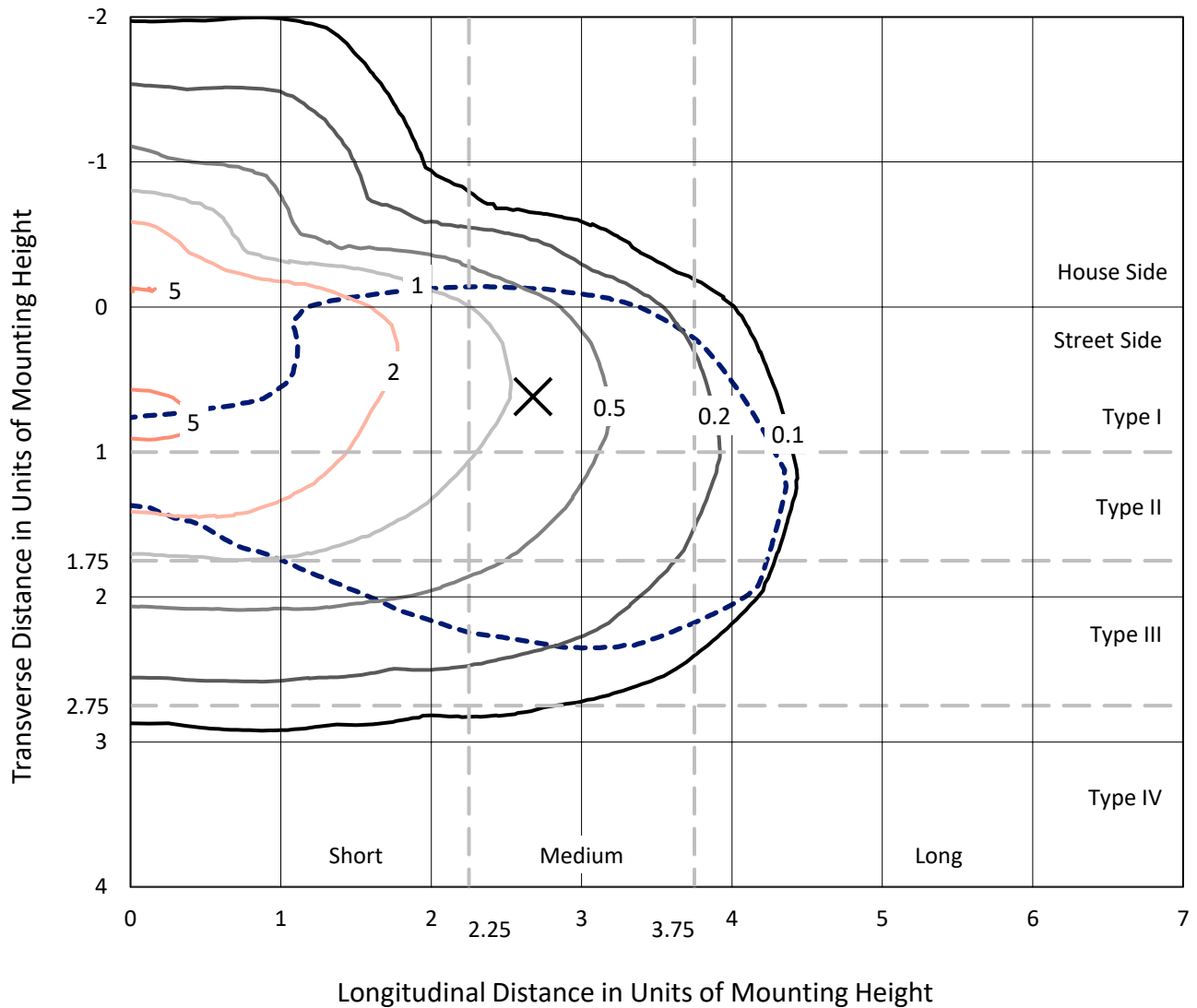
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

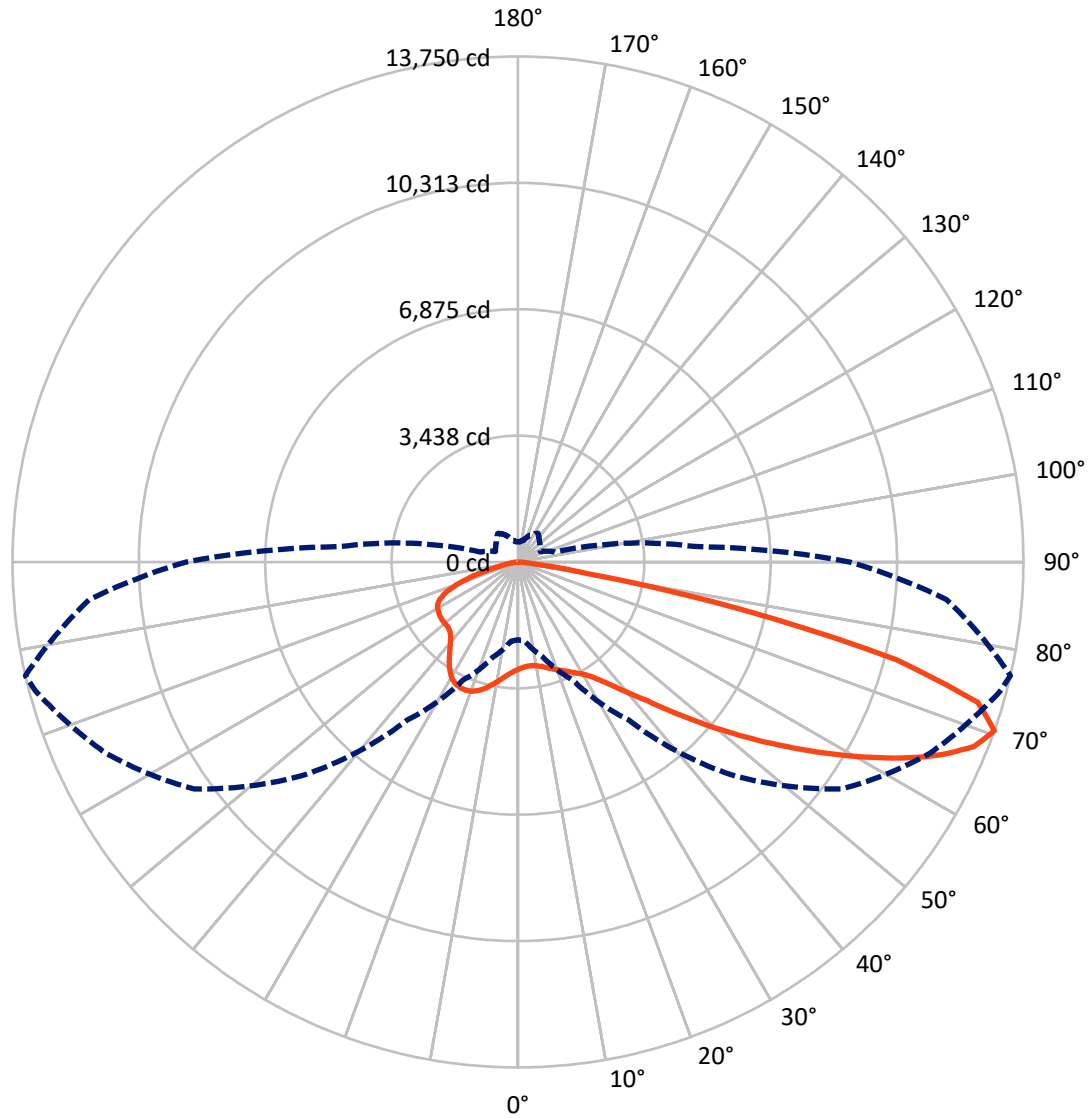
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	4575.0	0.0	4575.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16317.0	0.0	16317.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	20892.0	0.0	20892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.3
10°-20°	802.3	3.8
20°-30°	1372.0	6.6
30°-40°	2206.3	10.6
40°-50°	3444.6	16.5
50°-60°	4601.2	22.0
60°-70°	4904.2	23.5
70°-80°	3019.0	14.5
80°-90°	264.5	1.3
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°	20892.0	100.0
0°-180°	20892.0	100.0



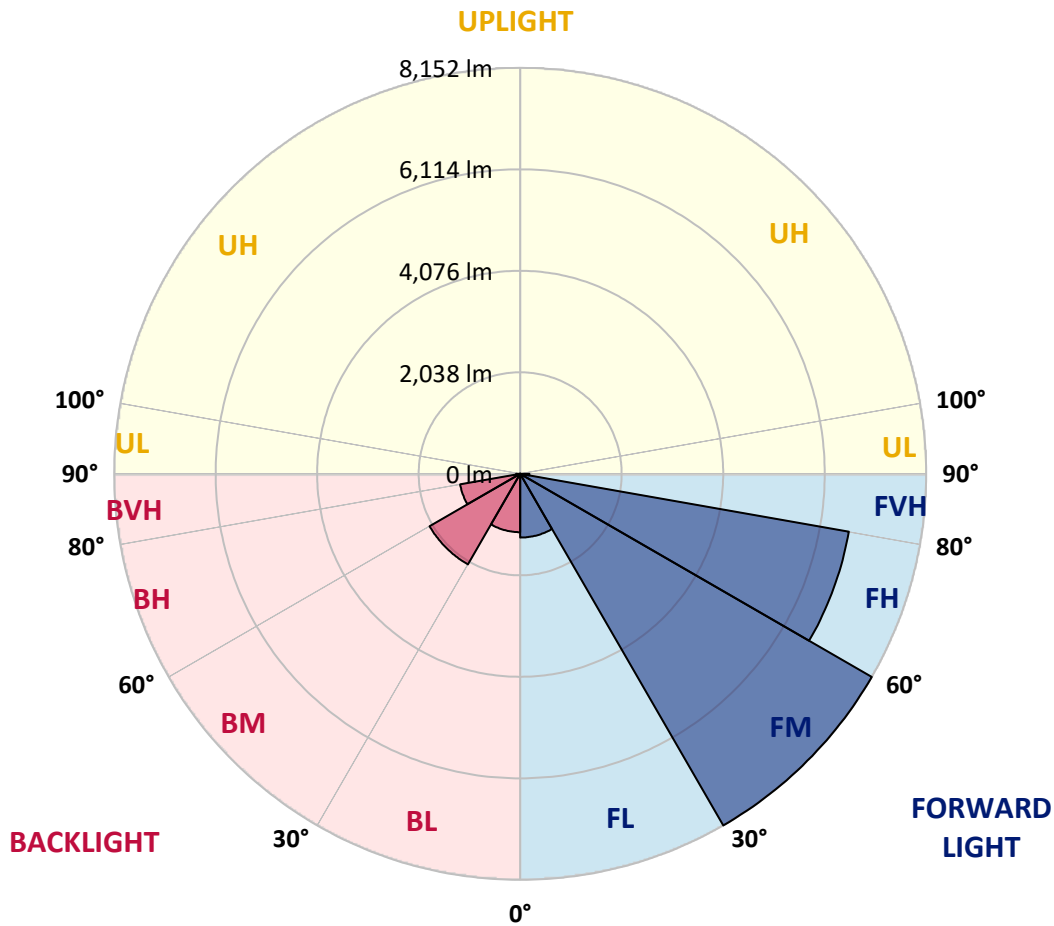
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.0	6.1			
FM (30°-60°)	8151.6	39.0			
FH (60°-80°)	6700.4	32.1			G3/7500
FVH (80°-90°)	185.0	0.9			G2/225
BL (0°-30°)	1172.3	5.6	B3/2500		
BM (30°-60°)	2100.5	10.1	B2/2500		
BH (60°-80°)	1222.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2686.7	2685.6	2699.6	2703.8	2729.5	2747.7	2781.9	2818.3	2865.4	2870.8
5°	2531.6	2531.6	2547.6	2564.7	2597.9	2634.3	2686.7	2749.8	2831.2	2844.0
7.5°	2400.0	2408.5	2422.4	2455.6	2494.1	2546.6	2626.8	2716.7	2823.7	2844.0
10°	2294.0	2303.7	2320.8	2347.5	2405.3	2478.1	2582.9	2698.5	2841.9	2874.0
12.5°	2260.9	2270.5	2280.1	2300.5	2354.0	2439.6	2564.7	2707.0	2885.7	2917.8
15°	2337.9	2349.7	2342.2	2336.8	2364.7	2442.8	2573.3	2738.1	2940.3	2986.3
17.5°	2515.5	2519.8	2502.7	2452.4	2448.1	2489.8	2614.0	2780.9	3008.8	3059.1
20°	2802.3	2794.8	2759.5	2660.0	2603.3	2594.7	2683.5	2845.1	3079.4	3132.9
22.5°	3191.7	3183.2	3112.6	2955.3	2829.0	2745.6	2784.1	2928.5	3158.6	3218.5
25°	3677.5	3665.8	3562.0	3348.0	3152.2	2945.7	2921.0	3038.7	3255.9	3311.6
27.5°	4244.6	4235.0	4122.6	3840.2	3557.7	3219.6	3091.2	3168.2	3357.6	3420.7
30°	4854.5	4882.3	4683.3	4379.4	4022.1	3576.9	3320.1	3327.6	3489.2	3545.9
32.5°	5571.4	5619.5	5379.9	4994.7	4506.8	3965.3	3609.0	3550.2	3680.7	3727.8
35°	6281.9	6336.4	6137.4	5711.6	5149.8	4423.3	3910.8	3805.9	3935.4	3986.7
37.5°	6896.0	6968.8	6866.1	6495.8	5837.8	4975.4	4304.5	4106.6	4248.9	4313.1
40°	7380.7	7492.0	7484.5	7253.4	6648.9	5645.2	4804.2	4477.9	4638.4	4707.9
42.5°	7774.5	7870.8	7954.2	7942.5	7495.2	6406.0	5391.6	4960.4	5082.4	5162.7
45°	8046.2	8149.0	8328.7	8522.4	8309.5	7220.2	6064.6	5532.9	5644.1	5765.1
47.5°	8289.1	8405.8	8639.0	8946.1	9000.7	8037.7	6801.9	6199.5	6301.1	6426.3
50°	8310.5	8411.1	8772.8	9208.2	9491.8	8823.1	7593.6	6947.4	7042.6	7176.4
52.5°	7793.7	7952.1	8583.4	9200.8	9717.6	9480.0	8380.1	7725.3	7832.3	7992.7
55°	6049.7	6281.9	8028.1	8914.0	9637.3	9904.8	9128.0	8552.3	8689.3	8857.3
57.5°	5210.8	5312.4	6372.8	8391.9	9271.4	10015.0	9759.3	9388.0	9608.4	9792.5
60°	4683.3	4767.8	5394.8	7579.7	8789.9	9840.6	10247.2	10166.9	10547.9	10767.2
62.5°	4118.4	4198.6	4768.9	6328.9	8173.6	9550.6	10555.3	10886.0	11510.8	11750.5
65°	3557.7	3626.2	4172.9	5317.8	7390.3	9260.7	10714.8	11507.6	12402.1	12650.4
67.5°	2932.8	2989.5	3506.3	4486.4	6438.1	8863.7	10794.0	11996.6	13177.9	13390.8
70°	2116.4	2160.3	2694.2	3548.1	5242.9	8181.1	10761.9	12343.3	13580.2	13750.3
72.5°	1000.4	1040.0	1667.0	2303.7	3703.2	6852.1	10112.4	12068.3	13171.4	13086.9
75°	533.9	568.2	957.6	1263.6	1955.9	4697.2	8275.2	10395.9	11060.4	10649.5
77.5°	361.7	388.4	592.8	758.6	893.4	2229.8	5318.9	7197.8	6924.9	6246.5
80°	286.8	314.6	485.8	513.6	432.3	805.7	2197.7	3331.9	2393.5	1914.2
82.5°	220.4	251.4	408.7	372.4	235.4	330.6	639.8	1053.9	613.1	466.5
85°	134.8	168.0	321.0	237.5	132.7	150.9	217.2	293.2	187.2	156.2
87.5°	68.5	96.3	162.6	86.7	59.9	35.3	57.8	57.8	49.2	42.8
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°
2914.6	0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2899.6	2.5°	2925.3	2946.7	2983.1	3017.3	3044.1	3069.8	3095.5	3109.4	3113.6	3130.8
2915.7	5°	2959.6	2999.2	3069.8	3136.1	3177.8	3203.5	3221.7	3232.4	3234.5	3239.9
2959.6	7.5°	3022.7	3085.8	3184.3	3250.6	3281.6	3279.5	3272.0	3245.2	3234.5	3224.9
3023.8	10°	3111.5	3195.0	3315.9	3361.9	3342.6	3291.3	3224.9	3146.8	3110.4	3075.1
3111.5	12.5°	3221.7	3327.6	3446.4	3444.3	3349.0	3217.4	3063.4	2943.5	2867.5	2813.0
3219.6	15°	3355.5	3477.4	3568.4	3495.6	3287.0	3050.5	2824.7	2668.5	2600.1	2540.1
3328.7	17.5°	3493.5	3624.0	3665.8	3479.6	3130.8	2803.3	2547.6	2424.6	2357.2	2325.1
3446.4	20°	3628.3	3757.8	3723.5	3387.6	2893.2	2523.0	2295.1	2227.7	2213.8	2221.3
3560.9	22.5°	3770.6	3886.2	3735.3	3209.9	2590.4	2236.3	2111.1	2113.2	2144.2	2166.7
3680.7	25°	3916.1	3994.2	3704.3	2953.1	2265.1	2025.5	1994.4	2028.7	2089.7	2133.5
3815.5	27.5°	4056.3	4090.5	3636.9	2635.4	1985.9	1874.6	1880.0	1950.6	2042.6	2103.6
3979.3	30°	4214.6	4176.1	3507.4	2278.0	1792.2	1745.1	1790.1	1872.5	1964.5	2019.1
4185.8	32.5°	4393.3	4250.0	3302.0	1947.4	1655.3	1641.3	1715.2	1768.7	1809.3	1825.4
4459.7	35°	4615.9	4353.7	3038.7	1715.2	1532.2	1565.4	1636.0	1609.2	1593.2	1584.6
4827.7	37.5°	4904.8	4493.9	2730.6	1564.3	1432.7	1510.8	1539.7	1456.2	1393.1	1362.1
5273.9	40°	5252.5	4699.4	2434.2	1447.7	1369.6	1463.7	1413.4	1312.9	1232.6	1188.7
5775.8	42.5°	5638.8	4914.4	2184.9	1359.9	1334.3	1425.2	1320.4	1200.5	1071.0	1057.1
6373.9	45°	6044.3	5135.9	2014.8	1292.5	1317.1	1392.0	1266.9	1073.2	981.2	1037.9
6974.1	47.5°	6449.8	5339.2	1912.1	1242.2	1308.6	1354.6	1219.8	1002.6	937.3	1019.7
7617.2	50°	6901.4	5521.1	1866.0	1205.9	1299.0	1339.6	1149.2	984.4	891.3	945.9
8282.7	52.5°	7349.7	5662.3	1831.8	1169.5	1285.0	1327.8	1114.9	963.0	835.7	838.9
8952.5	55°	7796.9	5754.4	1794.4	1121.3	1254.0	1302.2	1111.7	939.4	793.9	778.9
9660.8	57.5°	8274.2	5806.8	1748.3	1067.8	1200.5	1236.9	1108.5	921.3	781.1	756.5
10385.2	60°	8759.9	5883.8	1688.4	1002.6	1128.8	1158.8	1101.0	914.8	773.6	731.9
11067.9	62.5°	9195.4	5910.6	1616.7	940.5	1036.8	1081.7	1085.0	909.5	753.3	681.6
11635.0	65°	9481.1	5795.0	1491.6	869.9	937.3	1002.6	1053.9	891.3	716.9	645.2
11915.3	67.5°	9469.3	5465.5	1295.7	778.9	841.0	914.8	1009.0	860.3	673.0	600.3
11703.4	70°	9028.5	4814.9	1047.5	673.0	735.1	820.7	951.2	814.3	620.6	551.0
10406.6	72.5°	7743.4	3768.5	760.8	548.9	612.0	723.3	876.3	758.6	567.1	507.2
7691.0	75°	5531.8	2385.0	515.7	421.6	476.1	613.1	783.2	693.3	517.9	509.3
3851.9	77.5°	2825.8	1139.5	341.3	308.2	331.7	483.6	658.0	619.5	525.4	420.5
1095.7	80°	919.1	420.5	215.1	209.7	220.4	322.1	509.3	508.2	398.0	285.7
265.4	82.5°	293.2	180.8	140.2	134.8	129.5	202.2	355.2	402.3	268.6	180.8
95.2	85°	116.6	108.1	82.4	76.0	54.6	95.2	186.2	267.5	200.1	130.5
24.6	87.5°	42.8	42.8	22.5	16.0	11.8	32.1	50.3	80.2	114.5	67.4
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>
2914.6
3140.4
3248.5
3227.1
3064.4
2800.1
2533.7
2334.7
2218.1
2172.1
2145.3
2118.6
2031.9
1833.9
1593.2
1369.6
1192.0
1071.0
1067.8
1058.2
986.5
861.3
789.6
759.7
735.1
681.6
645.2
603.5
557.5
504.0
480.4
374.5
252.5
179.8
133.7
66.3
0.0

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