

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: P954552

Luminaire Tested: **GALN-SB7D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72227 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

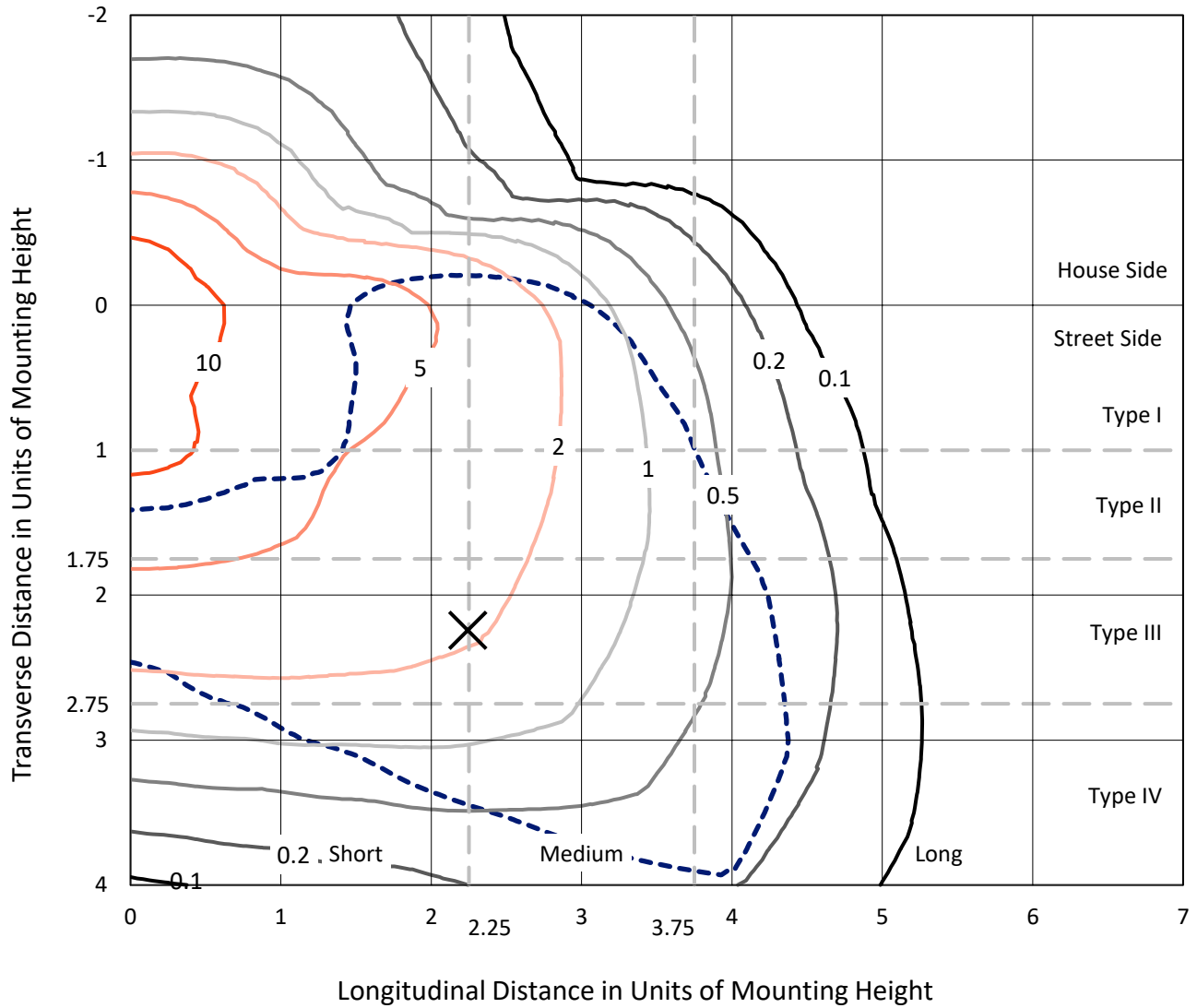
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

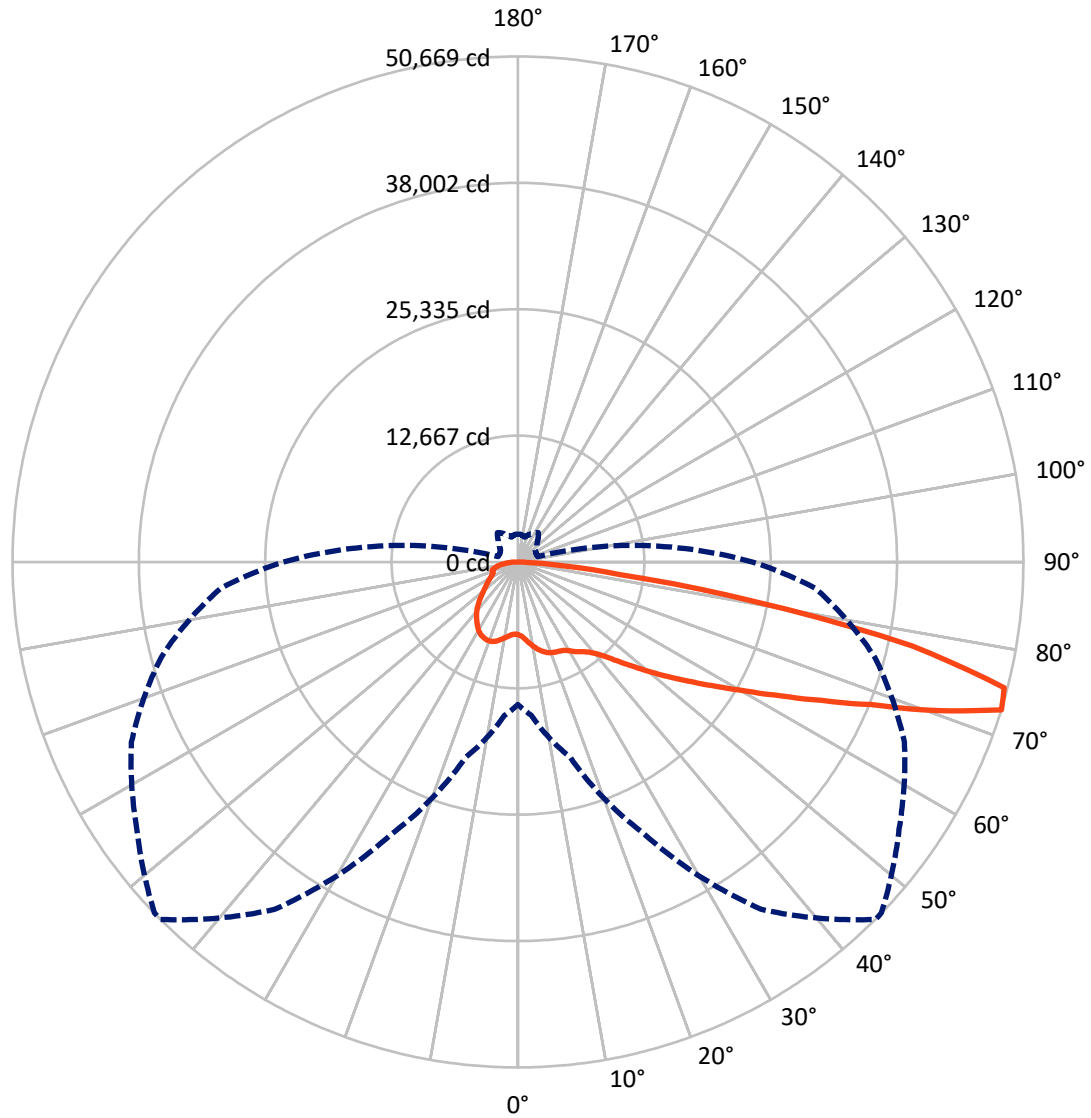
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16328.0	0.0	16328.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	55899.0	0.0	55899.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	72227.0	0.0	72227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.6	1.0
10°-20°	2472.6	3.4
20°-30°	4301.2	6.0
30°-40°	6166.0	8.5
40°-50°	8682.1	12.0
50°-60°	13298.5	18.4
60°-70°	19264.8	26.7
70°-80°	15384.1	21.3
80°-90°	1916.0	2.7
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°	72227.0	100.0
0°-180°	72227.0	100.0

Coefficient of Utilization



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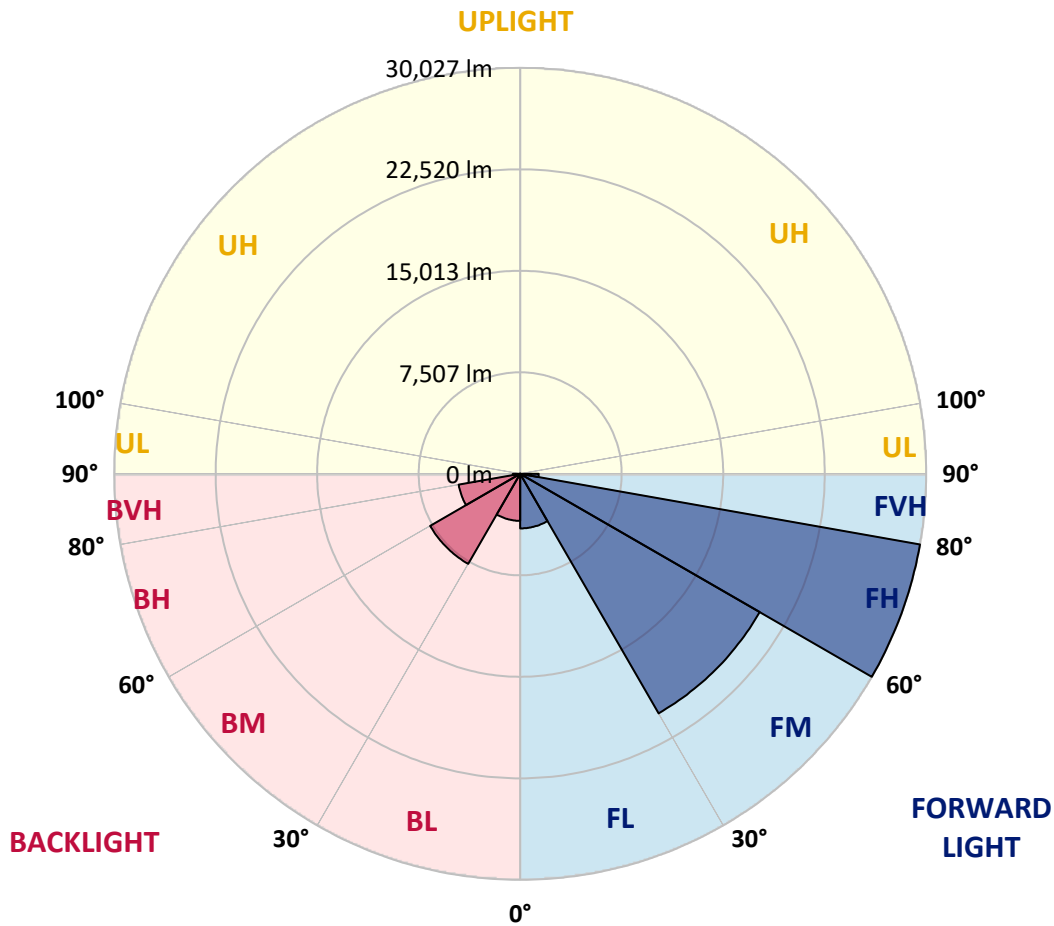
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4039.0	5.6			
FM (30°-60°)	20458.4	28.3			
FH (60°-80°)	30026.9	41.6			G5
FVH (80°-90°)	1374.6	1.9			G5
BL (0°-30°)	3476.4	4.8	B4/5000		
BM (30°-60°)	7688.2	10.6	B4/8500		
BH (60°-80°)	4622.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	541.4	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3
2.5°	7571.7	7621.1	7575.5	7533.6	7514.6	7465.1	7461.3	7430.9	7411.9	7358.6
5°	8100.5	8165.2	8089.1	8005.4	7929.3	7807.6	7792.3	7704.8	7605.9	7491.8
7.5°	8697.9	8755.0	8667.5	8541.9	8408.7	8207.1	8203.3	8043.5	7887.5	7693.4
10°	9219.2	9295.3	9177.3	9006.1	8838.7	8610.4	8583.8	8401.1	8203.3	7952.1
12.5°	9679.6	9732.8	9618.7	9409.4	9215.4	8987.1	8952.8	8751.2	8530.5	8245.1
15°	10044.8	10113.3	9961.1	9736.6	9531.2	9306.7	9276.2	9093.6	8872.9	8572.3
17.5°	10284.5	10341.6	10185.6	9934.5	9736.6	9550.2	9527.4	9375.2	9181.1	8876.7
20°	10375.8	10436.7	10273.1	10018.2	9835.6	9691.0	9679.6	9569.2	9436.0	9158.3
22.5°	10467.2	10524.2	10311.2	10044.8	9885.0	9793.7	9789.9	9717.6	9664.3	9436.0
25°	10836.2	10851.4	10566.1	10181.8	9953.5	9873.6	9869.8	9866.0	9888.8	9710.0
27.5°	11155.8	11152.0	10908.5	10547.1	10193.2	10025.8	10022.0	10060.0	10132.3	9983.9
30°	11623.8	11582.0	11292.8	10916.1	10592.7	10334.0	10311.2	10276.9	10334.0	10216.0
32.5°	12616.9	12483.7	12015.7	11346.1	10923.7	10725.9	10695.4	10482.4	10505.2	10432.9
35°	14039.9	13864.9	13240.9	12160.3	11334.7	11053.1	11037.9	10767.7	10722.1	10657.4
37.5°	15733.1	15516.2	14789.5	13339.8	12042.4	11433.6	11410.8	11167.3	10980.8	10912.3
40°	17433.8	17159.9	16558.7	14778.1	13084.9	12069.0	11996.7	11627.6	11414.6	11300.4
42.5°	19085.2	18856.9	18343.2	16391.3	14370.9	12997.4	12837.6	12206.0	12046.2	11939.6
45°	20546.2	20340.8	19964.1	18114.9	15877.7	14260.6	14104.6	13073.5	13024.0	13024.0
47.5°	21733.3	21687.7	21288.2	19872.8	17654.5	15698.8	15428.7	14279.6	14412.8	14618.3
50°	23049.8	22924.3	22498.1	21604.0	19743.4	17346.3	17125.7	15759.7	16258.1	16821.3
52.5°	24259.8	24328.2	23852.6	23407.5	22102.4	19184.1	18796.0	17506.1	18582.9	19515.1
55°	25503.9	25507.8	25374.6	25313.7	24575.6	21215.9	20789.7	19606.4	21318.6	22475.3
57.5°	26672.0	26679.6	26877.5	27414.0	27444.4	23559.7	23076.4	22186.1	24358.7	25538.2
60°	27714.6	27767.8	28308.1	29563.7	29967.0	26245.9	25789.3	25233.8	27501.5	28688.6
62.5°	28064.6	28258.7	29461.0	31245.5	32459.2	29540.9	29091.9	28760.9	30804.1	31907.5
65°	27471.1	27916.2	30241.0	32634.2	35023.7	33456.1	33010.9	32649.5	34236.1	35274.8
67.5°	26013.8	26588.3	30195.3	34091.5	38136.1	38166.5	37751.8	36903.3	37915.4	38314.9
70°	22174.7	23034.6	27535.7	34635.6	41708.8	44608.1	44208.6	42024.6	41587.1	39654.2
72.5°	14287.2	15443.9	20276.1	30157.3	42504.0	50669.3	50646.4	46647.5	42747.6	37051.7
75°	5212.7	5920.4	9420.8	18929.2	35678.1	50361.1	50509.5	45856.1	39022.6	28620.1
77.5°	1898.6	2077.5	3074.3	7274.9	21942.6	40407.6	40715.8	36659.8	27775.4	14363.3
80°	996.9	1095.8	1575.2	2823.2	9401.8	23997.2	24480.4	21786.6	13054.5	4326.1
82.5°	551.7	597.4	882.7	1533.4	4234.8	10261.7	10550.9	8606.6	4592.5	1833.9
85°	296.8	315.8	414.7	837.1	2069.8	3557.5	3637.4	2572.1	1830.1	1076.8
87.5°	87.5	106.5	137.0	266.3	810.4	799.0	818.0	509.9	722.9	544.1
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°
7286.3	0°	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3	7286.3
7343.4	2.5°	7320.5	7309.1	7267.3	7248.2	7225.4	7221.6	7240.6	7244.4	7248.2	7252.1
7427.1	5°	7389.0	7351.0	7312.9	7290.1	7297.7	7301.5	7339.6	7366.2	7385.2	7400.4
7583.1	7.5°	7522.2	7491.8	7427.1	7423.3	7434.7	7468.9	7518.4	7579.3	7613.5	7640.2
7784.7	10°	7720.1	7663.0	7586.9	7598.3	7621.1	7670.6	7773.3	7822.8	7879.9	7929.3
8032.1	12.5°	7921.7	7872.2	7784.7	7792.3	7830.4	7917.9	8016.8	8077.7	8115.8	8153.8
8298.4	15°	8184.2	8096.7	8001.6	8001.6	8070.1	8165.2	8210.9	8260.3	8283.2	8325.0
8583.8	17.5°	8454.4	8340.2	8214.7	8207.1	8290.8	8336.4	8363.1	8370.7	8378.3	8424.0
8861.5	20°	8724.5	8599.0	8420.1	8404.9	8424.0	8416.3	8412.5	8404.9	8416.3	8473.4
9146.9	22.5°	8990.9	8846.3	8599.0	8530.5	8477.2	8404.9	8401.1	8397.3	8404.9	8462.0
9455.1	25°	9302.9	9127.8	8796.8	8591.4	8412.5	8313.6	8325.0	8328.8	8336.4	8382.1
9774.7	27.5°	9641.5	9447.5	8979.5	8572.3	8248.9	8180.4	8161.4	8172.8	8199.5	8271.8
10094.3	30°	9980.1	9751.8	9146.9	8496.2	8043.5	7948.3	7887.5	7914.1	7997.8	8070.1
10372.0	32.5°	10288.3	10060.0	9280.0	8328.8	7780.9	7632.5	7552.6	7586.9	7670.6	7697.2
10680.2	35°	10649.8	10391.1	9337.1	8062.5	7495.6	7267.3	7160.7	7111.3	7153.1	7126.5
11041.7	37.5°	11053.1	10783.0	9329.5	7712.4	7160.7	6898.2	6749.8	6563.4	6475.9	6384.5
11574.4	40°	11650.5	11262.4	9238.2	7290.1	6746.0	6506.3	6240.0	5924.2	5726.3	5547.5
12434.3	42.5°	12464.7	11928.2	9070.8	6825.9	6278.0	6053.5	5692.1	5323.0	5011.0	4714.2
13739.3	45°	13678.5	12799.5	8861.5	6331.3	5772.0	5551.3	5159.4	4744.7	4390.8	4010.3
15592.3	47.5°	15428.7	13971.4	8663.7	5768.2	5239.3	5037.6	4683.8	4299.5	3881.0	3511.9
18270.9	50°	17833.4	15653.2	8481.0	5220.3	4714.2	4562.0	4280.5	3888.6	3466.2	3169.4
21409.9	52.5°	20892.5	17939.9	8404.9	4691.4	4223.4	4166.3	3941.8	3576.6	3177.1	2925.9
25070.2	55°	24404.3	20675.6	8404.9	4185.3	3793.4	3812.5	3656.5	3317.8	2971.6	2747.1
28844.6	57.5°	27988.5	23445.5	8252.7	3717.3	3428.2	3508.1	3409.2	3112.4	2800.4	2568.3
32813.1	60°	31291.1	25766.5	7636.3	3291.2	3104.8	3230.3	3165.6	2910.7	2530.2	2336.2
36130.9	62.5°	33829.0	27075.4	6449.2	2952.6	2838.4	2983.0	2948.8	2644.4	2480.8	2400.9
38855.2	65°	35099.8	26862.3	4931.1	2652.0	2613.9	2838.4	2766.1	2754.7	2625.4	2534.0
39741.7	67.5°	34319.8	25028.3	3576.6	2431.3	2484.6	2705.3	2983.0	3028.7	2789.0	2610.1
37245.7	70°	30899.2	21710.5	2663.4	2222.0	2321.0	2709.1	3401.5	3169.4	2735.7	2526.4
29871.9	72.5°	23506.4	16189.7	2066.0	2001.4	2107.9	2728.1	3588.0	3104.8	2583.5	2792.8
18609.5	75°	13442.6	8888.1	1658.9	1731.2	1841.6	2549.3	3492.9	2937.3	2465.5	2564.5
7373.8	77.5°	5125.1	3416.8	1369.7	1464.9	1480.1	2225.8	3340.7	2925.9	2347.6	2290.5
2210.6	80°	1776.9	1335.5	1133.8	1164.3	1145.3	1978.5	3203.7	2545.4	1921.5	1719.8
913.2	82.5°	726.7	665.8	897.9	859.9	814.2	1537.2	2587.3	2081.3	1571.4	1388.8
441.4	85°	315.8	422.3	593.6	521.3	471.8	1065.4	2073.6	1761.6	1327.9	1145.3
144.6	87.5°	64.7	159.8	251.1	235.9	243.5	711.5	1472.5	1251.8	939.8	703.9
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>
7286.3
7267.3
7408.1
7647.8
7917.9
8169.0
8340.2
8439.2
8496.2
8500.0
8443.0
8344.0
8150.0
7792.3
7210.2
6441.6
5558.9
4687.6
3964.7
3470.0
3150.4
2906.9
2724.3
2530.2
2305.7
2374.2
2503.6
2579.7
2492.2
2769.9
2564.5
2088.9
1662.7
1373.6
1141.5
551.7
0.0

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