

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: P943845

Luminaire Tested: **GALN-SB8C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60004 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

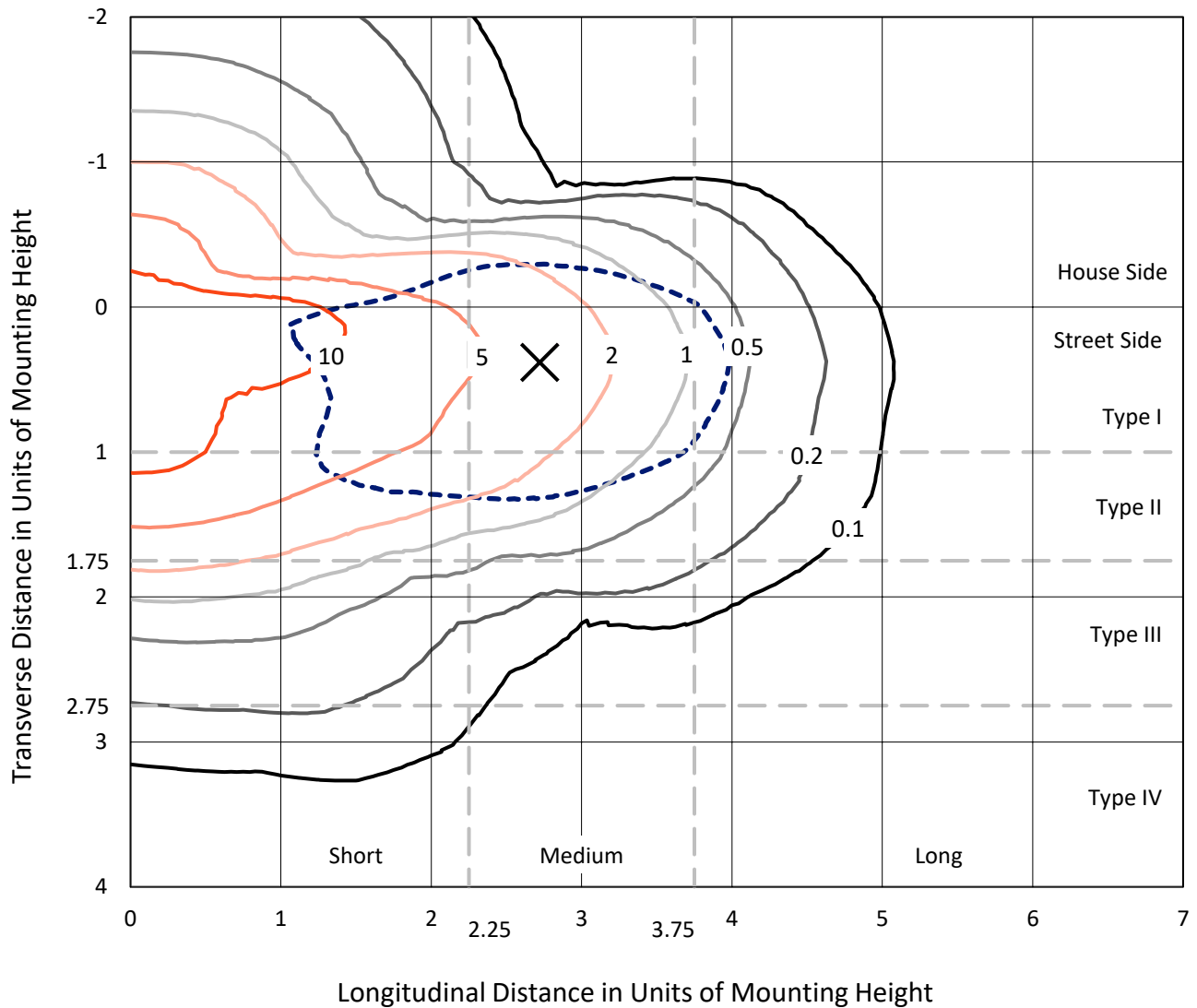
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

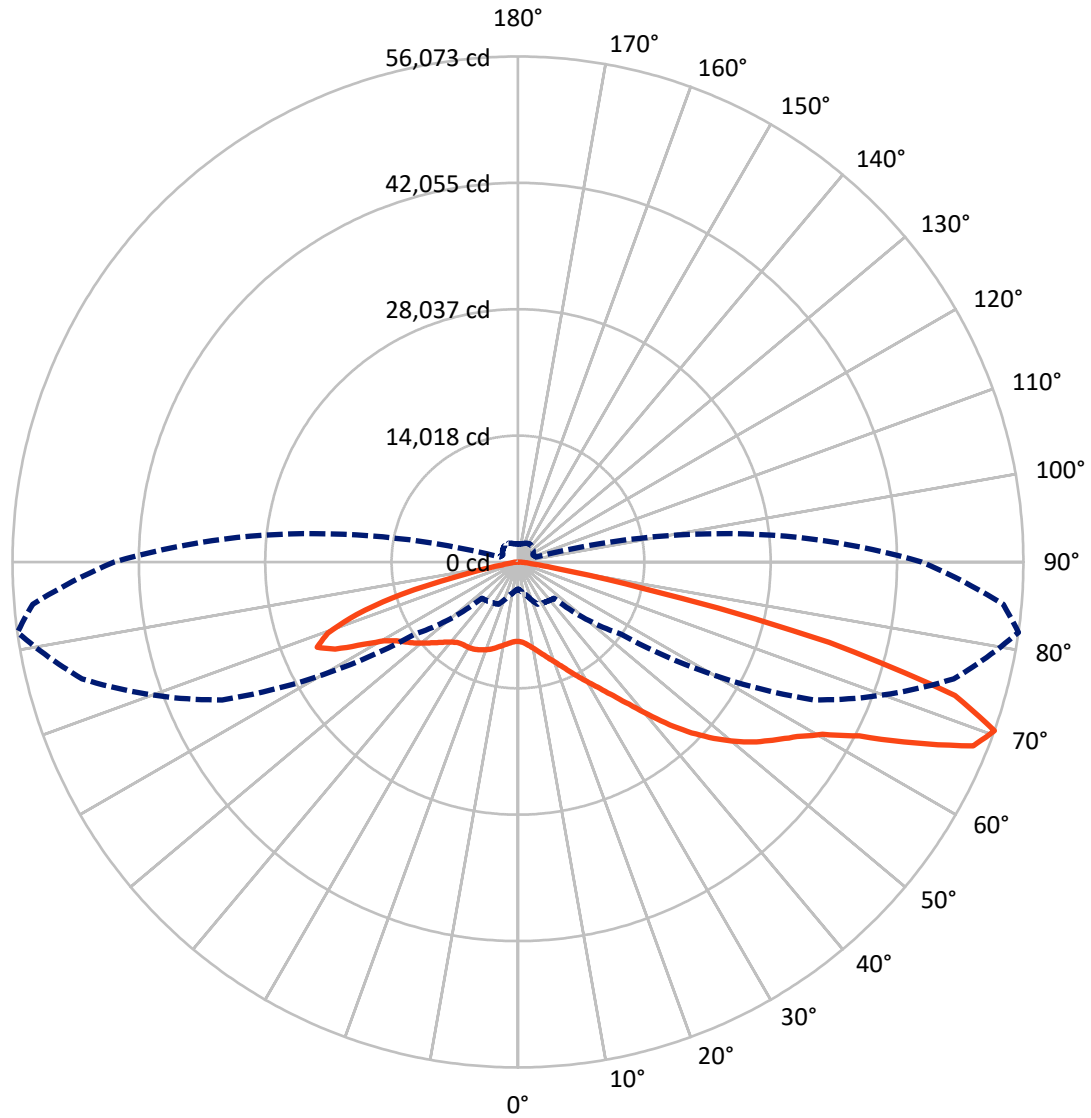
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14792.5	0.0	14792.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	45211.5	0.0	45211.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	60004.0	0.0	60004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.6	1.4
10°-20°	2386.4	4.0
20°-30°	3992.3	6.7
30°-40°	6236.9	10.4
40°-50°	9933.1	16.6
50°-60°	13823.1	23.0
60°-70°	14459.5	24.1
70°-80°	7557.3	12.6
80°-90°	784.7	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°	60004.0	100.0
0°-180°	60004.0	100.0

Coefficient of Utilization



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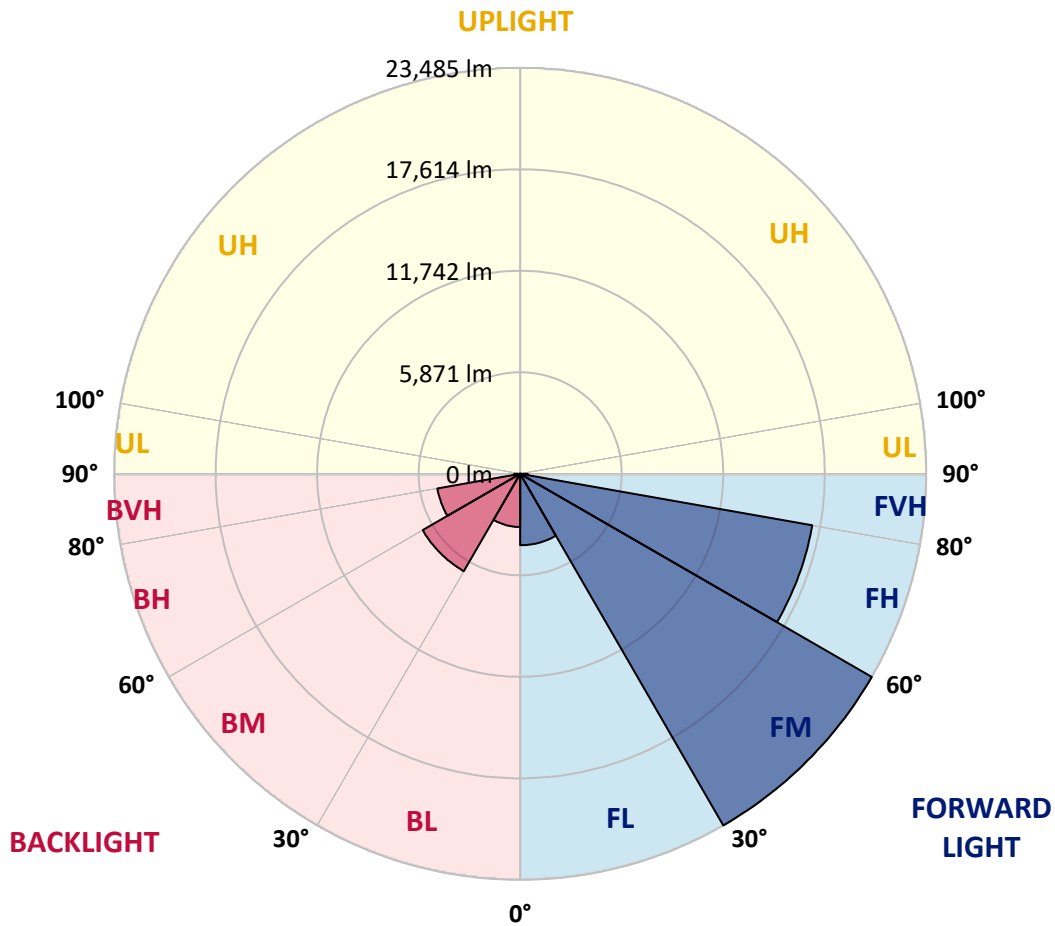
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4131.9	6.9			
FM (30°-60°)	23485.0	39.1			
FH (60°-80°)	17155.3	28.6			G5
FVH (80°-90°)	439.3	0.7			G3/500
BL (0°-30°)	3077.4	5.1	B4/5000		
BM (30°-60°)	6508.1	10.8	B4/8500		
BH (60°-80°)	4861.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	345.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3
2.5°	9007.5	9058.4	9042.5	9026.6	9026.6	9004.3	9001.1	8969.3	8943.8	8902.4
5°	9122.1	9176.2	9169.9	9182.6	9224.0	9233.5	9243.1	9224.0	9173.0	9122.1
7.5°	9020.2	9080.7	9099.8	9176.2	9303.6	9418.2	9504.2	9539.2	9491.4	9418.2
10°	8676.3	8743.2	8810.1	8991.6	9217.6	9488.3	9717.5	9854.4	9844.9	9774.8
12.5°	7979.1	8049.1	8192.4	8545.8	8959.7	9437.3	9864.0	10150.5	10249.2	10198.3
15°	7421.9	7482.4	7590.6	7953.6	8491.7	9217.6	9918.1	10475.3	10726.8	10698.2
17.5°	7405.9	7431.4	7498.3	7670.2	8084.1	8873.8	9860.8	10793.7	11274.5	11271.3
20°	7686.1	7695.7	7733.9	7768.9	8004.5	8612.7	9714.3	11058.0	11889.0	11889.0
22.5°	8074.6	8068.2	8106.4	8074.6	8189.2	8590.4	9622.0	11290.4	12573.5	12624.5
25°	8657.2	8625.4	8615.8	8542.6	8564.9	8797.3	9723.9	11554.7	13385.5	13490.5
27.5°	9434.1	9383.2	9348.2	9179.4	9122.1	9224.0	10035.9	11873.1	14289.7	14471.2
30°	10446.6	10354.3	10303.4	10010.4	9803.5	9819.4	10507.1	12296.5	15235.3	15528.3
32.5°	11828.5	11685.2	11548.3	11067.5	10688.6	10564.4	11115.3	12882.4	16260.6	16728.6
35°	13375.9	13261.3	13114.8	12372.9	11790.3	11503.7	11936.7	13700.7	17460.9	18202.8
37.5°	14866.0	14767.3	14837.3	13837.6	13086.2	12669.1	13012.9	14799.1	18941.5	20036.8
40°	16407.0	16330.6	16340.2	15385.0	14509.4	14041.4	14318.4	16177.8	20638.6	22217.8
42.5°	18081.8	18024.5	17833.5	16986.5	16002.7	15566.5	15821.2	17769.8	22459.8	24701.3
45°	19957.2	19922.2	19743.9	18772.7	17645.6	17155.3	17499.2	19527.3	24290.6	27038.4
47.5°	21577.8	21606.5	21584.2	20765.9	19597.4	18877.8	19288.6	21361.3	25994.0	29235.3
50°	22357.9	22507.6	22727.2	22472.5	21746.6	21014.3	21093.9	23131.6	27617.8	31295.3
52.5°	21950.4	22233.7	22832.3	23239.9	23520.1	23367.2	23153.9	24889.2	29146.2	33154.8
55°	20431.6	20829.6	21823.0	22806.8	24236.5	25347.7	25627.9	26837.8	30636.3	34791.3
57.5°	17664.7	18311.1	19202.6	21192.6	23599.7	26306.0	28512.5	29541.0	32215.5	36539.4
60°	12920.6	13786.6	14894.7	17855.8	21370.9	25793.4	30967.4	33692.9	34460.2	38803.2
62.5°	8268.8	8803.7	9822.6	12611.7	16652.2	23166.6	31718.8	38882.8	38265.1	42515.7
65°	5661.1	6005.0	6937.9	8504.4	10765.0	17244.4	29706.5	42773.6	44308.3	48399.7
67.5°	4113.7	4374.8	5170.8	6543.1	7014.3	10204.7	23052.0	42595.3	50182.7	54462.0
70°	2999.3	3184.0	3852.6	5170.8	5396.8	5677.0	13964.9	36208.2	50055.3	56073.1
72.5°	2222.4	2349.8	2798.7	4011.8	4368.4	3833.5	6912.4	26315.6	43012.4	50717.6
75°	1607.9	1703.4	2034.6	3069.4	3496.0	2919.7	3448.3	15378.6	30002.6	35676.5
77.5°	1229.0	1302.2	1518.8	2247.9	2798.7	2190.6	2139.6	7074.8	14226.0	14296.1
80°	987.0	1034.8	1152.6	1582.4	2146.0	1639.7	1394.6	2856.0	4495.8	3804.9
82.5°	725.9	805.5	974.3	1111.2	1534.7	1130.3	850.1	1442.3	1709.8	1471.0
85°	413.9	468.0	589.0	796.0	980.7	690.9	487.1	640.0	796.0	652.7
87.5°	146.5	191.0	207.0	312.0	426.7	286.6	187.9	184.7	261.1	194.2
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°
8797.3	0°	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3	8797.3
8892.9	2.5°	8861.0	8845.1	8781.4	8695.4	8606.3	8520.3	8491.7	8431.2	8389.8	8367.5
9099.8	5°	9039.3	8988.4	8838.7	8647.7	8447.1	8230.6	8077.8	7937.7	7835.8	7740.3
9383.2	7.5°	9294.0	9204.9	8947.0	8612.7	8256.1	7896.3	7628.8	7425.0	7288.1	7199.0
9714.3	10°	9590.1	9453.2	9058.4	8558.5	8007.7	7491.9	7176.7	7001.6	6915.6	6867.8
10093.2	12.5°	9930.8	9736.6	9173.0	8434.4	7628.8	7039.8	6823.3	6772.3	6775.5	6778.7
10570.8	15°	10351.1	10080.5	9265.4	8163.7	7135.3	6692.7	6654.5	6737.3	6823.3	6864.7
11112.1	17.5°	10825.5	10443.5	9281.3	7718.0	6651.3	6469.8	6590.8	6769.1	6899.7	6957.0
11717.0	20°	11335.0	10812.8	9166.7	7087.5	6253.3	6288.4	6504.9	6734.1	6877.4	6950.6
12408.0	22.5°	11917.6	11207.6	8892.9	6425.3	5928.6	6091.0	6345.7	6568.6	6718.2	6791.4
13219.9	25°	12583.1	11650.2	8463.0	5868.1	5648.4	5868.1	6122.8	6307.5	6428.5	6495.3
14127.3	27.5°	13321.8	12111.9	7889.9	5425.5	5403.2	5638.8	5849.0	5992.3	6055.9	6106.9
15092.1	30°	14063.6	12532.1	7195.8	5091.2	5189.9	5412.8	5562.4	5626.1	5645.2	5654.7
16168.3	32.5°	14866.0	12895.1	6466.7	4814.2	4986.1	5193.1	5282.2	5310.9	5221.7	5161.2
17473.7	35°	15837.1	13283.6	5753.5	4594.5	4785.5	4963.8	4992.5	4967.0	4861.9	4737.8
19110.2	37.5°	17037.5	13767.5	5183.5	4438.5	4597.7	4715.5	4680.5	4674.1	4683.6	4537.2
21077.9	40°	18508.5	14398.0	4766.4	4317.5	4444.8	4470.3	4371.6	4425.7	4473.5	4250.6
23236.7	42.5°	20141.9	15158.9	4502.1	4234.7	4317.5	4257.0	4104.2	4164.6	4158.3	3865.4
25405.0	45°	21807.1	15986.8	4409.8	4174.2	4199.7	4078.7	3909.9	3925.8	3792.1	3527.8
27484.1	47.5°	23462.7	16875.1	4467.1	4123.3	4053.2	3916.3	3785.8	3715.7	3518.3	3320.9
29477.3	50°	25086.6	17808.0	4677.3	4021.4	3852.6	3773.0	3677.5	3553.3	3343.2	3174.4
31362.2	52.5°	26592.6	18747.3	4912.9	3852.6	3601.1	3648.8	3588.3	3445.1	3238.1	3066.2
33145.2	55°	28019.0	19686.5	5005.2	3620.2	3365.5	3540.6	3505.6	3241.3	2992.9	2852.8
35011.0	57.5°	29572.8	20816.9	4903.3	3324.1	3174.4	3416.4	3282.7	2989.8	2846.5	2741.4
37440.4	60°	31725.2	22590.3	4683.6	2957.9	2992.9	3231.7	3002.5	2881.5	2725.5	2607.7
41082.9	62.5°	35300.8	25898.5	4330.2	2594.9	2779.6	2957.9	2868.8	2747.8	2588.6	2474.0
47310.8	65°	40586.2	30496.2	3664.8	2311.6	2540.8	2690.5	2725.5	2604.5	2438.9	2317.9
52768.1	67.5°	45043.8	33380.8	2773.2	2076.0	2295.6	2474.0	2572.7	2454.8	2279.7	2161.9
54044.9	70°	44798.6	31285.8	2117.3	1843.5	2079.1	2260.6	2388.0	2295.6	2107.8	1996.4
49090.6	72.5°	39790.2	26172.3	1713.0	1607.9	1859.4	2037.7	2190.6	2120.5	1929.5	1821.2
35963.1	75°	29232.1	18578.5	1369.1	1369.1	1585.6	1805.3	1974.1	1929.5	1754.4	1678.0
15098.4	77.5°	12322.0	7794.4	1073.0	1136.7	1318.2	1550.6	1760.7	1776.7	1623.8	1719.3
3992.7	80°	3276.3	2149.2	818.3	894.7	1034.8	1280.0	1531.5	1525.1	1359.6	1270.4
1483.7	82.5°	1248.1	846.9	582.7	630.4	748.2	980.7	1213.1	1251.3	1085.7	939.3
582.7	85°	480.8	363.0	359.8	378.9	436.2	649.5	917.0	948.8	818.3	694.1
162.4	87.5°	124.2	108.3	133.7	127.4	200.6	347.1	525.4	544.5	499.9	289.7
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>
8797.3
8393.0
7778.5
7218.1
6880.6
6785.1
6861.5
6969.7
6969.7
6810.5
6514.4
6126.0
5677.0
5180.3
4744.1
4546.7
4257.0
3862.2
3537.4
3320.9
3161.7
3069.4
2840.1
2731.9
2601.3
2474.0
2324.3
2165.1
2005.9
1821.2
1655.7
1560.2
1181.3
939.3
716.4
413.9
0.0

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