

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: P956709

Luminaire Tested: **GALN-SB9B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55270 lumens
Efficiency: N/A
Efficacy: 167.7 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

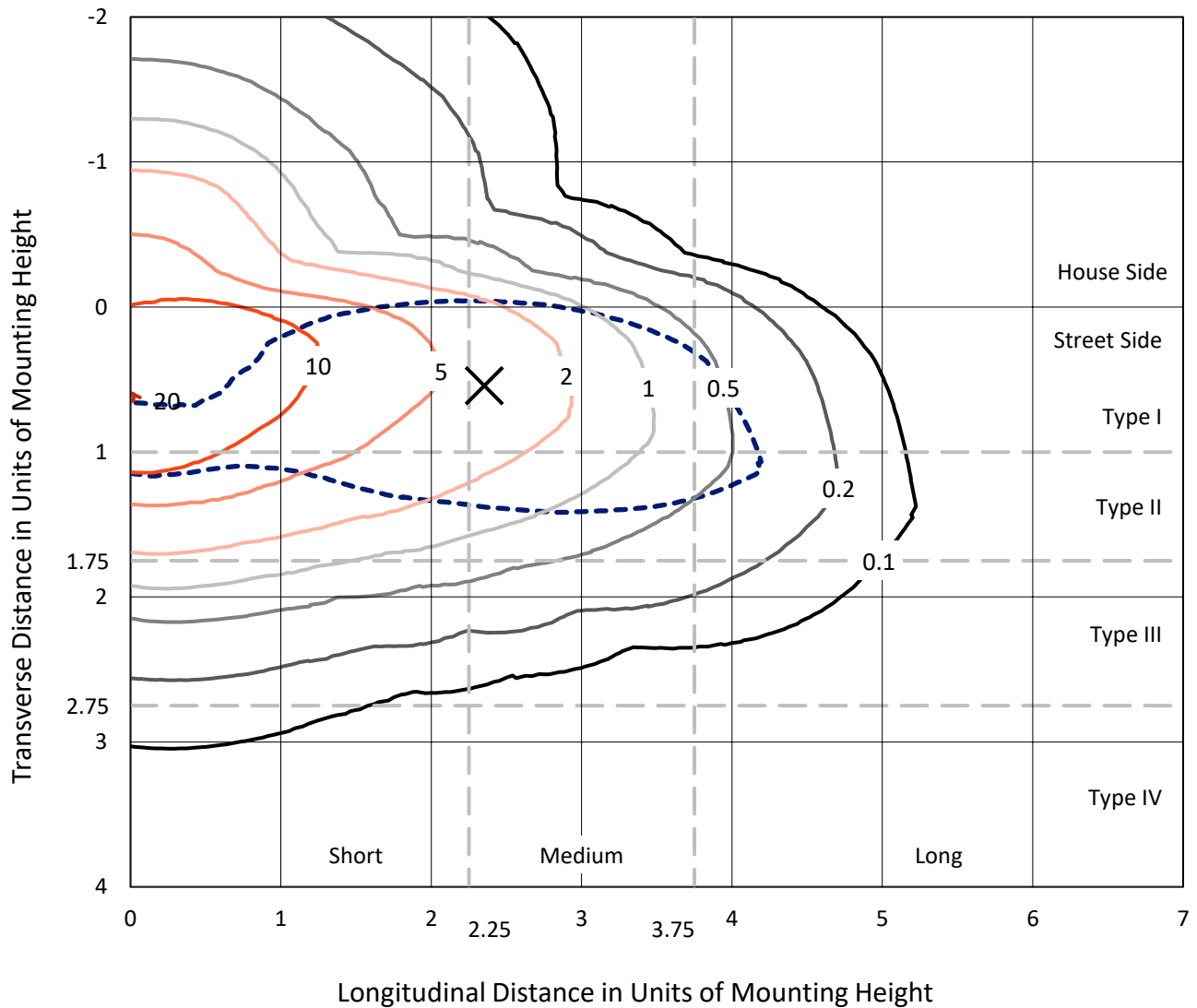
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

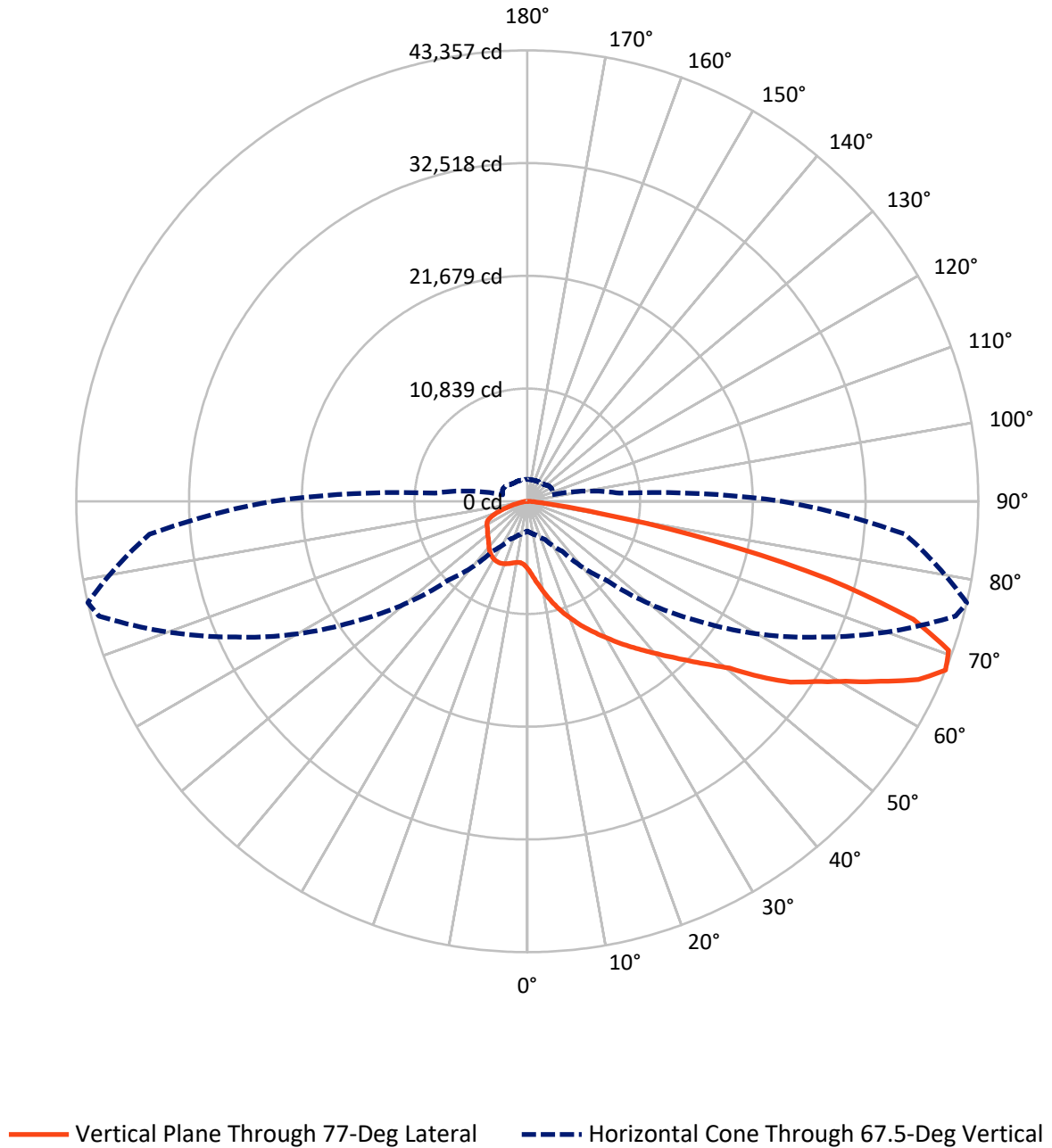
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10454.9	0.0	10454.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	44815.1	0.0	44815.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	55270.0	0.0	55270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.1	1.3
10°-20°	2497.2	4.5
20°-30°	4714.9	8.5
30°-40°	7595.7	13.7
40°-50°	10389.5	18.8
50°-60°	11719.4	21.2
60°-70°	10938.6	19.8
70°-80°	5996.2	10.8
80°-90°	723.3	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°	55270.0	100.0
0°-180°	55270.0	100.0

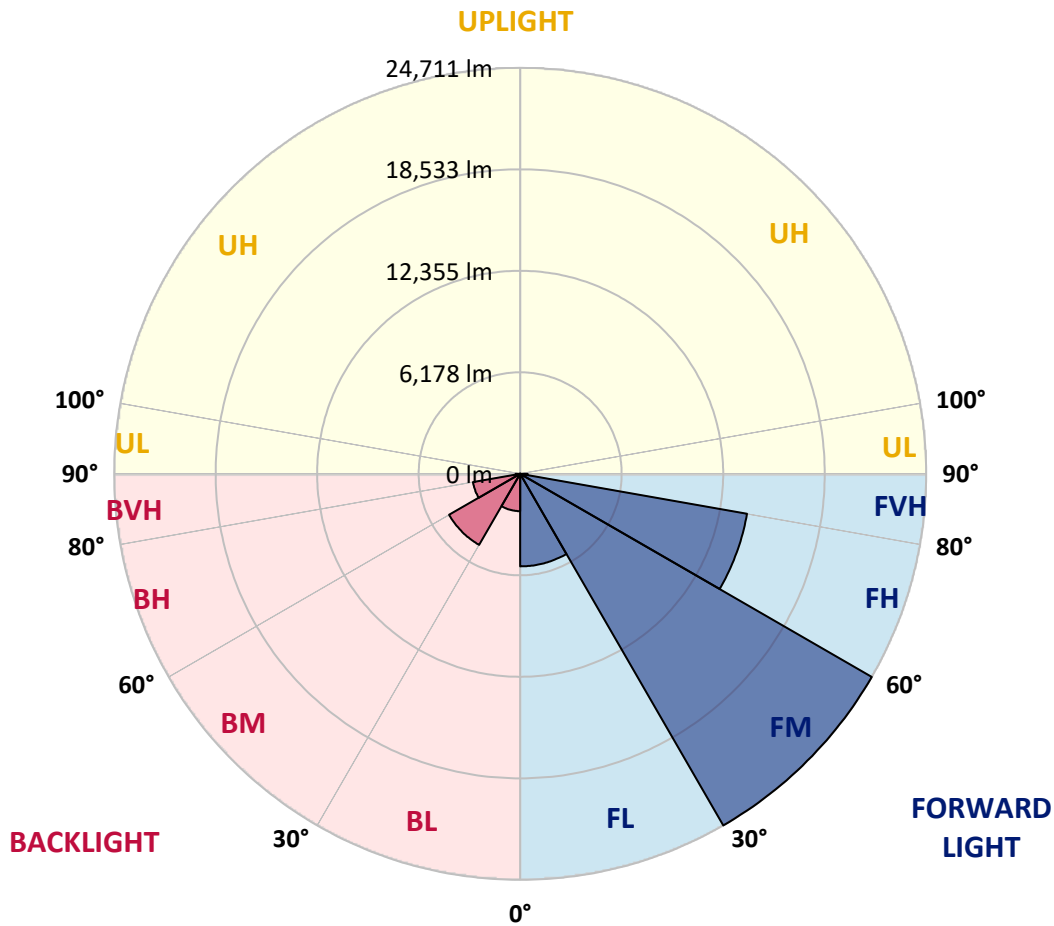


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5634.1	10.2			
FM (30°-60°)	24710.6	44.7			
FH (60°-80°)	14018.1	25.4			G5
FVH (80°-90°)	452.3	0.8			G3/500
BL (0°-30°)	2273.1	4.1	B3/2500		
BM (30°-60°)	4994.0	9.0	B3/5000		
BH (60°-80°)	2916.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	271.0	0.5			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°	77°
0°	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9
2.5°	8119.7	8176.7	8105.4	8105.4	7865.7	7740.2	7500.6	7318.0	6989.9	6932.8
5°	9597.5	9668.8	9569.0	9526.2	9243.7	8984.1	8581.8	8185.3	7600.4	7540.5
7.5°	10741.6	10832.9	10744.4	10698.8	10447.7	10156.7	9686.0	9132.5	8308.0	8191.0
10°	11674.5	11688.8	11660.2	11677.4	11480.5	11240.9	10758.7	10113.9	9084.0	8924.2
12.5°	12202.3	12267.9	12325.0	12427.7	12393.5	12245.1	11811.5	11041.1	9905.6	9700.2
15°	12450.5	12564.6	12693.0	12929.8	13121.0	13158.1	12827.1	12036.8	10741.6	10493.4
17.5°	12539.0	12647.4	12849.9	13192.3	13603.1	13879.9	13731.5	13004.0	11568.9	11283.6
20°	12986.9	13018.3	13141.0	13466.2	13911.3	14370.6	14481.9	13934.1	12387.8	12065.4
22.5°	13945.5	13882.7	13917.0	14065.3	14384.9	14829.9	15083.9	14755.8	13229.4	12858.5
25°	15528.9	15346.3	15163.7	14992.6	15155.2	15406.2	15694.4	15577.4	14111.0	13640.2
27.5°	17528.9	17306.3	16904.1	16342.0	16145.2	16233.6	16362.0	16339.2	14926.9	14450.5
30°	19497.5	19237.8	18758.5	17945.4	17426.2	17192.2	17095.2	17029.6	15814.2	15306.4
32.5°	21069.5	20864.1	20393.3	19483.2	18730.0	18330.6	18008.2	17774.2	16741.5	16233.6
35°	22444.6	22253.5	21714.2	20721.4	19902.6	19477.5	19055.2	18556.0	17705.8	17192.2
37.5°	23699.9	23508.8	22769.9	21737.1	20912.6	20618.7	20242.1	19394.8	18672.9	18187.9
40°	24493.1	24450.3	23759.9	22590.1	21734.2	21588.7	21463.2	20367.6	19745.7	19294.9
42.5°	24695.6	24789.8	24242.0	23280.5	22464.6	22347.6	22641.5	21468.9	20949.6	20518.8
45°	24207.8	24478.8	24119.3	23466.0	22983.8	22921.1	23685.7	22672.9	22282.0	21888.3
47.5°	22972.4	23431.8	23283.4	23192.1	23123.6	23394.7	24604.3	23951.0	23791.2	23448.9
50°	20478.9	21349.1	21608.7	22185.0	22846.9	23762.7	25440.3	25346.1	25554.4	25209.2
52.5°	16168.0	17366.3	18872.7	20316.3	21996.7	23640.0	26358.9	27348.9	28227.7	28039.4
55°	13346.4	13885.6	15043.9	17691.5	20347.7	23123.6	26772.6	28966.6	30881.0	30712.6
57.5°	11178.1	11660.2	12373.5	14584.6	17854.1	21951.0	27029.4	29953.7	32698.3	32681.2
60°	8852.9	9363.6	10093.9	11660.2	14941.2	19925.4	26972.3	31077.8	35017.8	35160.5
62.5°	6228.1	6790.2	7600.4	9061.2	11965.5	17300.6	25808.3	31890.9	37748.2	38136.2
65°	4094.1	4465.0	5075.5	6336.5	8915.7	13925.5	23585.8	31996.5	40669.6	41325.8
67.5°	2870.1	3012.8	3372.3	4057.0	5877.2	10678.8	20045.2	30903.8	42618.2	43357.2
70°	2239.6	2310.9	2493.5	2767.4	3691.8	7181.0	15360.6	28062.2	42201.7	42972.0
72.5°	1934.3	2002.8	2071.3	2105.5	2476.4	4433.6	10404.9	23463.1	38278.8	38800.9
75°	1754.6	1771.7	1828.8	1817.4	1888.7	2875.8	6005.6	17095.2	30201.9	30022.2
77.5°	1475.0	1497.8	1592.0	1577.7	1677.6	1965.7	3118.3	11032.6	19580.2	18359.1
80°	1249.6	1261.0	1363.7	1346.6	1457.9	1423.7	1592.0	5623.3	8305.1	7035.5
82.5°	433.7	536.4	1041.3	1072.7	1112.7	861.6	918.7	2293.8	2536.3	1942.9
85°	211.1	225.4	530.7	753.2	750.3	433.7	447.9	818.8	798.8	627.7
87.5°	34.2	42.8	62.8	293.9	233.9	114.1	154.1	159.8	165.5	142.7
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°
6484.9	0°	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9	6484.9
6716.0	2.5°	6556.2	6413.6	6114.0	5837.3	5620.4	5412.2	5295.2	5195.3	5138.3	5126.9
7029.8	5°	6733.1	6439.2	5894.3	5435.0	5135.4	4912.9	4795.9	4721.7	4684.6	4661.8
7452.1	7.5°	6987.0	6556.2	5780.2	5258.1	4944.3	4784.5	4724.6	4713.2	4710.3	4713.2
7962.7	10°	7337.9	6747.4	5768.8	5215.3	4952.8	4864.4	4861.5	4864.4	4875.8	4878.6
8519.1	12.5°	7717.4	6944.2	5814.4	5252.4	5061.2	5012.7	5004.2	5001.3	5009.9	5015.6
9081.1	15°	8131.1	7203.8	5891.5	5332.3	5181.1	5129.7	5121.2	5104.0	5101.2	5098.3
9671.7	17.5°	8556.2	7460.6	5977.1	5417.9	5258.1	5186.8	5155.4	5115.4	5084.1	5075.5
10282.2	20°	8987.0	7714.5	6037.0	5460.7	5263.8	5163.9	5101.2	5032.7	4978.5	4947.1
10898.5	22.5°	9446.3	7979.9	6074.1	5449.2	5212.4	5075.5	4961.4	4881.5	4798.8	4744.6
11520.4	25°	9894.2	8211.0	6071.2	5389.3	5112.6	4938.6	4793.1	4690.3	4576.2	4519.2
12162.4	27.5°	10325.0	8419.2	5999.9	5283.8	4969.9	4775.9	4601.9	4479.2	4368.0	4313.7
12810.0	30°	10770.1	8593.3	5888.6	5129.7	4801.6	4587.6	4396.5	4290.9	4191.1	4139.7
13494.7	32.5°	11212.3	8753.0	5731.7	4938.6	4607.6	4402.2	4213.9	4116.9	4057.0	4057.0
14230.8	35°	11680.2	8864.3	5523.4	4716.0	4402.2	4205.3	4057.0	3999.9	3994.2	3960.0
15009.7	37.5°	12173.8	8935.6	5269.5	4487.8	4199.6	4014.2	3968.5	3900.1	3843.0	3768.8
15865.6	40°	12693.0	9006.9	4964.2	4251.0	3985.7	3882.9	3863.0	3771.7	3609.1	3426.5
16835.6	42.5°	13323.5	9055.4	4647.6	4014.2	3760.3	3726.0	3754.6	3597.6	3338.0	3201.1
18005.3	45°	14053.9	9135.3	4356.5	3780.2	3529.2	3529.2	3649.0	3443.6	3229.6	3144.0
19340.5	47.5°	15001.1	9320.8	4085.5	3523.5	3315.2	3372.3	3415.1	3258.1	3138.3	3032.7
20966.8	50°	16370.6	9765.8	3805.9	3263.8	3152.6	3266.7	3206.8	3115.5	2975.7	2890.1
23551.6	52.5°	18071.0	10028.3	3557.7	3029.9	3012.8	3126.9	3041.3	2955.7	2850.2	2736.0
25511.6	55°	19229.3	10076.8	3349.4	2858.7	2918.6	2907.2	2875.8	2798.8	2741.7	2590.5
27445.9	57.5°	20524.5	10173.8	3178.3	2756.0	2858.7	2733.2	2721.8	2656.2	2582.0	2479.3
29805.4	60°	22073.7	10325.0	3029.9	2716.1	2807.4	2619.1	2562.0	2536.3	2462.1	2410.8
32644.1	62.5°	23762.7	10462.0	2878.7	2721.8	2747.4	2507.8	2422.2	2413.6	2368.0	2350.9
35308.8	65°	24915.3	10088.2	2690.4	2716.1	2653.3	2393.7	2285.3	2282.4	2245.3	2239.6
36464.3	67.5°	24513.0	8904.2	2436.5	2636.2	2556.3	2279.6	2159.7	2148.3	2099.8	2102.7
35257.5	70°	22498.8	7215.3	2085.5	2439.3	2436.5	2176.8	2028.5	1991.4	1925.8	1937.2
30655.6	72.5°	18721.4	5346.5	1614.8	2111.2	2245.3	2082.7	1877.3	1817.4	1734.6	1746.0
22630.1	75°	13520.4	3634.7	1175.4	1606.2	1954.3	1971.4	1728.9	1626.2	1526.4	1543.5
12596.0	77.5°	6918.5	2059.9	864.5	1107.0	1534.9	1791.7	1594.8	1457.9	1435.1	1594.8
3631.9	80°	2256.7	1032.8	599.1	776.0	1007.1	1466.4	1398.0	1241.1	1235.4	1272.4
761.8	82.5°	673.3	436.5	385.2	510.7	556.3	1124.1	1206.8	938.6	807.4	850.2
253.9	85°	231.1	211.1	219.7	253.9	265.3	659.0	844.5	622.0	587.7	647.6
57.1	87.5°	54.2	74.2	62.8	57.1	57.1	159.8	328.1	259.6	359.5	239.7
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>
6484.9
5126.9
4659.0
4721.7
4881.5
5018.4
5095.5
5084.1
4958.5
4747.4
4519.2
4310.9
4136.9
4059.8
3951.4
3757.4
3400.8
3203.9
3158.3
3029.9
2881.5
2713.2
2593.4
2445.0
2425.1
2350.9
2236.8
2102.7
1948.6
1743.2
1549.2
1572.0
1092.7
878.7
639.1
231.1
0.0

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