

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: P955722

Luminaire Tested: **GALN-SB8C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955722
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-SB8C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55424 lumens
Efficiency: N/A
Efficacy: 138.6 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

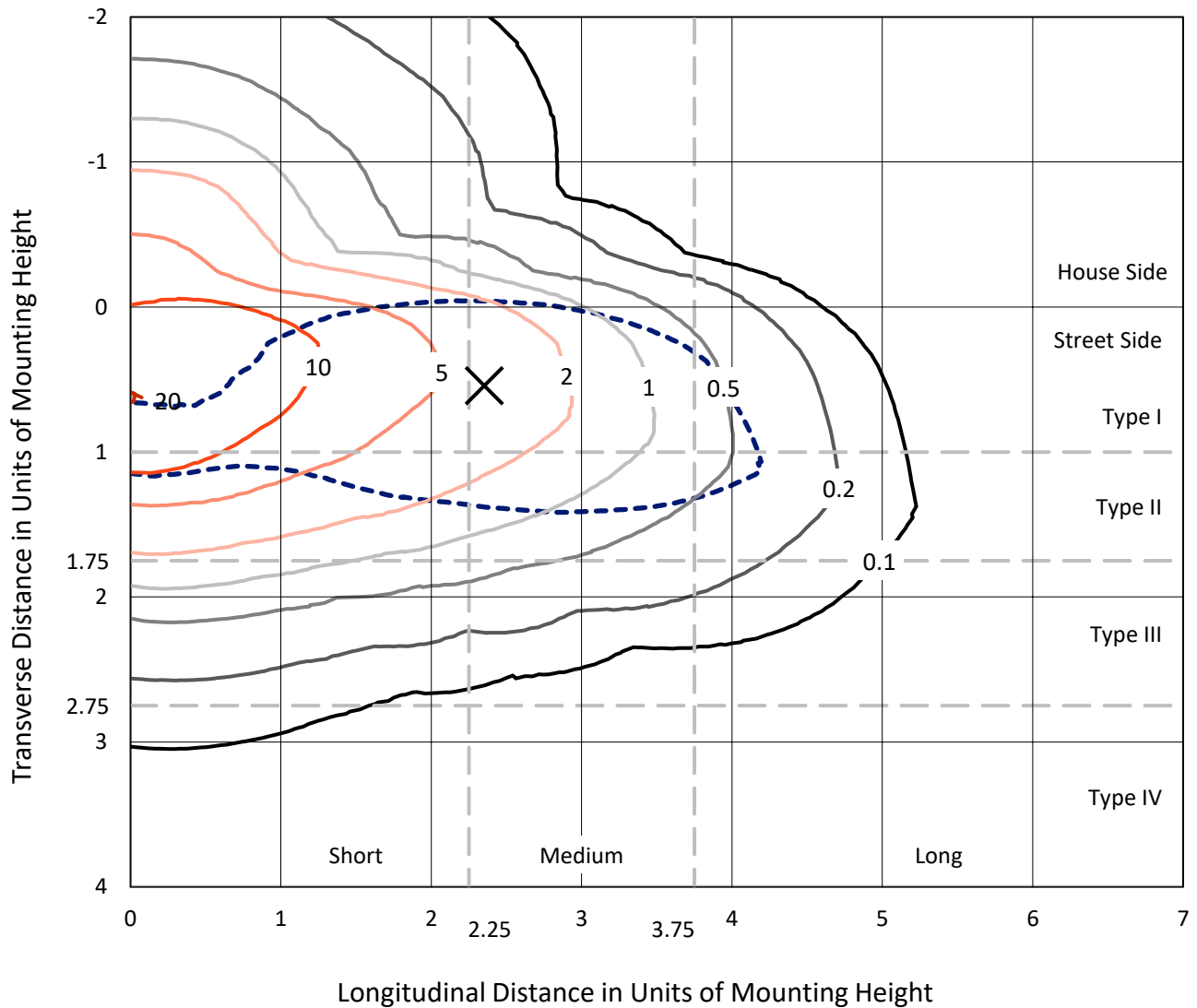
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

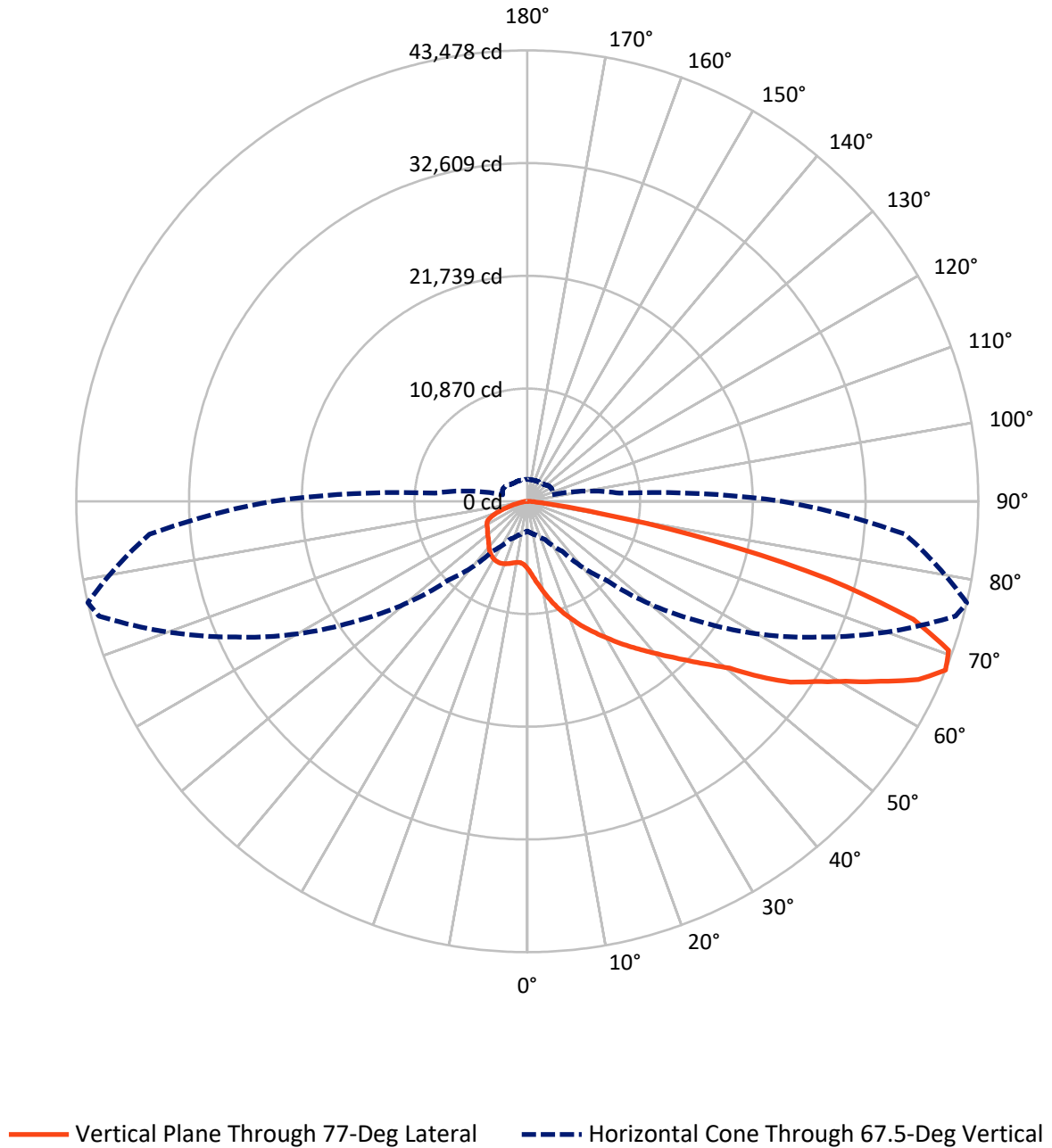
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	10484.0	0.0	10484.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	44940.0	0.0	44940.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	55424.0	0.0	55424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.0	1.3
10°-20°	2504.1	4.5
20°-30°	4728.1	8.5
30°-40°	7616.8	13.7
40°-50°	10418.5	18.8
50°-60°	11752.1	21.2
60°-70°	10969.1	19.8
70°-80°	6012.9	10.8
80°-90°	725.3	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°	55424.0	100.0
0°-180°	55424.0	100.0

Coefficient of Utilization



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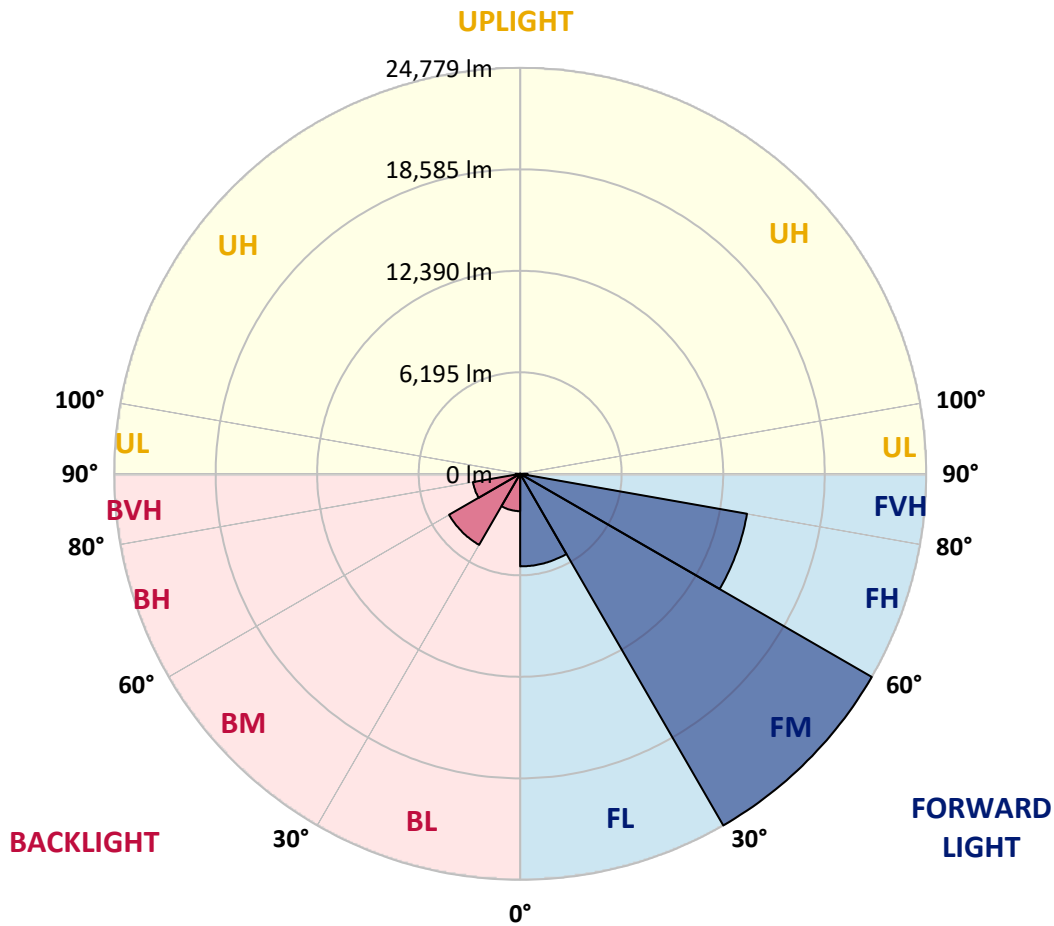
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5649.8	10.2			
FM (30°-60°)	24779.5	44.7			
FH (60°-80°)	14057.2	25.4			G5
FVH (80°-90°)	453.6	0.8			G3/500
BL (0°-30°)	2279.5	4.1	B3/2500		
BM (30°-60°)	5008.0	9.0	B4/8500		
BH (60°-80°)	2924.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	271.7	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°	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0
2.5°	8142.3	8199.5	8128.0	8128.0	7887.7	7761.8	7521.5	7338.4	7009.3	6952.1
5°	9624.3	9695.8	9595.7	9552.7	9269.5	9009.2	8605.8	8208.1	7621.6	7561.5
7.5°	10771.5	10863.1	10774.4	10728.6	10476.8	10185.0	9713.0	9157.9	8331.1	8213.8
10°	11707.0	11721.3	11692.7	11709.9	11512.5	11272.2	10788.7	10142.1	9109.3	8949.1
12.5°	12236.3	12302.1	12359.3	12462.3	12428.0	12279.2	11844.4	11071.9	9933.2	9727.3
15°	12485.2	12599.7	12728.4	12965.9	13157.5	13194.7	12862.9	12070.4	10771.5	10522.6
17.5°	12573.9	12682.6	12885.8	13229.1	13641.0	13918.6	13769.8	13040.2	11601.2	11315.1
20°	13023.1	13054.6	13177.6	13503.7	13950.0	14410.6	14522.2	13972.9	12422.3	12099.0
22.5°	13984.4	13921.4	13955.8	14104.5	14424.9	14871.3	15125.9	14796.9	13266.3	12894.3
25°	15572.2	15389.1	15206.0	15034.3	15197.4	15449.2	15738.1	15620.8	14150.3	13678.2
27.5°	17577.7	17354.6	16951.2	16387.6	16190.2	16278.8	16407.6	16384.7	14968.5	14490.8
30°	19551.8	19291.4	18810.8	17995.4	17474.7	17240.1	17142.9	17077.1	15858.3	15349.0
32.5°	21128.2	20922.2	20450.1	19537.5	18782.2	18381.7	18058.4	17823.8	16788.1	16278.8
35°	22507.2	22315.5	21774.7	20779.1	19958.0	19531.8	19108.3	18607.7	17755.1	17240.1
37.5°	23766.0	23574.3	22833.3	21797.6	20970.8	20676.1	20298.5	19448.8	18725.0	18238.6
40°	24561.3	24518.4	23826.1	22653.1	21794.8	21648.9	21523.0	20424.4	19800.7	19348.7
42.5°	24764.5	24858.9	24309.6	23345.4	22527.2	22409.9	22704.6	21528.7	21008.0	20576.0
45°	24275.2	24547.0	24186.5	23531.4	23047.9	22984.9	23751.7	22736.0	22344.1	21949.3
47.5°	23036.4	23497.0	23348.3	23256.7	23188.1	23459.9	24672.9	24017.7	23857.5	23514.2
50°	20536.0	21408.5	21668.9	22246.8	22910.6	23828.9	25511.2	25416.7	25625.6	25279.4
52.5°	16213.0	17414.7	18925.2	20372.9	22058.0	23705.9	26432.4	27425.1	28306.3	28117.5
55°	13383.6	13924.3	15085.8	17740.8	20404.4	23188.1	26847.2	29047.3	30967.0	30798.2
57.5°	11209.2	11692.7	12408.0	14625.2	17903.9	22012.2	27104.7	30037.2	32789.4	32772.3
60°	8877.6	9389.7	10122.1	11692.7	14982.8	19980.9	27047.5	31164.4	35115.4	35258.4
62.5°	6245.5	6809.1	7621.6	9086.4	11998.9	17348.8	25880.2	31979.8	37853.3	38242.4
65°	4105.5	4477.4	5089.6	6354.2	8940.5	13964.3	23651.5	32085.6	40783.0	41441.0
67.5°	2878.1	3021.2	3381.7	4068.3	5893.6	10708.6	20101.1	30989.9	42737.0	43478.0
70°	2245.9	2317.4	2500.5	2775.1	3702.1	7201.0	15403.4	28140.4	42319.3	43091.7
72.5°	1939.7	2008.4	2077.1	2111.4	2483.3	4445.9	10433.9	23528.5	38385.5	38909.0
75°	1759.5	1776.7	1833.9	1822.4	1894.0	2883.8	6022.3	17142.9	30286.1	30105.9
77.5°	1479.1	1502.0	1596.4	1582.1	1682.2	1971.2	3127.0	11063.3	19634.8	18410.3
80°	1253.1	1264.5	1367.5	1350.4	1461.9	1427.6	1596.4	5638.9	8328.2	7055.1
82.5°	434.9	537.9	1044.2	1075.7	1115.8	864.0	921.2	2300.2	2543.4	1948.3
85°	211.7	226.0	532.1	755.3	752.4	434.9	449.2	821.1	801.1	629.4
87.5°	34.3	42.9	62.9	294.7	234.6	114.4	154.5	160.2	165.9	143.0
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°
6503.0	0°	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0	6503.0
6734.7	2.5°	6574.5	6431.4	6131.0	5853.5	5636.1	5427.2	5309.9	5209.8	5152.6	5141.1
7049.4	5°	6751.9	6457.2	5910.7	5450.1	5149.7	4926.6	4809.3	4734.9	4697.7	4674.8
7472.8	7.5°	7006.5	6574.5	5796.3	5272.7	4958.0	4797.8	4737.7	4726.3	4723.4	4726.3
7984.9	10°	7358.4	6766.2	5784.9	5229.8	4966.6	4877.9	4875.1	4877.9	4889.4	4892.2
8542.8	12.5°	7738.9	6963.6	5830.6	5267.0	5075.3	5026.7	5018.1	5015.3	5023.8	5029.6
9106.4	15°	8153.7	7223.9	5907.9	5347.1	5195.5	5144.0	5135.4	5118.3	5115.4	5112.5
9698.6	17.5°	8580.0	7481.4	5993.7	5433.0	5272.7	5201.2	5169.8	5129.7	5098.2	5089.6
10310.9	20°	9012.0	7736.0	6053.8	5475.9	5278.5	5178.3	5115.4	5046.7	4992.4	4960.9
10928.9	22.5°	9472.6	8002.1	6091.0	5464.4	5227.0	5089.6	4975.2	4895.1	4812.1	4757.8
11552.5	25°	9921.8	8233.8	6088.1	5404.3	5126.8	4952.3	4806.4	4703.4	4589.0	4531.8
12196.3	27.5°	10353.8	8442.7	6016.6	5298.5	4983.8	4789.2	4614.7	4491.7	4380.1	4325.8
12845.7	30°	10800.1	8617.2	5905.0	5144.0	4815.0	4600.4	4408.7	4302.9	4202.7	4151.2
13532.3	32.5°	11243.6	8777.4	5747.7	4952.3	4620.4	4414.5	4225.6	4128.4	4068.3	4068.3
14270.5	35°	11712.8	8889.0	5538.8	4729.2	4414.5	4217.1	4068.3	4011.1	4005.3	3971.0
15051.5	37.5°	12207.7	8960.5	5284.2	4500.3	4211.3	4025.4	3979.6	3910.9	3853.7	3779.3
15909.8	40°	12728.4	9032.0	4978.1	4262.8	3996.8	3893.8	3873.7	3782.2	3619.1	3436.0
16882.5	42.5°	13360.7	9080.7	4660.5	4025.4	3770.7	3736.4	3765.0	3607.7	3347.3	3210.0
18055.5	45°	14093.1	9160.8	4368.7	3790.8	3539.0	3539.0	3659.2	3453.2	3238.6	3152.8
19394.4	47.5°	15042.9	9346.7	4096.9	3533.3	3324.4	3381.7	3424.6	3267.2	3147.1	3041.2
21025.2	50°	16416.2	9793.1	3816.5	3272.9	3161.4	3275.8	3215.7	3124.2	2984.0	2898.2
23617.2	52.5°	18121.3	10056.3	3567.6	3038.3	3021.2	3135.6	3049.8	2964.0	2858.1	2743.7
25582.7	55°	19282.9	10104.9	3358.8	2866.7	2926.8	2915.3	2883.8	2806.6	2749.4	2597.7
27522.4	57.5°	20581.7	10202.2	3187.1	2763.7	2866.7	2740.8	2729.4	2663.6	2589.2	2486.2
29888.4	60°	22135.2	10353.8	3038.3	2723.6	2815.2	2626.4	2569.1	2543.4	2469.0	2417.5
32735.1	62.5°	23828.9	10491.1	2886.7	2729.4	2755.1	2514.8	2429.0	2420.4	2374.6	2357.4
35407.2	65°	24984.7	10116.3	2697.9	2723.6	2660.7	2400.3	2291.6	2288.8	2251.6	2245.9
36565.9	67.5°	24581.3	8929.0	2443.3	2643.5	2563.4	2285.9	2165.7	2154.3	2105.7	2108.5
35355.7	70°	22561.5	7235.4	2091.4	2446.1	2443.3	2182.9	2034.1	1996.9	1931.1	1942.6
30741.0	72.5°	18773.6	5361.4	1619.3	2117.1	2251.6	2088.5	1882.5	1822.4	1739.5	1750.9
22693.1	75°	13558.1	3644.9	1178.7	1610.7	1959.8	1976.9	1733.7	1630.7	1530.6	1547.8
12631.1	77.5°	6937.8	2065.6	866.9	1110.1	1539.2	1796.7	1599.3	1461.9	1439.1	1599.3
3642.0	80°	2263.0	1035.7	600.8	778.2	1009.9	1470.5	1401.9	1244.5	1238.8	1276.0
763.9	82.5°	675.2	437.7	386.2	512.1	557.9	1127.2	1210.2	941.3	809.7	852.6
254.6	85°	231.7	211.7	220.3	254.6	266.1	660.9	846.8	623.7	589.4	649.4
57.2	87.5°	54.4	74.4	62.9	57.2	57.2	160.2	329.0	260.3	360.5	240.3
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>
6503.0
5141.1
4671.9
4734.9
4895.1
5032.4
5109.7
5098.2
4972.3
4760.6
4531.8
4322.9
4148.4
4071.1
3962.4
3767.9
3410.3
3212.9
3167.1
3038.3
2889.6
2720.8
2600.6
2451.8
2431.8
2357.4
2243.0
2108.5
1954.0
1748.0
1553.5
1576.4
1095.7
881.2
640.9
231.7
0.0

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