

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: P956690

Luminaire Tested: **GALN-SB9B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51977 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

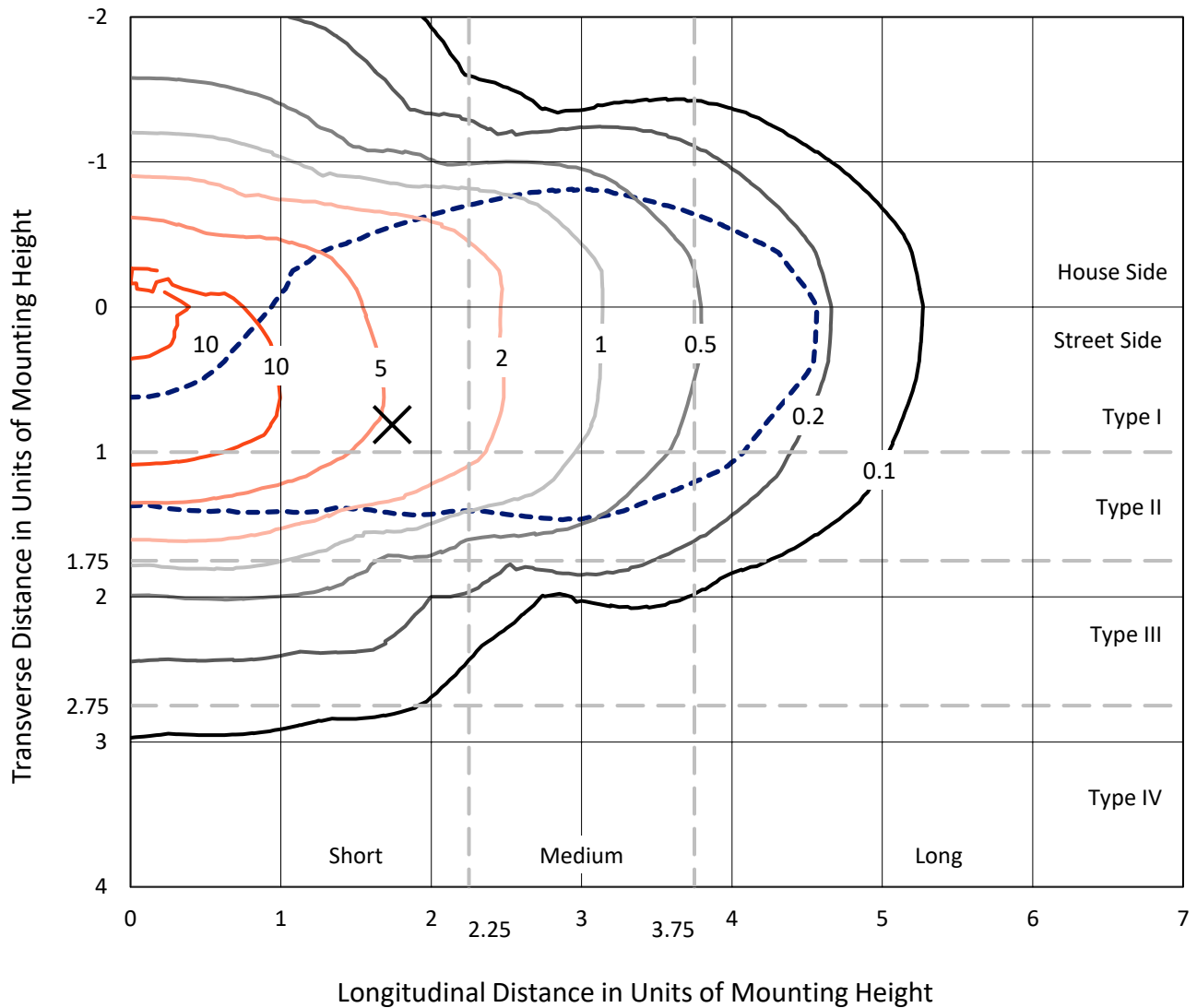
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

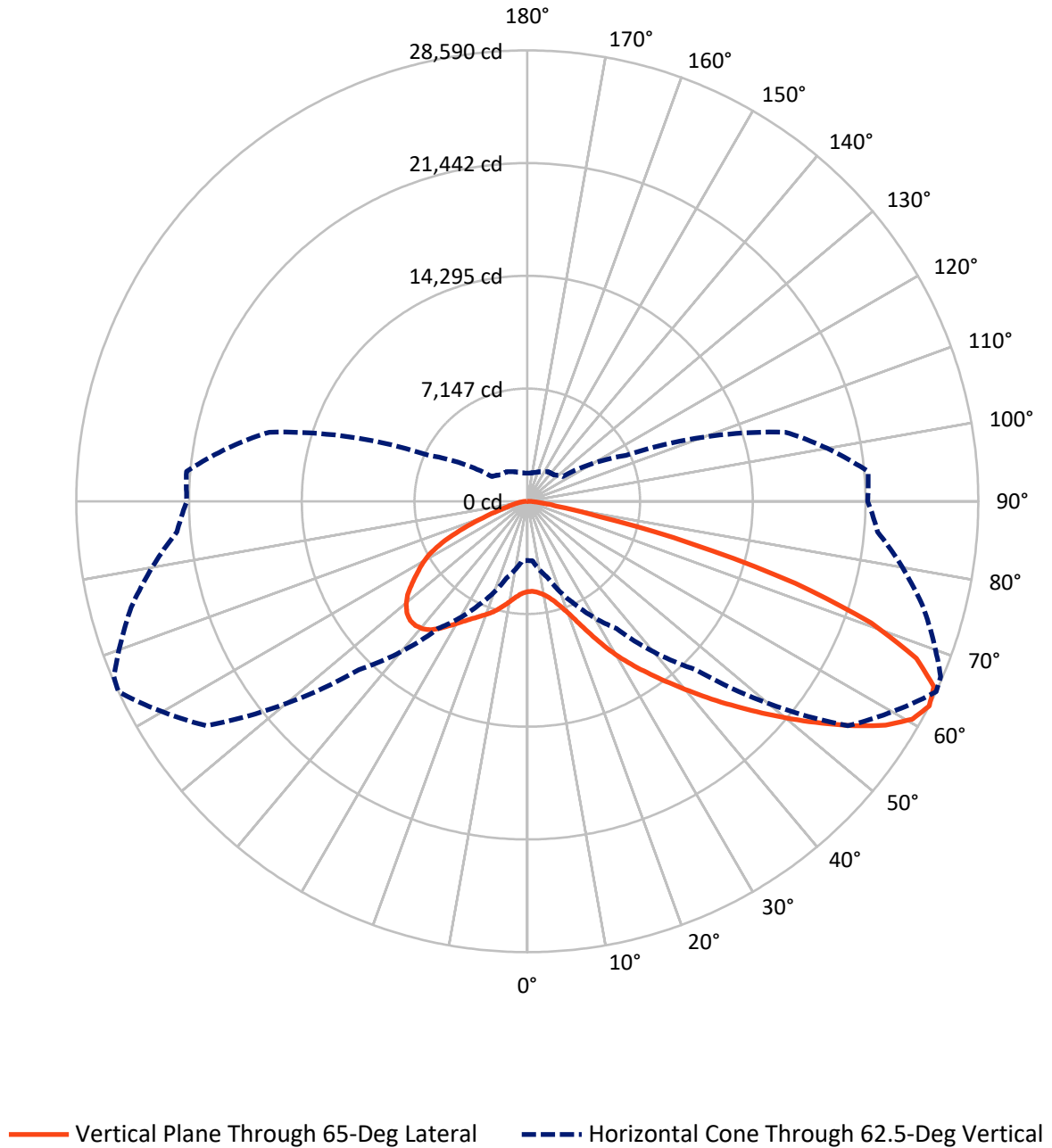
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16401.7	0.0	16401.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	35575.3	0.0	35575.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	51977.0	0.0	51977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.0	1.1
10°-20°	1936.4	3.7
20°-30°	3926.4	7.6
30°-40°	6794.5	13.1
40°-50°	10282.2	19.8
50°-60°	12055.2	23.2
60°-70°	10106.8	19.4
70°-80°	5579.8	10.7
80°-90°	724.8	1.4
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°	51977.0	100.0
0°-180°	51977.0	100.0

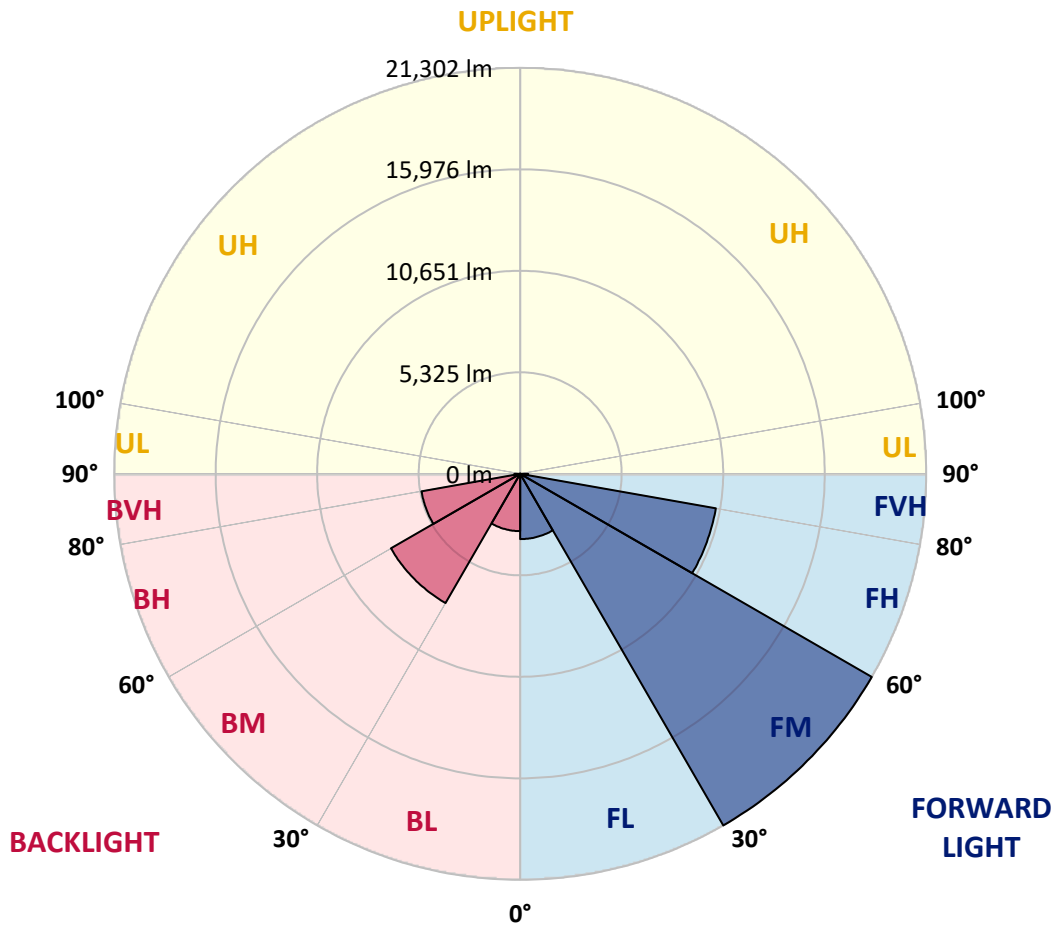


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3426.0	6.6			
FM (30°-60°)	21301.9	41.0			
FH (60°-80°)	10425.1	20.1			G4/12000
FVH (80°-90°)	422.4	0.8			G3/500
BL (0°-30°)	3007.9	5.8	B4/5000		
BM (30°-60°)	7829.9	15.1	B4/8500		
BH (60°-80°)	5261.5	10.1	B5		G5
BVH (80°-90°)	302.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5689.9	5673.7	5687.2	5687.2	5692.6	5689.9	5708.8	5714.2	5722.2	5738.4
5°	5633.3	5630.6	5654.8	5676.4	5698.0	5716.9	5741.1	5776.2	5781.6	5800.4
7.5°	5614.4	5598.2	5636.0	5662.9	5714.2	5760.0	5824.7	5884.0	5908.3	5916.4
10°	5760.0	5733.0	5768.1	5784.3	5827.4	5873.3	5948.8	6043.1	6070.1	6102.5
12.5°	6008.1	5978.4	6029.7	6053.9	6094.4	6134.8	6186.1	6277.8	6291.2	6350.6
15°	6347.9	6312.8	6345.2	6374.8	6442.2	6480.0	6531.2	6620.2	6620.2	6666.1
17.5°	6809.0	6763.1	6787.4	6798.2	6841.3	6898.0	6984.3	7062.5	7102.9	7086.7
20°	7496.6	7440.0	7440.0	7386.1	7369.9	7415.7	7529.0	7636.9	7680.0	7596.4
22.5°	8529.4	8448.5	8402.7	8219.3	8146.5	8151.9	8265.2	8397.3	8432.4	8284.0
25°	9842.7	9716.0	9653.9	9384.3	9219.8	9076.9	9165.8	9335.7	9384.3	9200.9
27.5°	11156.0	11164.0	11104.7	10781.1	10508.8	10247.2	10201.3	10379.3	10430.6	10222.9
30°	12997.8	12806.3	12693.0	12304.7	11916.4	11549.7	11360.9	11433.7	11447.2	11199.1
32.5°	14586.1	14537.5	14294.8	13955.1	13456.2	12881.8	12566.3	12450.3	12428.8	12075.5
35°	16395.5	16368.5	16112.4	15707.9	15168.5	14370.3	13801.3	13469.7	13442.7	12946.5
37.5°	18234.6	18234.6	17983.8	17541.6	16983.4	15985.6	15120.0	14594.2	14507.9	13860.7
40°	19701.6	19612.6	19658.4	19472.4	18833.3	17773.5	16584.3	15821.1	15705.2	14928.5
42.5°	20534.8	20505.2	20780.2	20987.9	20726.3	19879.5	18196.9	17150.6	16988.8	16104.3
45°	20720.9	20688.5	21179.3	21939.8	22306.5	21958.7	19949.7	18550.1	18353.3	17333.9
47.5°	20292.1	20227.4	20947.4	22147.4	23323.1	23935.3	21848.1	20068.3	19782.5	18531.2
50°	19003.1	18941.1	20030.6	21624.3	23665.6	25278.2	23908.3	21678.2	21241.3	19814.8
52.5°	16201.3	16231.0	17938.0	20127.6	23215.3	26114.2	25682.7	23374.4	22848.5	21128.1
55°	12620.2	12684.9	14782.9	17193.7	21413.9	25987.4	26893.5	25121.8	24598.6	22363.1
57.5°	9036.4	9322.2	11288.1	13674.6	17954.2	23978.4	27157.8	26782.9	26276.0	23711.5
60°	5857.1	5908.3	7930.8	10336.2	13671.9	20408.1	26621.1	28042.2	27645.8	25086.7
62.5°	3753.7	3788.8	5021.1	7229.7	9840.0	15098.4	24814.4	28589.7	28468.3	25995.5
65°	2758.7	2731.7	3373.5	4778.4	6628.3	9311.5	21306.1	28325.4	28565.4	26564.5
67.5°	2302.9	2265.2	2580.7	3308.8	4883.6	5288.1	15764.5	26607.6	27486.7	26499.8
70°	2098.0	2065.6	2257.1	2456.6	3810.3	3540.7	7947.0	23131.7	24485.4	25763.6
72.5°	1777.1	1720.4	1982.0	2181.6	2963.6	2715.5	3284.5	17768.1	19418.4	23404.0
75°	1378.0	1340.2	1564.0	1920.0	2227.4	2119.6	2076.4	10789.2	12590.6	18099.8
77.5°	1092.1	1040.9	1245.8	1496.6	2003.6	1599.1	1512.8	4646.3	6431.5	11555.1
80°	822.5	776.6	946.5	1183.8	1539.8	1205.4	978.9	1895.7	2424.3	5854.4
82.5°	585.2	544.7	660.7	868.3	1035.5	1081.3	601.3	1062.5	1194.6	2257.1
85°	374.8	350.6	442.2	544.7	658.0	695.7	366.7	555.5	609.4	930.3
87.5°	204.9	167.2	237.3	253.5	304.7	277.8	175.3	202.2	218.4	337.1
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°
5727.6	0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
5738.4	2.5°	5749.2	5757.3	5784.3	5792.4	5811.2	5835.5	5851.7	5867.9	5867.9	5884.0
5824.7	5°	5827.4	5846.3	5902.9	5932.6	5981.1	6029.7	6059.3	6094.4	6116.0	6126.7
5962.2	7.5°	5978.4	6008.1	6089.0	6140.2	6223.8	6291.2	6337.1	6385.6	6396.4	6426.1
6153.7	10°	6183.4	6218.4	6310.1	6407.2	6507.0	6590.6	6633.7	6668.8	6682.2	6687.6
6399.1	12.5°	6418.0	6469.2	6587.9	6706.5	6811.7	6884.5	6895.3	6887.2	6849.4	6817.1
6701.1	15°	6706.5	6752.4	6884.5	7013.9	7116.4	7129.9	7062.5	7019.3	6973.5	6965.4
7038.2	17.5°	7051.7	7076.0	7197.3	7324.0	7332.1	7286.3	7186.5	7146.1	7102.9	7073.3
7477.8	20°	7453.5	7445.4	7531.7	7585.6	7529.0	7388.8	7237.8	7170.3	7127.2	7092.1
8017.1	22.5°	7933.5	7871.5	7860.7	7847.2	7696.2	7402.2	7197.3	7111.0	7043.6	6995.1
8769.4	25°	8631.9	8394.6	8230.1	8138.4	7798.7	7329.4	7067.9	6876.4	6749.7	6666.1
9689.0	27.5°	9505.6	9106.5	8691.2	8467.4	7798.7	7181.1	6755.1	6444.9	6237.3	6151.0
10578.9	30°	10338.9	9920.9	9308.8	8863.8	7779.8	6938.4	6250.8	5819.3	5576.6	5490.3
11339.3	32.5°	11050.8	10595.1	9964.0	9298.0	7733.9	6544.7	5625.2	5147.9	4913.3	4810.8
12091.7	35°	11711.5	11226.1	10622.0	9775.3	7612.6	5967.6	4937.5	4573.5	4311.9	4147.4
12857.5	37.5°	12388.3	11811.2	11244.9	10206.7	7394.2	5293.5	4409.0	4098.9	3791.5	3570.3
13671.9	40°	13124.5	12434.2	11911.0	10462.9	7035.5	4651.7	3999.1	3716.0	3389.7	3155.1
14610.3	42.5°	13984.7	13181.1	12652.6	10595.1	6544.7	4196.0	3732.1	3454.4	3147.0	2955.5
15616.2	45°	14882.7	14003.6	13329.4	10592.4	5997.3	3982.9	3645.8	3370.8	3031.0	2831.5
16649.0	47.5°	15823.8	14863.8	13914.6	10419.8	5522.7	4012.6	3597.3	3190.1	2815.3	2621.1
17692.6	50°	16767.6	15804.9	14480.9	10096.2	5320.4	3947.9	3416.6	2936.6	2494.4	2319.1
18671.5	52.5°	17703.4	16805.4	14969.0	9635.1	5115.5	3707.9	3184.7	2607.6	2362.2	2240.9
19682.7	55°	18644.5	17795.1	15500.2	8963.6	4603.1	3427.4	2796.4	2483.6	2257.1	2146.5
20672.4	57.5°	19588.3	18938.4	16004.5	8292.1	3958.7	3082.2	2583.4	2332.6	2151.9	2057.5
21500.2	60°	20569.9	20246.3	16524.9	7674.6	3322.2	2640.0	2427.0	2211.2	2027.9	1922.7
22295.7	62.5°	21581.1	21686.3	16932.1	6879.1	2737.1	2370.3	2286.7	2065.6	1887.6	1787.9
22953.7	65°	22600.4	23075.1	17199.1	5776.2	2219.3	2114.2	2135.7	1906.5	1725.8	1639.6
23436.4	67.5°	23369.0	24075.5	17123.6	4371.2	1820.2	1871.5	1947.0	1739.3	1569.4	1502.0
23358.2	70°	23455.3	23956.9	16379.3	2993.3	1523.6	1634.2	1736.6	1574.8	1399.6	1351.0
22258.0	72.5°	22306.5	22338.9	14305.6	1955.1	1289.0	1434.6	1515.5	1407.6	1237.8	1189.2
19472.4	75°	19294.4	18474.6	10503.4	1289.0	1078.7	1232.4	1307.9	1232.4	1067.9	1078.7
14569.9	77.5°	14618.4	13084.0	6377.5	916.9	900.7	1035.5	1138.0	1084.0	943.8	1059.8
7326.7	80°	7531.7	7078.7	2844.9	684.9	711.9	827.9	935.7	865.6	747.0	711.9
1636.9	82.5°	1725.8	2006.3	1121.8	490.8	515.1	596.0	714.6	649.9	536.6	453.0
682.2	85°	604.0	660.7	496.2	307.4	302.0	372.1	485.4	434.2	364.0	291.2
288.5	87.5°	191.5	250.8	186.1	124.0	129.4	167.2	223.8	204.9	169.9	110.6
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>
5727.6
5884.0
6132.1
6415.3
6674.2
6817.1
6965.4
7076.0
7094.8
7011.2
6698.4
6194.2
5541.6
4862.0
4201.3
3629.7
3200.9
2993.3
2863.8
2648.1
2329.9
2240.9
2135.7
2041.3
1914.6
1785.2
1636.9
1504.7
1353.7
1186.5
1040.9
933.0
649.9
447.6
307.4
116.0
0.0

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