

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: P954800

Luminaire Tested: **GALN-SB7D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954800
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-SB7D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53144 lumens
Efficiency: N/A
Efficacy: 103.6 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

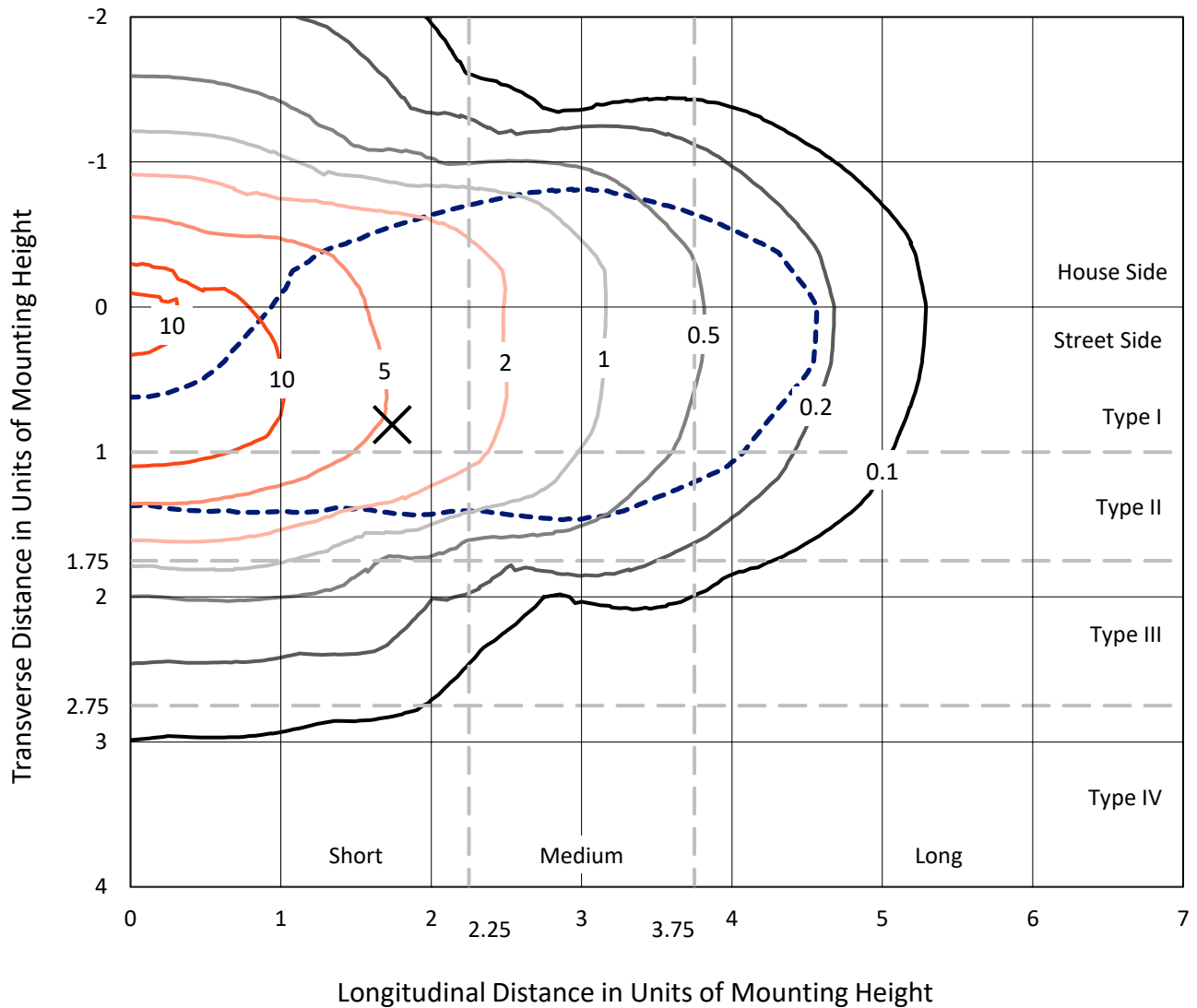
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

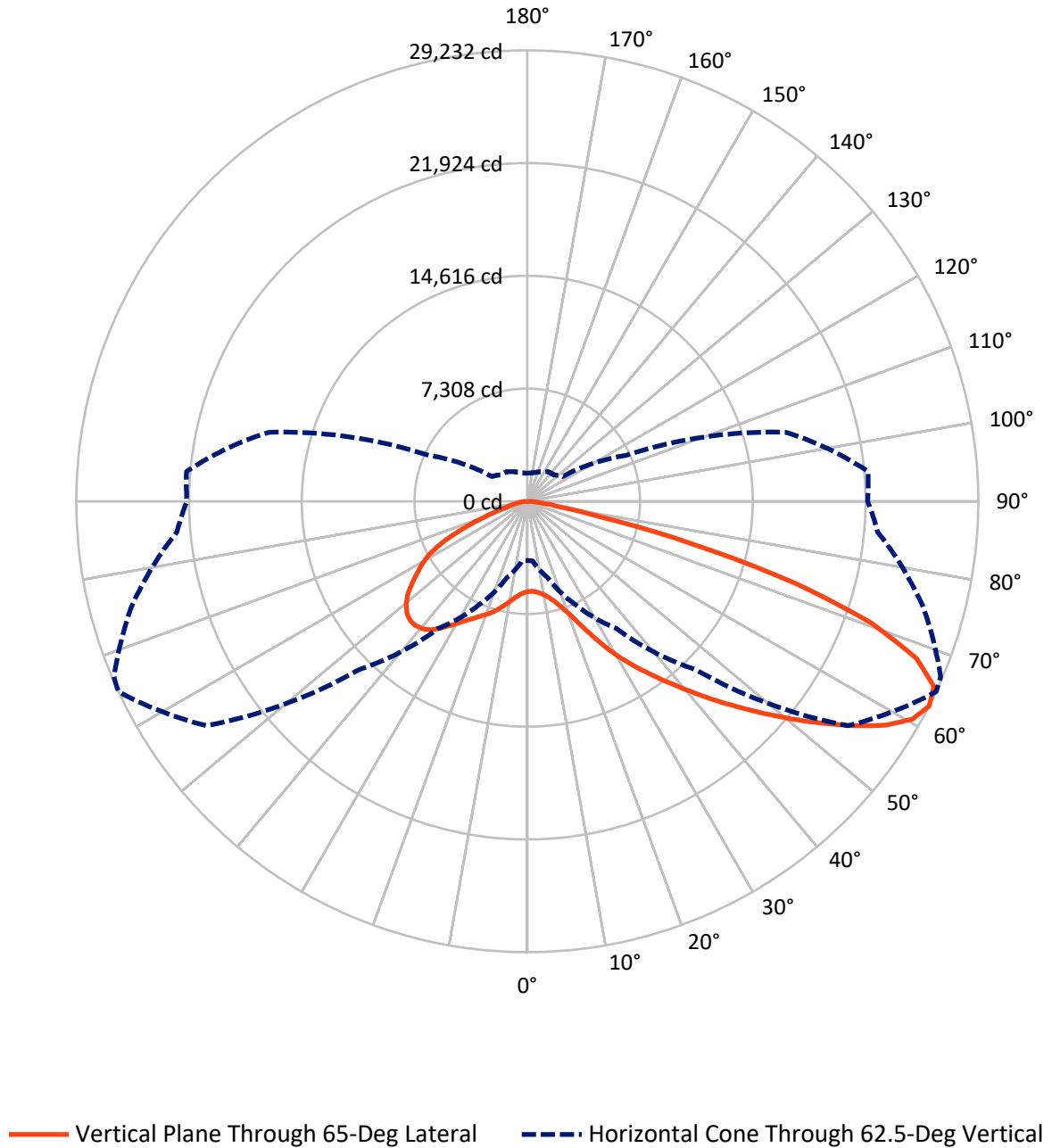
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	16769.9	0.0	16769.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	36374.1	0.0	36374.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	53144.0	0.0	53144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.9	1.1
10°-20°	1979.9	3.7
20°-30°	4014.5	7.6
30°-40°	6947.0	13.1
40°-50°	10513.0	19.8
50°-60°	12325.8	23.2
60°-70°	10333.7	19.4
70°-80°	5705.1	10.7
80°-90°	741.1	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°	53144.0	100.0
0°-180°	53144.0	100.0

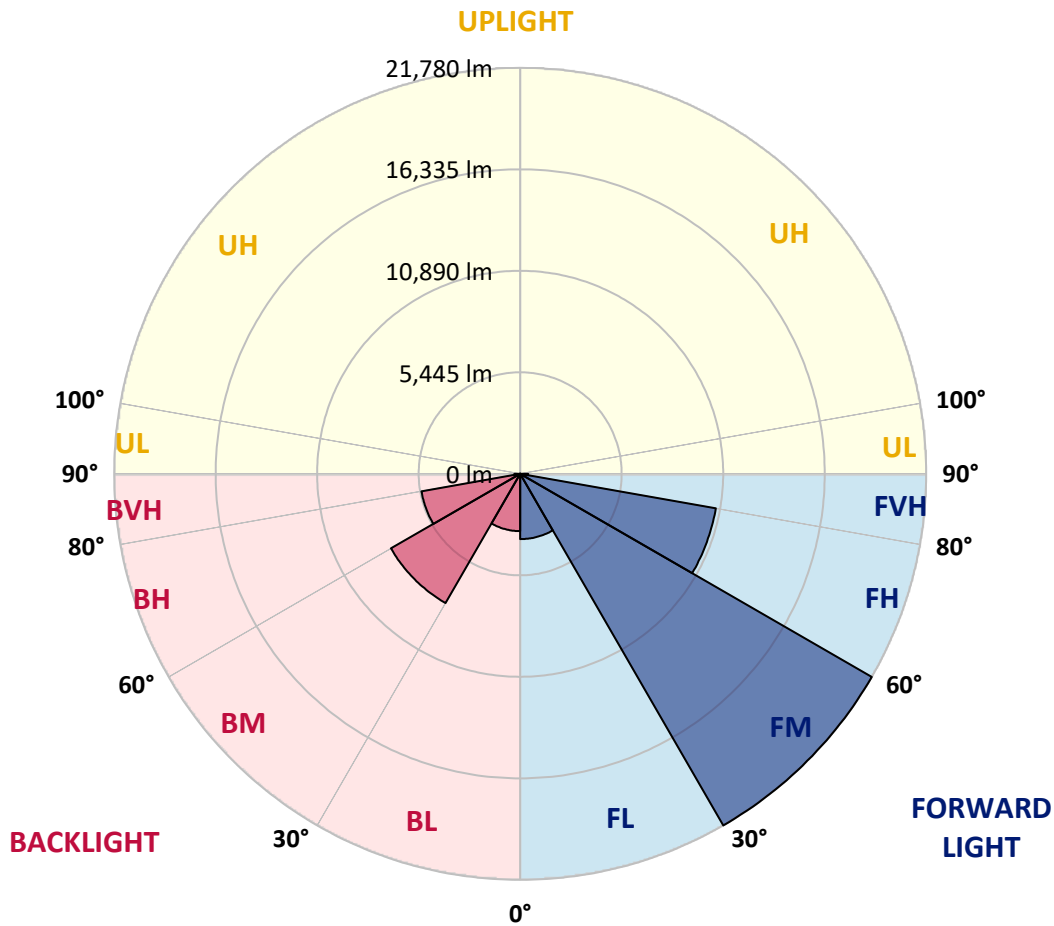


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.9	6.6			
FM (30°-60°)	21780.1	41.0			
FH (60°-80°)	10659.1	20.1			G4/12000
FVH (80°-90°)	431.9	0.8			G3/500
BL (0°-30°)	3075.4	5.8	B4/5000		
BM (30°-60°)	8005.7	15.1	B4/8500		
BH (60°-80°)	5379.7	10.1	B5		G5
BVH (80°-90°)	309.1	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°	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2
2.5°	5817.6	5801.1	5814.9	5814.9	5820.4	5817.6	5836.9	5842.5	5850.7	5867.3
5°	5759.7	5757.0	5781.8	5803.9	5825.9	5845.2	5870.0	5905.9	5911.4	5930.7
7.5°	5740.4	5723.9	5762.5	5790.1	5842.5	5889.3	5955.5	6016.2	6041.0	6049.2
10°	5889.3	5861.8	5897.6	5914.1	5958.3	6005.1	6082.3	6178.8	6206.4	6239.5
12.5°	6143.0	6112.7	6165.0	6189.9	6231.2	6272.6	6325.0	6418.7	6432.5	6493.1
15°	6490.4	6454.5	6487.6	6518.0	6586.9	6625.5	6677.9	6768.9	6768.9	6815.7
17.5°	6961.9	6915.0	6939.8	6950.8	6995.0	7052.9	7141.1	7221.0	7262.4	7245.9
20°	7664.9	7607.0	7607.0	7551.9	7535.4	7582.2	7698.0	7808.3	7852.4	7767.0
22.5°	8720.9	8638.2	8591.4	8403.9	8329.4	8334.9	8450.7	8585.8	8621.7	8470.0
25°	10063.7	9934.1	9870.7	9595.0	9426.8	9280.6	9371.6	9545.3	9595.0	9407.5
27.5°	11406.4	11414.7	11354.0	11023.2	10744.7	10477.3	10430.4	10612.4	10664.8	10452.4
30°	13289.6	13093.8	12978.0	12581.0	12184.0	11809.0	11616.0	11690.4	11704.2	11450.5
32.5°	14913.6	14863.9	14615.8	14268.4	13758.3	13171.0	12848.4	12729.9	12707.8	12346.6
35°	16763.6	16736.0	16474.1	16060.5	15509.1	14693.0	14111.2	13772.1	13744.5	13237.2
37.5°	18644.0	18644.0	18387.6	17935.4	17364.7	16344.5	15459.5	14921.8	14833.6	14171.9
40°	20143.9	20052.9	20099.8	19909.6	19256.1	18172.5	16956.6	16176.3	16057.8	15263.7
42.5°	20995.9	20965.6	21246.8	21459.1	21191.6	20325.9	18605.4	17535.6	17370.2	16465.8
45°	21186.1	21153.0	21654.8	22432.4	22807.3	22451.7	20397.6	18966.6	18765.3	17723.1
47.5°	20747.7	20681.6	21417.7	22644.7	23846.8	24472.7	22338.6	20518.9	20226.6	18947.3
50°	19429.8	19366.4	20480.3	22109.8	24197.0	25845.8	24445.1	22164.9	21718.3	20259.7
52.5°	16565.1	16595.4	18340.7	20579.5	23736.5	26700.5	26259.3	23899.2	23361.5	21602.5
55°	12903.6	12969.7	15114.8	17579.7	21894.7	26570.9	27497.3	25685.8	25150.9	22865.2
57.5°	9239.3	9531.6	11541.5	13981.6	18357.3	24516.8	27767.5	27384.3	26865.9	24243.8
60°	5988.6	6041.0	8108.8	10568.2	13978.9	20866.3	27218.8	28671.9	28266.6	25650.0
62.5°	3838.0	3873.8	5133.9	7392.0	10060.9	15437.4	25371.5	29231.6	29107.5	26579.2
65°	2820.6	2793.0	3449.2	4885.7	6777.1	9520.5	21784.4	28961.4	29206.7	27160.9
67.5°	2354.6	2316.0	2638.6	3383.1	4993.2	5406.8	16118.4	27205.0	28103.9	27094.8
70°	2145.1	2112.0	2307.8	2511.8	3895.9	3620.2	8125.4	23651.0	25035.1	26342.0
72.5°	1817.0	1759.1	2026.5	2230.6	3030.1	2776.5	3358.2	18167.0	19854.4	23929.5
75°	1408.9	1370.3	1599.2	1963.1	2277.4	2167.1	2123.0	11031.5	12873.2	18506.2
77.5°	1116.7	1064.3	1273.8	1530.2	2048.6	1635.0	1546.8	4750.6	6575.9	11814.5
80°	840.9	794.1	967.8	1210.4	1574.3	1232.5	1000.9	1938.3	2478.7	5985.8
82.5°	598.3	556.9	675.5	887.8	1058.8	1105.6	614.8	1086.3	1221.4	2307.8
85°	383.2	358.4	452.2	556.9	672.8	711.4	375.0	568.0	623.1	951.2
87.5°	209.5	170.9	242.6	259.2	311.6	284.0	179.2	206.8	223.3	344.6
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°
5856.2	0°	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2	5856.2
5867.3	2.5°	5878.3	5886.6	5914.1	5922.4	5941.7	5966.5	5983.1	5999.6	5999.6	6016.2
5955.5	5°	5958.3	5977.6	6035.5	6065.8	6115.4	6165.0	6195.4	6231.2	6253.3	6264.3
6096.1	7.5°	6112.7	6143.0	6225.7	6278.1	6363.6	6432.5	6479.4	6529.0	6540.0	6570.3
6291.9	10°	6322.2	6358.0	6451.8	6551.0	6653.1	6738.5	6782.6	6818.5	6832.3	6837.8
6542.8	12.5°	6562.1	6614.5	6735.8	6857.1	6964.6	7039.1	7050.1	7041.8	7003.2	6970.1
6851.6	15°	6857.1	6904.0	7039.1	7171.4	7276.2	7290.0	7221.0	7176.9	7130.1	7121.8
7196.2	17.5°	7210.0	7234.8	7358.9	7488.5	7496.8	7449.9	7347.9	7306.5	7262.4	7232.1
7645.6	20°	7620.8	7612.6	7700.8	7755.9	7698.0	7554.7	7400.3	7331.3	7287.2	7251.4
8197.1	22.5°	8111.6	8048.2	8037.2	8023.4	7869.0	7568.4	7358.9	7270.7	7201.7	7152.1
8966.3	25°	8825.7	8583.1	8414.9	8321.2	7973.7	7494.0	7226.6	7030.8	6901.2	6815.7
9906.5	27.5°	9719.0	9311.0	8886.4	8657.5	7973.7	7342.4	6906.7	6589.6	6377.3	6289.1
10816.4	30°	10571.0	10143.6	9517.8	9062.8	7954.4	7094.2	6391.1	5950.0	5701.8	5613.6
11593.9	32.5°	11298.9	10832.9	10187.8	9506.7	7907.6	6691.7	5751.5	5263.4	5023.6	4918.8
12363.2	35°	11974.4	11478.1	10860.5	9994.8	7783.5	6101.6	5048.4	4676.2	4408.7	4240.5
13146.2	37.5°	12666.5	12076.4	11497.4	10435.9	7560.2	5412.3	4508.0	4190.9	3876.6	3650.5
13978.9	40°	13419.2	12713.3	12178.4	10697.8	7193.5	4756.1	4088.9	3799.4	3465.8	3225.9
14938.4	42.5°	14298.7	13477.1	12936.7	10832.9	6691.7	4290.2	3815.9	3531.9	3217.6	3021.9
15966.8	45°	15216.8	14318.0	13628.7	10830.2	6132.0	4072.3	3727.7	3446.5	3099.1	2895.0
17022.8	47.5°	16179.1	15197.5	14227.0	10653.7	5646.7	4102.7	3678.1	3261.7	2878.5	2680.0
18089.8	50°	17144.1	16159.8	14806.0	10322.9	5439.9	4036.5	3493.3	3002.6	2550.4	2371.2
19090.7	52.5°	18100.8	17182.7	15305.1	9851.4	5230.4	3791.1	3256.2	2666.2	2415.3	2291.2
20124.6	55°	19063.1	18194.6	15848.2	9164.8	4706.5	3504.4	2859.2	2539.4	2307.8	2194.7
21136.5	57.5°	20028.1	19363.6	16363.8	8478.3	4047.5	3151.5	2641.4	2385.0	2200.2	2103.7
21983.0	60°	21031.7	20700.9	16896.0	7846.9	3396.8	2699.3	2481.5	2260.9	2073.4	1965.9
22796.3	62.5°	22065.7	22173.2	17312.3	7033.6	2798.5	2423.6	2338.1	2112.0	1930.0	1828.0
23469.1	65°	23107.9	23593.1	17585.3	5905.9	2269.2	2161.6	2183.7	1949.3	1764.6	1676.4
23962.6	67.5°	23893.7	24616.1	17508.1	4469.4	1861.1	1913.5	1990.7	1778.4	1604.7	1535.7
23882.6	70°	23981.9	24494.7	16747.1	3060.5	1557.8	1670.8	1775.6	1610.2	1431.0	1381.3
22757.7	72.5°	22807.3	22840.4	14626.8	1999.0	1317.9	1466.8	1549.5	1439.2	1265.5	1215.9
19909.6	75°	19727.6	18889.4	10739.2	1317.9	1102.9	1260.0	1337.2	1260.0	1091.8	1102.9
14897.0	77.5°	14946.6	13377.8	6520.7	937.4	920.9	1058.8	1163.5	1108.4	965.0	1083.6
7491.2	80°	7700.8	7237.6	2908.8	700.3	727.9	846.5	956.7	885.1	763.7	727.9
1673.6	82.5°	1764.6	2051.3	1147.0	501.8	526.6	609.3	730.7	664.5	548.7	463.2
697.6	85°	617.6	675.5	507.3	314.3	308.8	380.5	496.3	443.9	372.2	297.8
295.0	87.5°	195.8	256.4	190.2	126.8	132.3	170.9	228.8	209.5	173.7	113.0
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>
5856.2
6016.2
6269.8
6559.3
6824.0
6970.1
7121.8
7234.8
7254.1
7168.7
6848.8
6333.2
5666.0
4971.2
4295.7
3711.2
3272.8
3060.5
2928.1
2707.5
2382.2
2291.2
2183.7
2087.2
1957.6
1825.2
1673.6
1538.5
1384.1
1213.2
1064.3
954.0
664.5
457.7
314.3
118.6
0.0

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