

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: P943458

Luminaire Tested: **GALN-SB7D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

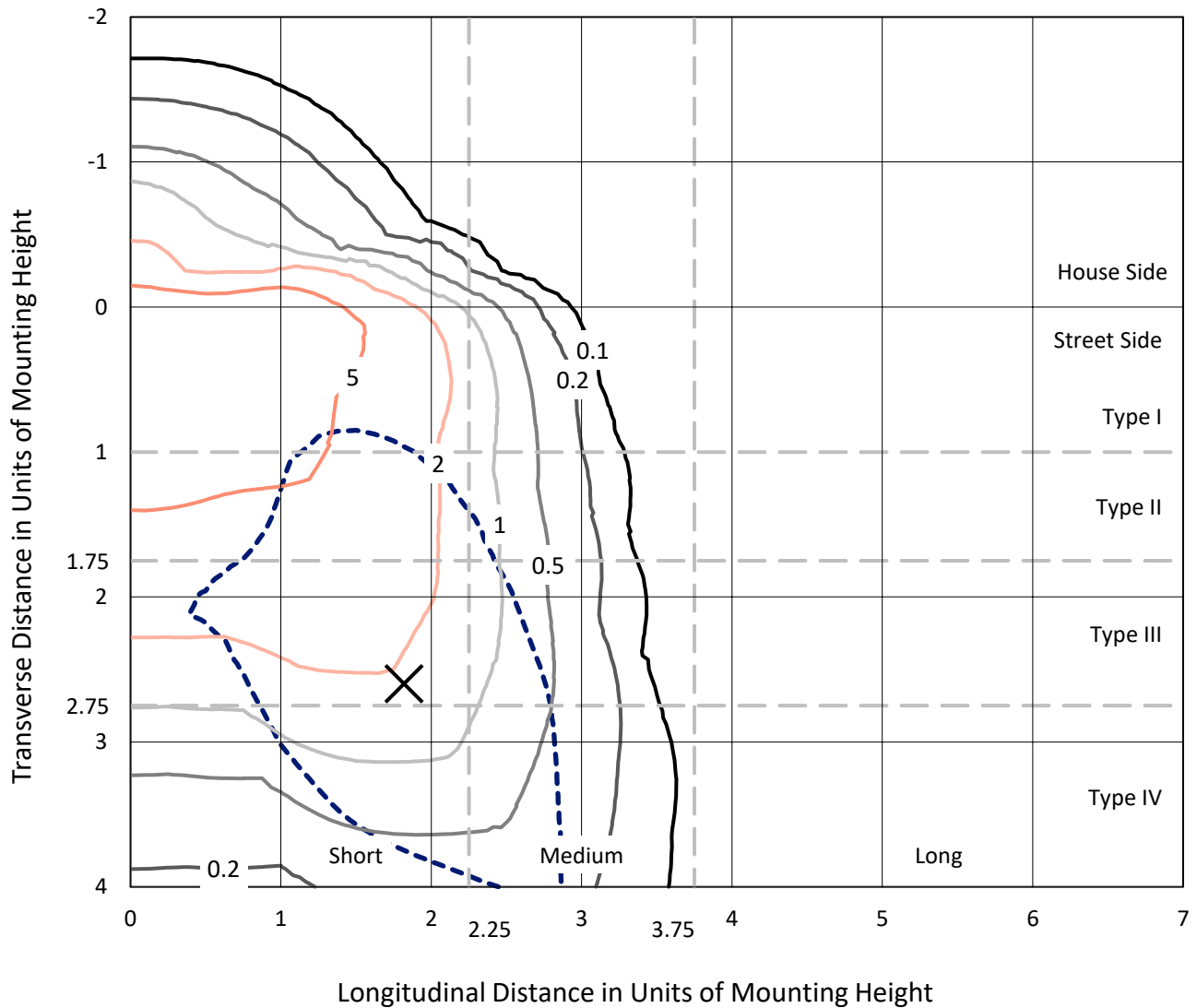
Lumens per Lamp: N/A  
Luminaire Lumens: 39705 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

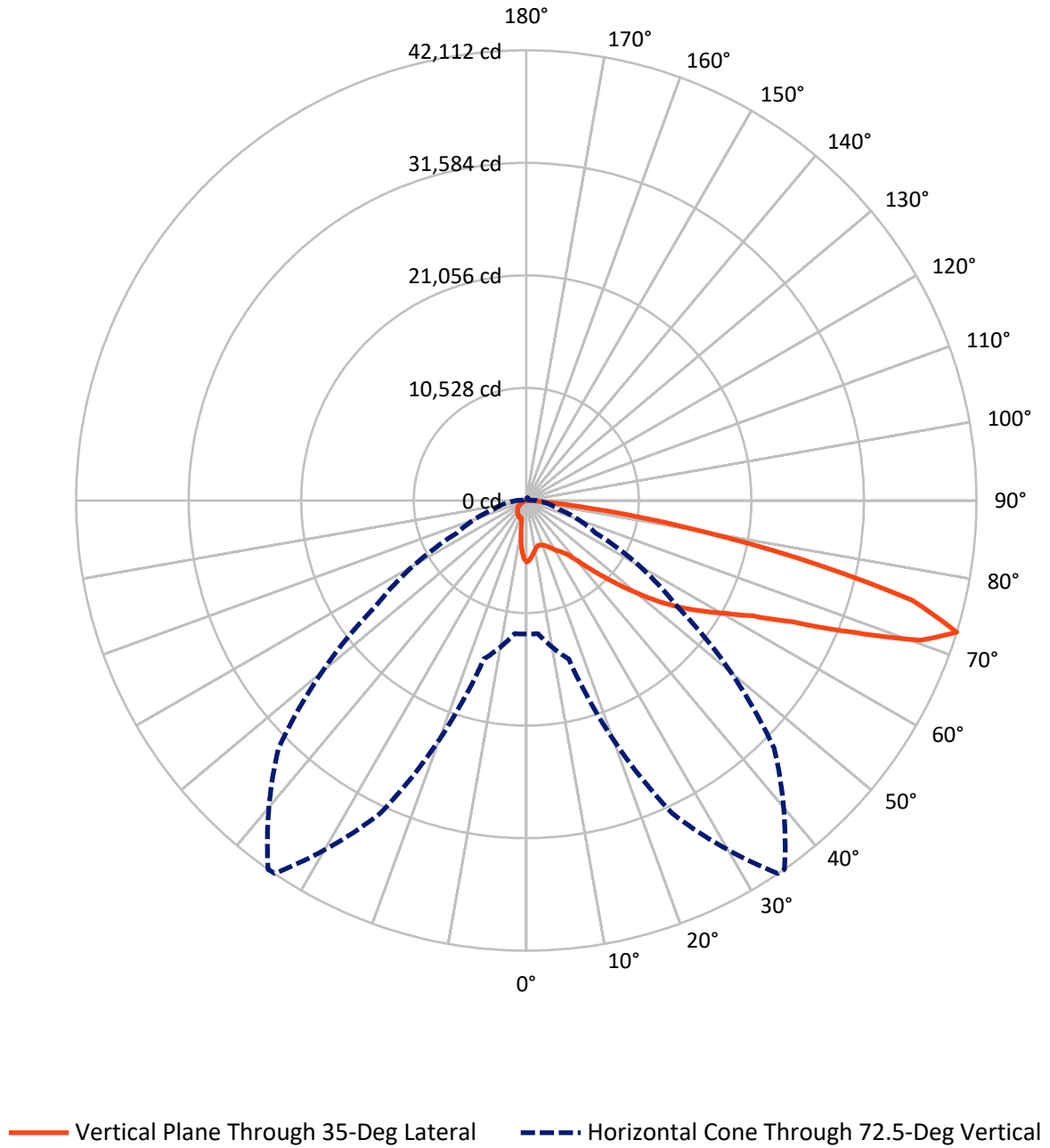
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4468.6	0.0	4468.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	35236.4	0.0	35236.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	39705.0	0.0	39705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.9	1.2
10°-20°	1106.2	2.8
20°-30°	1797.0	4.5
30°-40°	2998.3	7.6
40°-50°	5673.0	14.3
50°-60°	9014.3	22.7
60°-70°	11151.3	28.1
70°-80°	6931.7	17.5
80°-90°	560.2	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°	39705.0	100.0
0°-180°	39705.0	100.0

**Coefficient of Utilization**



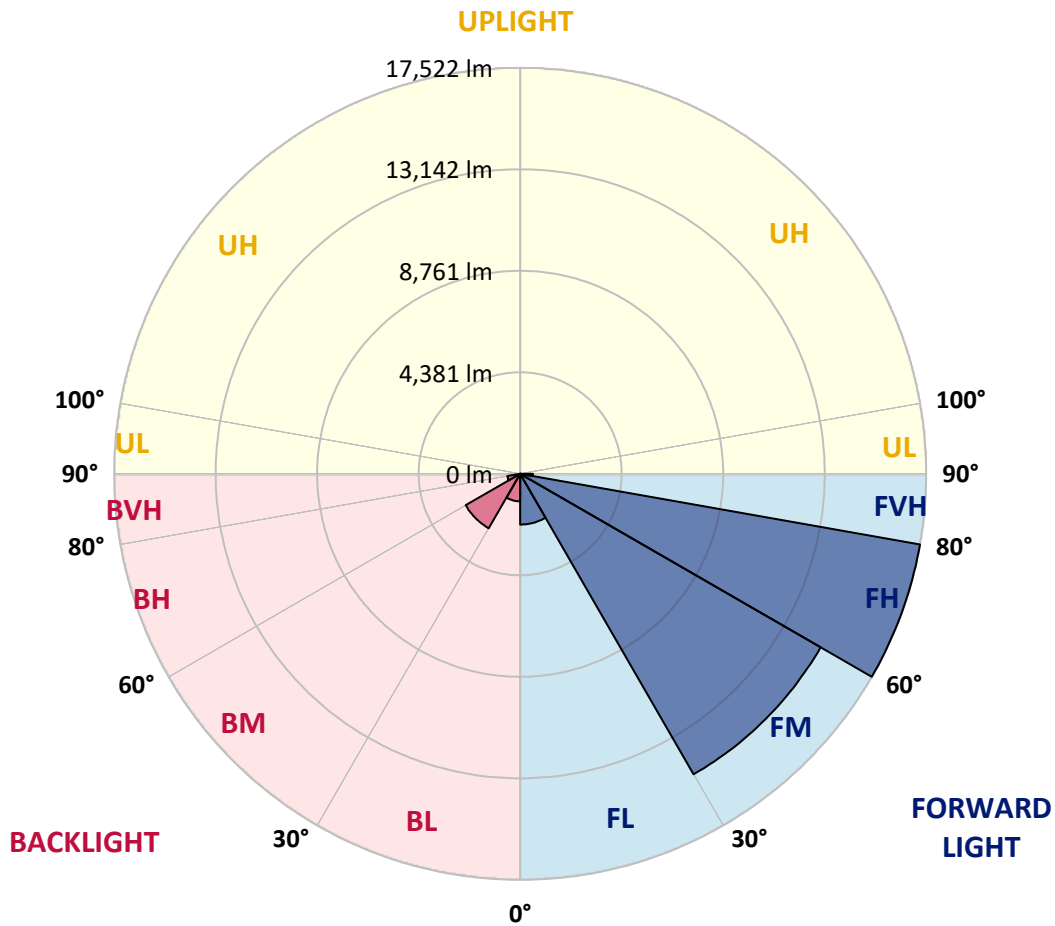
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2188.8	5.5			
FM (30°-60°)	14972.8	37.7			
FH (60°-80°)	17522.3	44.1			G5
FVH (80°-90°)	552.6	1.4			G4/750
BL (0°-30°)	1187.4	3.0	B3/2500		
BM (30°-60°)	2712.8	6.8	B3/5000		
BH (60°-80°)	560.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6
2.5°	5498.6	5545.1	5553.8	5568.4	5568.4	5585.8	5614.9	5655.7	5722.6	5757.5
5°	5068.0	5102.9	5146.5	5181.5	5248.4	5257.1	5370.6	5481.1	5635.3	5751.7
7.5°	4634.5	4675.2	4733.4	4817.8	4905.1	4931.3	5102.9	5289.1	5533.5	5751.7
10°	4329.0	4331.9	4384.3	4468.7	4608.3	4640.3	4849.8	5114.5	5420.0	5716.8
12.5°	4157.4	4177.7	4201.0	4265.0	4398.9	4419.2	4643.2	4954.5	5306.6	5696.4
15°	4157.4	4171.9	4186.5	4218.5	4326.1	4343.6	4541.4	4852.7	5248.4	5705.1
17.5°	4201.0	4224.3	4212.7	4250.5	4363.9	4375.6	4550.1	4823.6	5245.5	5760.4
20°	4305.8	4323.2	4299.9	4323.2	4436.7	4459.9	4640.3	4878.9	5294.9	5856.4
22.5°	4471.6	4480.3	4425.0	4442.5	4558.9	4588.0	4797.4	5036.0	5414.2	6010.6
25°	4681.1	4698.5	4614.1	4634.5	4745.1	4780.0	5021.4	5271.6	5603.3	6223.0
27.5°	4922.5	4931.3	4858.5	4855.6	4998.2	5047.6	5292.0	5562.6	5856.4	6490.6
30°	5198.9	5225.1	5155.3	5143.6	5324.0	5364.7	5606.2	5920.4	6228.8	6892.1
32.5°	5417.1	5437.5	5396.7	5425.8	5609.1	5641.1	5987.3	6426.6	6813.6	7462.3
35°	5731.3	5742.9	5649.9	5702.2	5911.7	5993.1	6508.1	7136.5	7549.6	8178.0
37.5°	6868.8	6868.8	6473.2	6214.3	6415.0	6487.7	7220.9	8029.7	8457.3	9138.1
40°	8442.8	8416.6	7837.6	7308.1	7282.0	7424.5	8236.2	9155.6	9629.8	10290.2
42.5°	10121.4	10080.7	9292.3	8768.6	8681.3	8730.8	9408.7	10543.3	11026.2	11695.4
45°	11611.0	11599.4	10877.9	10173.8	10016.7	10173.8	10872.0	12166.7	12512.9	13216.9
47.5°	12859.1	12859.1	12332.5	11872.8	11791.4	11884.5	12853.3	13967.5	13935.5	14837.4
50°	14296.3	14284.6	13784.2	13586.4	13670.8	13801.7	15134.2	15864.4	15407.6	16428.8
52.5°	15302.9	15372.7	15201.1	15169.1	15599.6	15826.6	17450.0	17720.5	16725.5	17938.7
55°	16100.0	16181.5	16379.3	16603.3	17432.5	17729.2	19693.0	19480.6	17828.2	19247.9
57.5°	17228.8	17112.5	17417.9	17860.2	19201.3	19559.2	21866.3	21141.8	18715.5	20309.8
60°	18599.1	18616.6	18668.9	19227.5	20967.3	21427.0	24007.5	22712.9	19285.7	20961.5
62.5°	20245.8	20272.0	20379.6	21237.9	23338.4	23771.9	26288.4	23998.8	19547.6	20778.2
65°	20132.3	20242.9	21444.4	24379.9	26943.0	27370.6	28950.4	24900.7	19151.9	19102.4
67.5°	18340.2	18520.6	20530.9	28132.9	32377.5	32854.7	32168.1	25078.1	17444.1	14854.9
70°	15989.5	16053.5	18471.1	31507.7	38670.4	39153.3	35048.3	23126.0	13237.3	8285.7
72.5°	12486.7	12501.2	15337.8	32290.3	42085.9	42112.0	32787.8	17167.8	7119.0	3182.8
75°	8919.9	8832.6	10272.7	26186.6	37026.6	37323.3	24580.6	8052.9	2720.2	1504.1
77.5°	4782.9	4878.9	5812.8	15529.8	25578.5	26084.7	13411.9	2321.6	1384.8	1024.1
80°	1477.9	1559.4	2382.7	7110.3	14488.3	14793.8	4972.0	1032.8	965.9	730.2
82.5°	465.5	482.9	1111.4	2987.8	6013.5	6153.2	1440.1	584.8	660.4	482.9
85°	133.8	136.7	494.6	1114.3	1486.6	1515.7	404.4	226.9	378.2	299.7
87.5°	14.5	46.5	186.2	186.2	130.9	128.0	43.6	49.5	107.6	37.8
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°
5754.6	0°	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6	5754.6
5780.8	2.5°	5766.2	5769.1	5731.3	5667.3	5597.5	5539.3	5466.6	5408.4	5367.6	5356.0
5833.1	5°	5807.0	5786.6	5678.9	5484.0	5251.3	5050.5	4826.5	4649.1	4532.7	4483.2
5888.4	7.5°	5868.0	5809.9	5574.2	5190.2	4745.1	4349.4	3947.9	3636.6	3438.8	3339.9
5940.8	10°	5920.4	5804.0	5399.7	4765.4	4084.7	3485.3	2944.2	2568.9	2359.4	2260.5
6001.9	12.5°	5969.9	5801.1	5172.7	4262.1	3339.9	2606.7	2103.4	1917.2	1859.0	1838.7
6100.8	15°	6063.0	5809.9	4887.6	3686.1	2598.0	1969.6	1786.3	1783.4	1795.0	1789.2
6252.1	17.5°	6191.0	5818.6	4564.7	3075.1	2004.5	1736.8	1728.1	1754.3	1771.8	1763.0
6441.2	20°	6356.8	5853.5	4221.4	2470.0	1722.3	1678.7	1699.0	1722.3	1736.8	1722.3
6694.3	22.5°	6589.6	5914.6	3846.1	1984.1	1632.1	1643.8	1661.2	1687.4	1701.9	1681.6
7017.2	25°	6874.7	6010.6	3476.6	1725.2	1588.5	1603.0	1629.2	1658.3	1675.8	1655.4
7424.5	27.5°	7244.1	6164.8	3136.2	1667.0	1544.8	1553.6	1591.4	1635.0	1658.3	1632.1
8003.5	30°	7779.5	6417.9	2842.4	1693.2	1518.7	1498.3	1550.7	1611.7	1637.9	1614.7
8791.9	32.5°	8489.3	6775.7	2662.0	1733.9	1507.0	1434.3	1483.7	1562.3	1605.9	1591.4
9821.8	35°	9420.3	7319.8	2592.2	1780.5	1498.3	1367.4	1402.3	1486.6	1562.3	1576.8
11119.3	37.5°	10549.1	8076.2	2612.5	1800.9	1472.1	1312.1	1329.5	1402.3	1501.2	1547.7
12579.8	40°	11832.1	8957.7	2728.9	1780.5	1443.0	1265.5	1268.5	1323.7	1411.0	1480.8
14150.8	42.5°	13155.8	9987.6	2944.2	1704.8	1416.8	1224.8	1216.1	1253.9	1312.1	1361.6
15718.9	45°	14415.6	11046.6	3156.6	1600.1	1384.8	1184.1	1163.7	1178.3	1189.9	1210.3
17246.3	47.5°	15515.3	11791.4	3095.5	1504.1	1341.2	1137.5	1102.6	1096.8	1061.9	1059.0
18610.8	50°	16274.6	11954.3	2749.3	1408.1	1277.2	1085.2	1029.9	995.0	933.9	904.8
19631.9	52.5°	16516.1	11311.3	2246.0	1312.1	1172.4	1015.3	936.8	881.5	805.9	779.7
20219.6	55°	16196.0	10051.6	1795.0	1195.7	1027.0	922.2	835.0	762.2	701.1	669.1
20283.6	57.5°	15413.4	8448.6	1419.7	1059.0	872.8	817.5	730.2	657.5	605.1	573.1
19573.7	60°	14115.9	6708.8	1123.0	896.1	744.8	704.0	613.9	567.3	520.8	482.9
17740.9	62.5°	12146.3	4788.7	881.5	709.9	622.6	576.0	523.7	488.8	433.5	381.1
14444.7	65°	9478.5	2929.7	680.8	520.8	500.4	477.1	445.1	413.1	346.2	293.8
9423.2	67.5°	5978.6	1387.7	485.9	392.8	395.7	384.0	369.5	343.3	293.8	247.3
4221.4	70°	2632.9	672.0	320.0	299.7	293.8	293.8	305.5	296.7	250.2	206.6
1466.3	72.5°	896.1	360.8	238.6	226.9	212.4	209.5	256.0	247.3	200.7	160.0
730.2	75°	468.4	241.5	174.6	162.9	128.0	154.2	203.7	192.0	142.6	104.7
482.9	77.5°	305.5	171.6	119.3	104.7	72.7	101.8	151.3	133.8	84.4	52.4
317.1	80°	192.0	113.5	69.8	49.5	34.9	55.3	81.5	58.2	32.0	11.6
186.2	82.5°	101.8	58.2	26.2	17.5	14.5	17.5	20.4	14.5	5.8	0.0
96.0	85°	40.7	20.4	8.7	5.8	2.9	0.0	5.8	2.9	0.0	0.0
17.5	87.5°	14.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5754.6
5376.4
4500.7
3354.4
2263.4
1832.9
1786.3
1760.1
1719.4
1678.7
1652.5
1632.1
1611.7
1591.4
1576.8
1559.4
1504.1
1381.9
1221.9
1056.1
907.7
776.8
669.1
567.3
474.2
372.4
285.1
241.5
197.8
151.3
96.0
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8.7
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