

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: P943248

Luminaire Tested: **GALN-SB7C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943248
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-SB7C-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA 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: 38572 lumens
Efficiency: N/A
Efficacy: 110.0 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

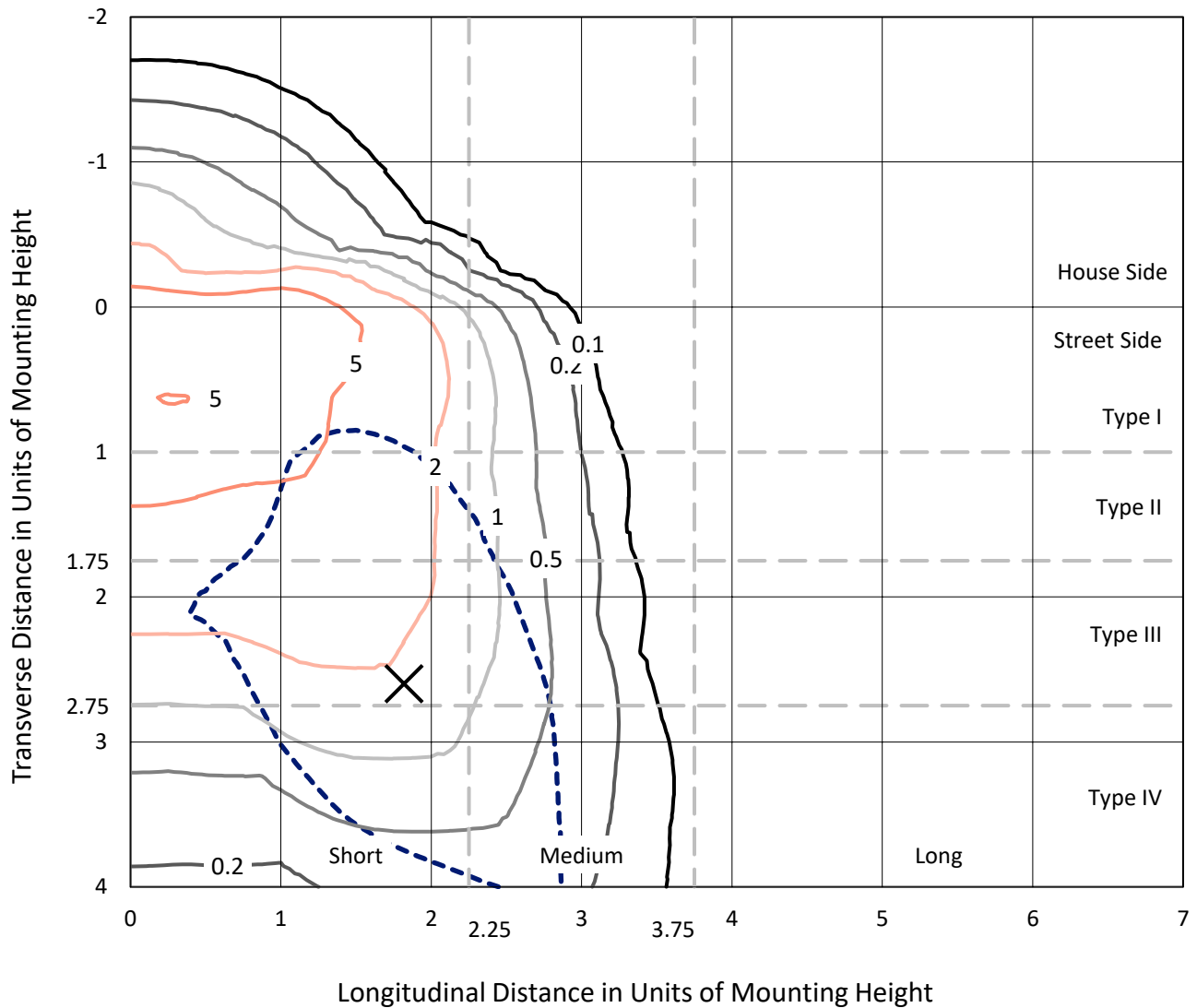
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

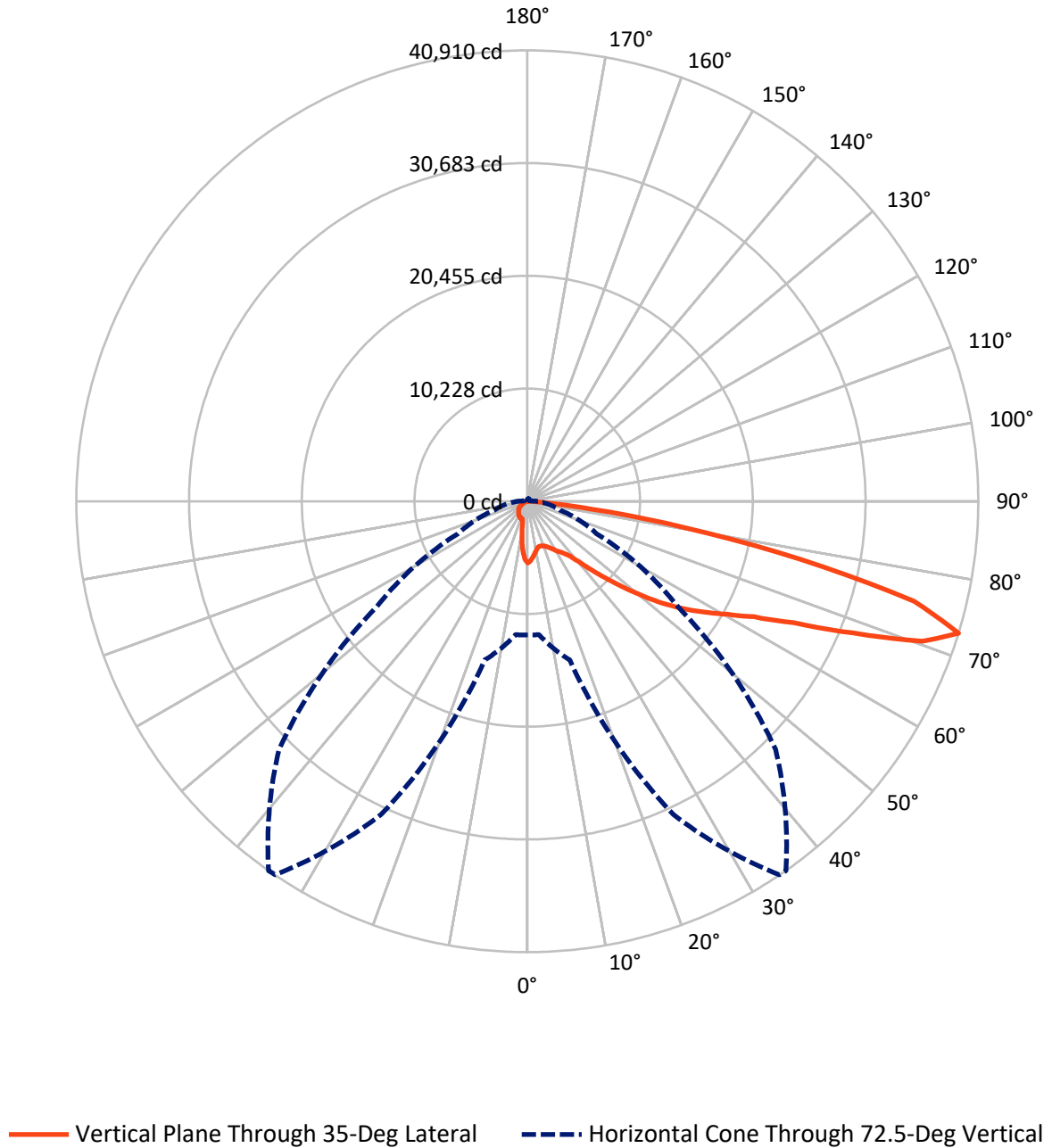
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4341.1	0.0	4341.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	34230.9	0.0	34230.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	38572.0	0.0	38572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.4	1.2
10°-20°	1074.7	2.8
20°-30°	1745.8	4.5
30°-40°	2912.8	7.6
40°-50°	5511.1	14.3
50°-60°	8757.1	22.7
60°-70°	10833.1	28.1
70°-80°	6733.9	17.5
80°-90°	544.2	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°	38572.0	100.0
0°-180°	38572.0	100.0

Coefficient of Utilization



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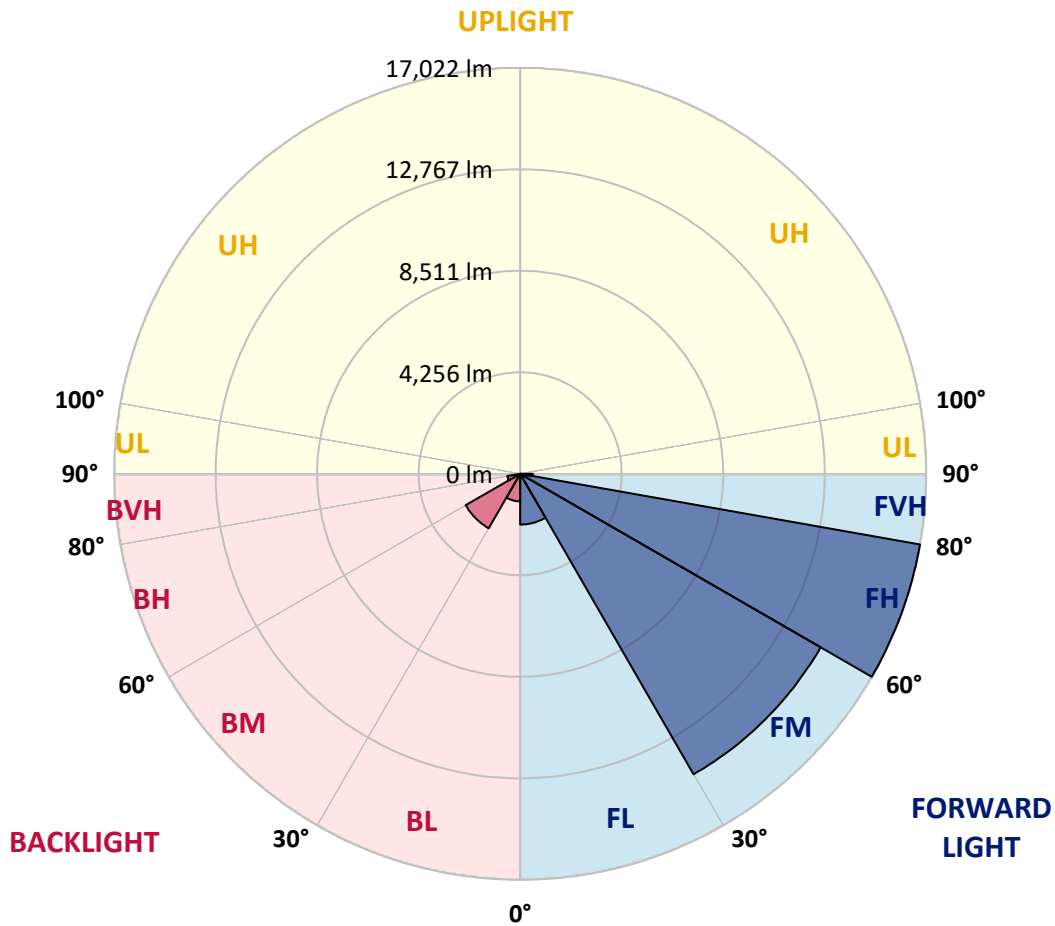
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.3	5.5			
FM (30°-60°)	14545.5	37.7			
FH (60°-80°)	17022.3	44.1			G5
FVH (80°-90°)	536.8	1.4			G4/750
BL (0°-30°)	1153.5	3.0	B3/2500		
BM (30°-60°)	2635.4	6.8	B3/5000		
BH (60°-80°)	544.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4
2.5°	5341.7	5386.9	5395.4	5409.5	5409.5	5426.5	5454.7	5494.3	5559.3	5593.2
5°	4923.4	4957.3	4999.7	5033.6	5098.6	5107.1	5217.3	5324.7	5474.5	5587.5
7.5°	4502.3	4541.8	4598.4	4680.3	4765.1	4790.5	4957.3	5138.2	5375.6	5587.5
10°	4205.5	4208.3	4259.2	4341.2	4476.8	4507.9	4711.4	4968.6	5265.4	5553.6
12.5°	4038.7	4058.5	4081.1	4143.3	4273.3	4293.1	4510.7	4813.1	5155.1	5533.9
15°	4038.7	4052.9	4067.0	4098.1	4202.7	4219.6	4411.8	4714.2	5098.6	5542.3
17.5°	4081.1	4103.8	4092.4	4129.2	4239.4	4250.7	4420.3	4686.0	5095.8	5596.0
20°	4182.9	4199.8	4177.2	4199.8	4310.1	4332.7	4507.9	4739.7	5143.8	5689.3
22.5°	4344.0	4352.5	4298.8	4315.7	4428.8	4457.0	4660.5	4892.3	5259.7	5839.1
25°	4547.5	4564.4	4482.5	4502.3	4609.7	4643.6	4878.2	5121.2	5443.4	6045.4
27.5°	4782.1	4790.5	4719.9	4717.1	4855.5	4903.6	5141.0	5403.8	5689.3	6305.4
30°	5050.6	5076.0	5008.2	4996.9	5172.1	5211.7	5446.2	5751.5	6051.1	6695.5
32.5°	5262.5	5282.3	5242.7	5271.0	5449.1	5480.2	5816.5	6243.2	6619.1	7249.4
35°	5567.8	5579.1	5488.6	5539.5	5743.0	5822.1	6322.4	6932.9	7334.2	7944.7
37.5°	6672.8	6672.8	6288.5	6036.9	6231.9	6302.6	7014.8	7800.5	8216.0	8877.3
40°	8201.9	8176.4	7614.0	7099.6	7074.2	7212.7	8001.2	8894.3	9355.0	9996.5
42.5°	9832.6	9793.1	9027.1	8518.4	8433.6	8481.7	9140.2	10242.4	10711.6	11361.6
45°	11279.7	11268.4	10567.4	9883.5	9730.9	9883.5	10561.8	11819.5	12155.8	12839.8
47.5°	12492.1	12492.1	11980.6	11534.0	11454.9	11545.3	12486.5	13569.0	13537.9	14414.0
50°	13888.3	13877.0	13390.9	13198.7	13280.7	13407.9	14702.3	15411.7	14968.0	15960.0
52.5°	14866.2	14934.0	14767.3	14736.2	15154.5	15374.9	16952.0	17214.9	16248.3	17426.8
55°	15640.6	15719.8	15911.9	16129.6	16935.1	17223.3	19131.1	18924.8	17319.4	18698.6
57.5°	16737.2	16624.2	16920.9	17350.5	18653.4	19001.1	21242.3	20538.6	18181.4	19730.2
60°	18068.4	18085.3	18136.2	18678.9	20369.0	20815.5	23322.4	22064.7	18735.4	20363.3
62.5°	19668.1	19693.5	19798.1	20631.8	22672.4	23093.5	25538.2	23314.0	18989.8	20185.3
65°	19557.8	19665.2	20832.5	23684.2	26174.2	26589.6	28124.3	24190.1	18605.4	18557.3
67.5°	17816.9	17992.1	19945.0	27330.1	31453.6	31917.1	31250.1	24362.5	16946.4	14431.0
70°	15533.2	15595.4	17944.0	30608.6	37566.9	38036.0	34048.2	22466.1	12859.6	8049.2
72.5°	12130.4	12144.5	14900.1	31368.8	40884.9	40910.4	31852.1	16677.9	6915.9	3091.9
75°	8665.4	8580.6	9979.6	25439.3	35970.0	36258.3	23879.2	7823.1	2642.6	1461.2
77.5°	4646.4	4739.7	5646.9	15086.7	24848.6	25340.4	13029.1	2255.4	1345.3	994.8
80°	1435.7	1514.9	2314.7	6907.4	14074.9	14371.6	4830.1	1003.3	938.3	709.4
82.5°	452.2	469.2	1079.6	2902.6	5841.9	5977.6	1399.0	568.1	641.6	469.2
85°	130.0	132.8	480.5	1082.5	1444.2	1472.5	392.9	220.4	367.4	291.1
87.5°	14.1	45.2	180.9	180.9	127.2	124.4	42.4	48.0	104.6	36.7
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°
5590.4	0°	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4
5615.8	2.5°	5601.7	5604.5	5567.8	5505.6	5437.8	5381.2	5310.6	5254.0	5214.5	5203.2
5666.7	5°	5641.2	5621.5	5516.9	5327.5	5101.4	4906.4	4688.8	4516.4	4403.3	4355.3
5720.4	7.5°	5700.6	5644.1	5415.1	5042.1	4609.7	4225.3	3835.3	3532.8	3340.7	3244.6
5771.3	10°	5751.5	5638.4	5245.6	4629.4	3968.1	3385.9	2860.2	2495.6	2292.1	2196.0
5830.6	12.5°	5799.5	5635.6	5025.1	4140.5	3244.6	2532.3	2043.4	1862.5	1806.0	1786.2
5926.7	15°	5890.0	5644.1	4748.1	3580.9	2523.9	1913.4	1735.3	1732.5	1743.8	1738.2
6073.7	17.5°	6014.3	5652.6	4434.4	2987.4	1947.3	1687.3	1678.8	1704.2	1721.2	1712.7
6257.4	20°	6175.4	5686.5	4100.9	2399.5	1673.2	1630.8	1650.5	1673.2	1687.3	1673.2
6503.3	22.5°	6401.5	5745.8	3736.3	1927.5	1585.5	1596.8	1613.8	1639.2	1653.4	1633.6
6817.0	25°	6678.5	5839.1	3377.4	1676.0	1543.1	1557.3	1582.7	1611.0	1627.9	1608.2
7212.7	27.5°	7037.4	5988.9	3046.7	1619.5	1500.8	1509.2	1546.0	1588.4	1611.0	1585.5
7775.1	30°	7557.5	6234.8	2761.3	1644.9	1475.3	1455.5	1506.4	1565.8	1591.2	1568.6
8541.0	32.5°	8247.1	6582.4	2586.0	1684.5	1464.0	1393.4	1441.4	1517.7	1560.1	1546.0
9541.5	35°	9151.5	7110.9	2518.2	1729.7	1455.5	1328.4	1362.3	1444.2	1517.7	1531.8
10802.0	37.5°	10248.1	7845.7	2538.0	1749.5	1430.1	1274.7	1291.6	1362.3	1458.4	1503.6
12220.8	40°	11494.5	8702.1	2651.0	1729.7	1401.8	1229.4	1232.3	1286.0	1370.7	1438.6
13747.0	42.5°	12780.4	9702.6	2860.2	1656.2	1376.4	1189.9	1181.4	1218.1	1274.7	1322.7
15270.4	45°	14004.2	10731.4	3066.5	1554.5	1345.3	1150.3	1130.5	1144.6	1155.9	1175.7
16754.2	47.5°	15072.5	11454.9	3007.2	1461.2	1302.9	1105.1	1071.2	1065.5	1031.6	1028.8
18079.7	50°	15810.2	11613.2	2670.8	1367.9	1240.7	1054.2	1000.5	966.6	907.2	879.0
19071.7	52.5°	16044.8	10988.6	2181.9	1274.7	1139.0	986.4	910.1	856.4	782.9	757.4
19642.6	55°	15733.9	9764.8	1743.8	1161.6	997.7	895.9	811.1	740.5	681.1	650.0
19704.8	57.5°	14973.6	8207.5	1379.2	1028.8	847.9	794.2	709.4	638.7	587.9	556.8
19015.2	60°	13713.1	6517.4	1090.9	870.5	723.5	684.0	596.3	551.1	505.9	469.2
17234.6	62.5°	11799.7	4652.1	856.4	689.6	604.8	559.6	508.7	474.8	421.1	370.2
14032.5	65°	9208.0	2846.1	661.3	505.9	486.1	463.5	432.4	401.3	336.3	285.5
9154.3	67.5°	5808.0	1348.1	472.0	381.5	384.4	373.1	358.9	333.5	285.5	240.2
4100.9	70°	2557.8	652.9	310.9	291.1	285.5	285.5	296.8	288.3	243.1	200.7
1424.4	72.5°	870.5	350.5	231.8	220.4	206.3	203.5	248.7	240.2	195.0	155.4
709.4	75°	455.0	234.6	169.6	158.3	124.4	149.8	197.8	186.5	138.5	101.7
469.2	77.5°	296.8	166.8	115.9	101.7	70.7	98.9	147.0	130.0	82.0	50.9
308.1	80°	186.5	110.2	67.8	48.0	33.9	53.7	79.1	56.5	31.1	11.3
180.9	82.5°	98.9	56.5	25.4	17.0	14.1	17.0	19.8	14.1	5.7	0.0
93.3	85°	39.6	19.8	8.5	5.7	2.8	0.0	5.7	2.8	0.0	0.0
17.0	87.5°	14.1	2.8	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>
5590.4
5223.0
4372.3
3258.7
2198.8
1780.6
1735.3
1709.9
1670.3
1630.8
1605.3
1585.5
1565.8
1546.0
1531.8
1514.9
1461.2
1342.5
1187.0
1025.9
881.8
754.6
650.0
551.1
460.7
361.8
277.0
234.6
192.2
147.0
93.3
45.2
8.5
0.0
0.0
0.0
0.0

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