

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: P943898

Luminaire Tested: **GALN-SB8C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943898
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-SB8C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 41200 lumens
Efficiency: N/A
Efficacy: 103.1 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

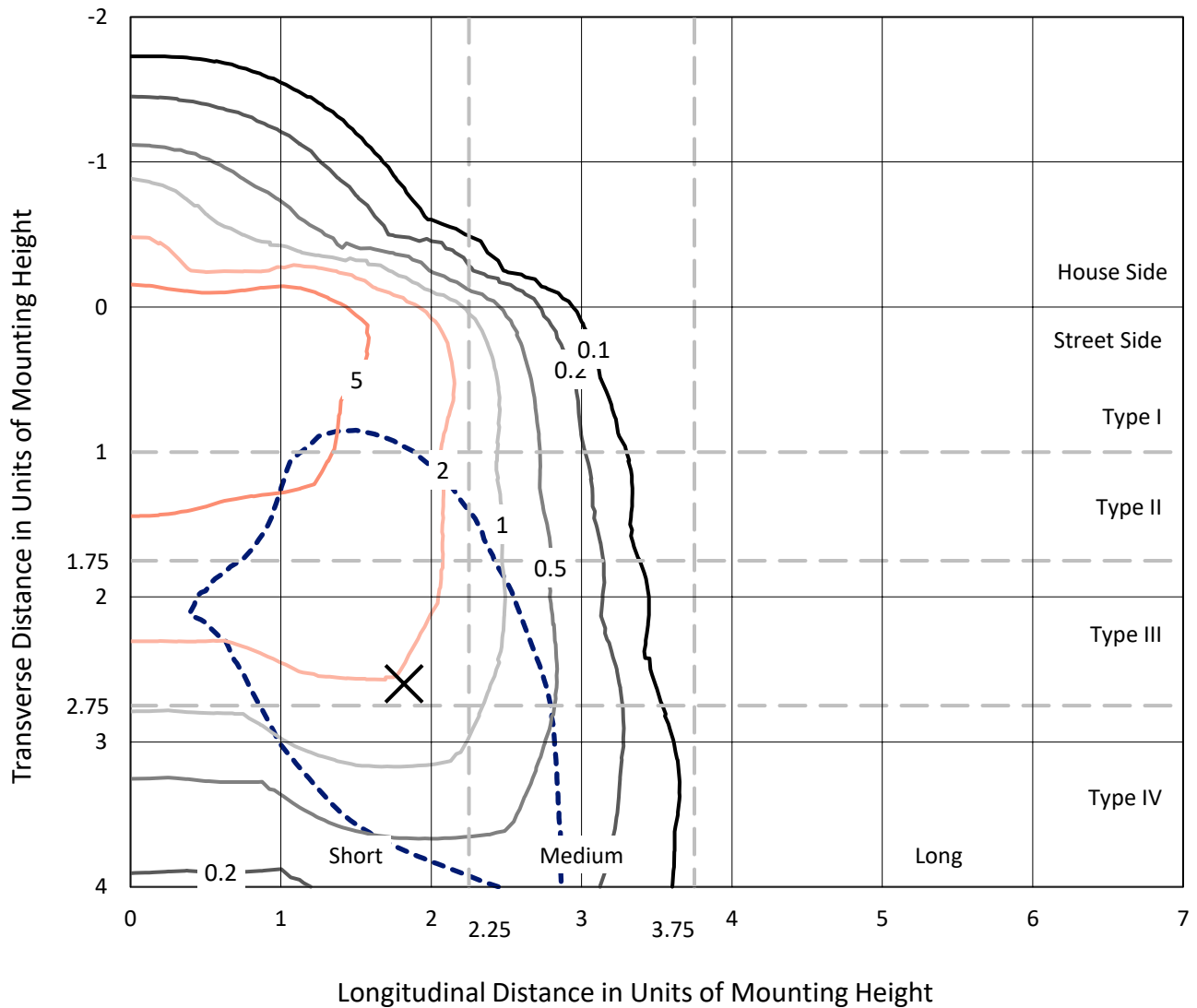
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

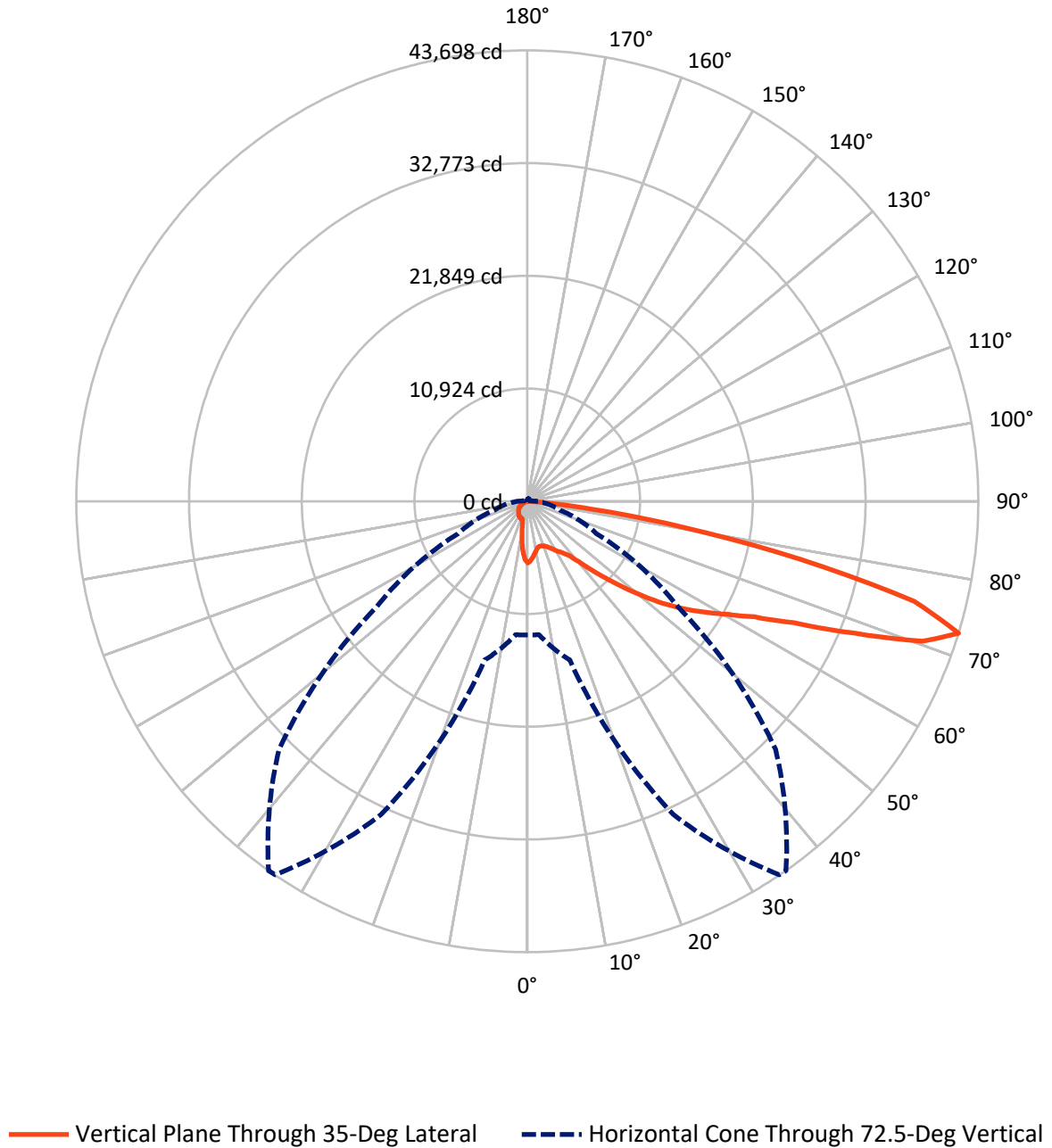
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	4636.9	0.0	4636.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	36563.1	0.0	36563.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	41200.0	0.0	41200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.7	1.2
10°-20°	1147.9	2.8
20°-30°	1864.7	4.5
30°-40°	3111.2	7.6
40°-50°	5886.6	14.3
50°-60°	9353.7	22.7
60°-70°	11571.2	28.1
70°-80°	7192.7	17.5
80°-90°	581.3	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°	41200.0	100.0
0°-180°	41200.0	100.0

Coefficient of Utilization



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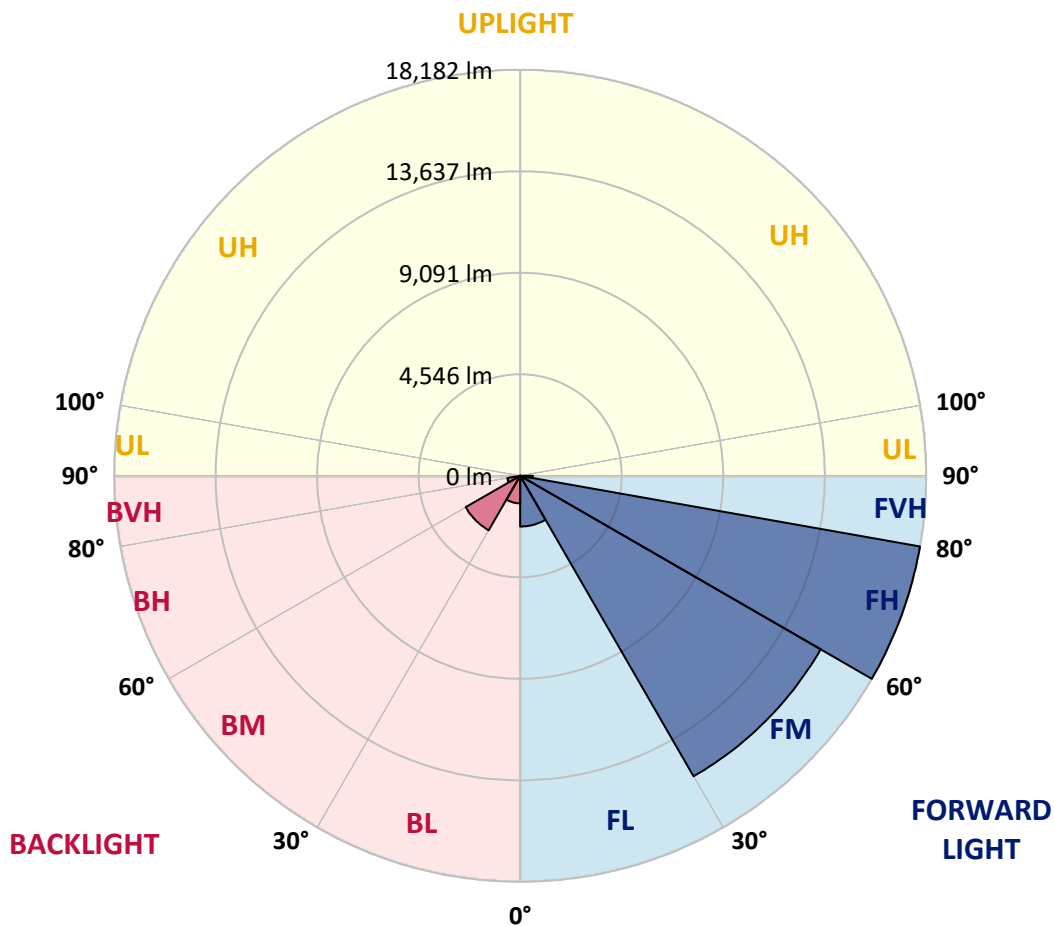
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.2	5.5			
FM (30°-60°)	15536.5	37.7			
FH (60°-80°)	18182.1	44.1			G5
FVH (80°-90°)	573.4	1.4			G4/750
BL (0°-30°)	1232.1	3.0	B3/2500		
BM (30°-60°)	2815.0	6.8	B3/5000		
BH (60°-80°)	581.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3
2.5°	5705.6	5753.9	5763.0	5778.1	5778.1	5796.2	5826.4	5868.6	5938.1	5974.3
5°	5258.8	5295.0	5340.3	5376.6	5446.0	5455.0	5572.8	5687.5	5847.5	5968.2
7.5°	4809.0	4851.3	4911.6	4999.2	5089.8	5116.9	5295.0	5488.2	5741.8	5968.2
10°	4492.0	4495.0	4549.4	4636.9	4781.8	4815.0	5032.4	5307.1	5624.1	5932.0
12.5°	4313.9	4335.1	4359.2	4425.6	4564.5	4585.6	4818.1	5141.1	5506.4	5910.9
15°	4313.9	4329.0	4344.1	4377.3	4489.0	4507.1	4712.4	5035.4	5446.0	5919.9
17.5°	4359.2	4383.4	4371.3	4410.5	4528.3	4540.3	4721.5	5005.2	5443.0	5977.3
20°	4467.9	4486.0	4461.8	4486.0	4603.7	4627.9	4815.0	5062.6	5494.3	6076.9
22.5°	4640.0	4649.0	4591.7	4609.8	4730.5	4760.7	4978.1	5225.6	5618.1	6236.9
25°	4857.3	4875.4	4787.9	4809.0	4923.7	4960.0	5210.5	5470.1	5814.3	6457.3
27.5°	5107.9	5116.9	5041.5	5038.4	5186.4	5237.7	5491.3	5772.0	6076.9	6735.0
30°	5394.7	5421.8	5349.4	5337.3	5524.5	5566.7	5817.3	6143.3	6463.3	7151.6
32.5°	5621.1	5642.2	5599.9	5630.1	5820.3	5853.5	6212.8	6668.6	7070.1	7743.3
35°	5947.1	5959.2	5862.6	5916.9	6134.3	6218.8	6753.1	7405.2	7833.9	8486.0
37.5°	7127.5	7127.5	6716.9	6448.2	6656.5	6732.0	7492.8	8332.0	8775.8	9482.2
40°	8760.7	8733.5	8132.7	7583.3	7556.2	7704.1	8546.3	9500.3	9992.4	10677.6
42.5°	10502.5	10460.3	9642.2	9098.8	9008.2	9059.5	9762.9	10940.3	11441.4	12135.7
45°	12048.2	12036.1	11287.4	10556.9	10393.9	10556.9	11281.4	12624.8	12984.0	13714.6
47.5°	13343.3	13343.3	12796.9	12319.9	12235.3	12332.0	13337.2	14493.4	14460.2	15396.1
50°	14834.6	14822.5	14303.3	14098.0	14185.5	14321.4	15704.0	16461.7	15987.8	17047.4
52.5°	15879.1	15951.5	15773.4	15740.2	16187.0	16422.5	18107.0	18387.7	17355.3	18614.2
55°	16706.2	16790.8	16996.1	17228.5	18088.9	18396.8	20434.5	20214.1	18499.4	19972.6
57.5°	17877.6	17756.8	18073.8	18532.6	19924.3	20295.6	22689.6	21937.9	19420.2	21074.5
60°	19299.4	19317.5	19371.9	19951.5	21756.8	22233.7	24911.5	23568.1	20011.9	21750.7
62.5°	21008.1	21035.3	21147.0	22037.5	24217.1	24666.9	27278.2	24902.4	20283.6	21560.5
65°	20890.4	21005.1	22251.9	25297.9	27957.5	28401.2	30040.5	25838.2	19873.0	19821.7
67.5°	19030.8	19217.9	21303.9	29192.2	33596.6	34091.7	33379.3	26022.4	18101.0	15414.2
70°	16591.5	16657.9	19166.6	32694.0	40126.4	40627.5	36367.9	23996.7	13735.7	8597.7
72.5°	12956.9	12971.9	15915.3	33506.1	43670.5	43697.7	34022.3	17814.2	7387.1	3302.6
75°	9255.8	9165.2	10659.5	27172.6	38420.7	38728.7	25506.2	8356.1	2822.6	1560.7
77.5°	4963.0	5062.6	6031.6	16114.6	26541.6	27066.9	13916.8	2409.0	1437.0	1062.6
80°	1533.6	1618.1	2472.4	7378.0	15033.8	15350.8	5159.2	1071.7	1002.3	757.7
82.5°	483.0	501.1	1153.2	3100.3	6239.9	6384.8	1494.3	606.8	685.3	501.1
85°	138.9	141.9	513.2	1156.2	1542.6	1572.8	419.6	235.5	392.4	310.9
87.5°	15.1	48.3	193.2	193.2	135.8	132.8	45.3	51.3	111.7	39.2
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°
5971.3	0°	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3	5971.3
5998.4	2.5°	5983.3	5986.4	5947.1	5880.7	5808.2	5747.9	5672.4	5612.0	5569.8	5557.7
6052.8	5°	6025.6	6004.5	5892.8	5690.5	5449.0	5240.7	5008.3	4824.1	4703.3	4652.0
6110.1	7.5°	6089.0	6028.6	5784.1	5385.6	4923.7	4513.2	4096.6	3773.5	3568.3	3465.6
6164.5	10°	6143.3	6022.6	5603.0	4944.9	4238.4	3616.6	3055.1	2665.6	2448.3	2345.6
6227.9	12.5°	6194.7	6019.6	5367.5	4422.6	3465.6	2704.9	2182.6	1989.4	1929.0	1907.9
6330.5	15°	6291.3	6028.6	5071.6	3824.9	2695.8	2043.8	1853.6	1850.5	1862.6	1856.6
6487.5	17.5°	6424.1	6037.7	4736.6	3190.9	2080.0	1802.2	1793.2	1820.4	1838.5	1829.4
6683.7	20°	6596.2	6073.9	4380.3	2563.0	1787.2	1741.9	1763.0	1787.2	1802.2	1787.2
6946.3	22.5°	6837.7	6137.3	3990.9	2058.8	1693.6	1705.6	1723.8	1750.9	1766.0	1744.9
7281.4	25°	7133.5	6236.9	3607.5	1790.2	1648.3	1663.4	1690.5	1720.7	1738.9	1717.7
7704.1	27.5°	7516.9	6396.9	3254.3	1729.8	1603.0	1612.1	1651.3	1696.6	1720.7	1693.6
8304.8	30°	8072.4	6659.6	2949.4	1757.0	1575.8	1554.7	1609.0	1672.4	1699.6	1675.5
9122.9	32.5°	8809.0	7030.9	2762.2	1799.2	1563.8	1488.3	1539.6	1621.1	1666.4	1651.3
10191.6	35°	9775.0	7595.4	2689.8	1847.5	1554.7	1418.9	1455.1	1542.6	1621.1	1636.2
11538.0	37.5°	10946.3	8380.3	2710.9	1868.7	1527.5	1361.5	1379.6	1455.1	1557.7	1606.0
13053.5	40°	12277.6	9295.0	2831.7	1847.5	1497.3	1313.2	1316.2	1373.6	1464.1	1536.6
14683.6	42.5°	13651.2	10363.7	3055.1	1769.0	1470.2	1270.9	1261.9	1301.1	1361.5	1412.8
16310.8	45°	14958.3	11462.5	3275.4	1660.4	1437.0	1228.7	1207.5	1222.6	1234.7	1255.8
17895.7	47.5°	16099.5	12235.3	3212.0	1560.7	1391.7	1180.4	1144.1	1138.1	1101.9	1098.9
19311.5	50°	16887.4	12404.4	2852.8	1461.1	1325.3	1126.0	1068.7	1032.4	969.0	938.9
20371.1	52.5°	17137.9	11737.2	2330.5	1361.5	1216.6	1053.6	972.1	914.7	836.2	809.0
20980.9	55°	16805.9	10430.1	1862.6	1240.7	1065.6	957.0	866.4	790.9	727.5	694.3
21047.3	57.5°	15993.8	8766.7	1473.2	1098.9	905.7	848.3	757.7	682.3	627.9	594.7
20310.7	60°	14647.4	6961.4	1165.3	929.8	772.8	730.6	637.0	588.7	540.4	501.1
18408.9	62.5°	12603.6	4969.0	914.7	736.6	646.0	597.7	543.4	507.2	449.8	395.5
14988.5	65°	9835.4	3040.0	706.4	540.4	519.2	495.1	461.9	428.7	359.2	304.9
9778.0	67.5°	6203.7	1440.0	504.1	407.5	410.6	398.5	383.4	356.2	304.9	256.6
4380.3	70°	2732.0	697.4	332.1	310.9	304.9	304.9	317.0	307.9	259.6	214.3
1521.5	72.5°	929.8	374.3	247.5	235.5	220.4	217.4	265.7	256.6	208.3	166.0
757.7	75°	486.0	250.6	181.1	169.1	132.8	160.0	211.3	199.2	147.9	108.7
501.1	77.5°	317.0	178.1	123.8	108.7	75.5	105.7	157.0	138.9	87.5	54.3
329.1	80°	199.2	117.7	72.5	51.3	36.2	57.4	84.5	60.4	33.2	12.1
193.2	82.5°	105.7	60.4	27.2	18.1	15.1	18.1	21.1	15.1	6.0	0.0
99.6	85°	42.3	21.1	9.1	6.0	3.0	0.0	6.0	3.0	0.0	0.0
18.1	87.5°	15.1	3.0	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>
5971.3
5578.8
4670.1
3480.7
2348.7
1901.9
1853.6
1826.4
1784.1
1741.9
1714.7
1693.6
1672.4
1651.3
1636.2
1618.1
1560.7
1433.9
1267.9
1095.8
941.9
806.0
694.3
588.7
492.1
386.4
295.8
250.6
205.3
157.0
99.6
48.3
9.1
0.0
0.0
0.0
0.0

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