

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: P944648

Luminaire Tested: **GALN-SB9C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944648
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-SB9C-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 37426 lumens
Efficiency: N/A
Efficacy: 83.2 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

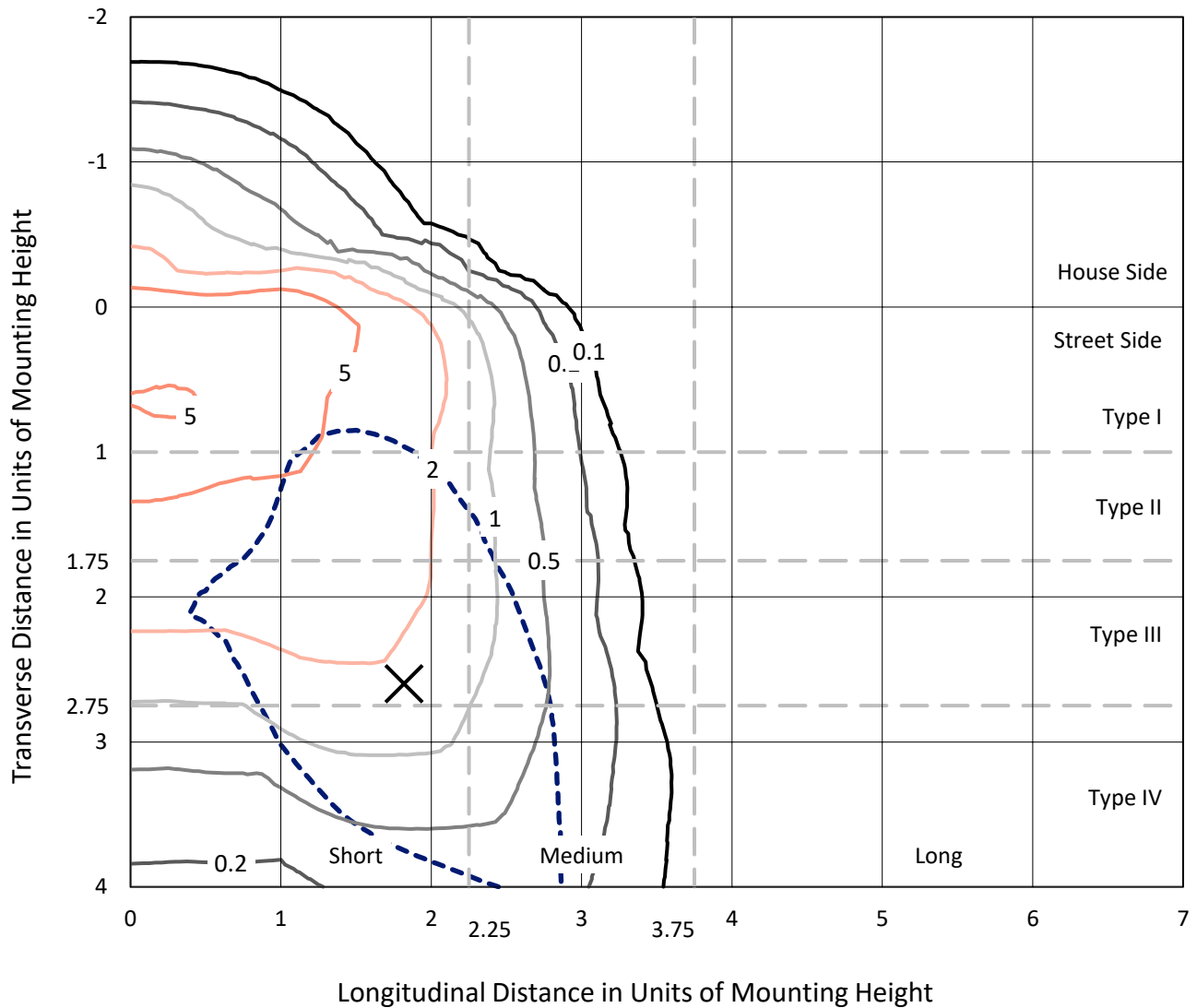
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

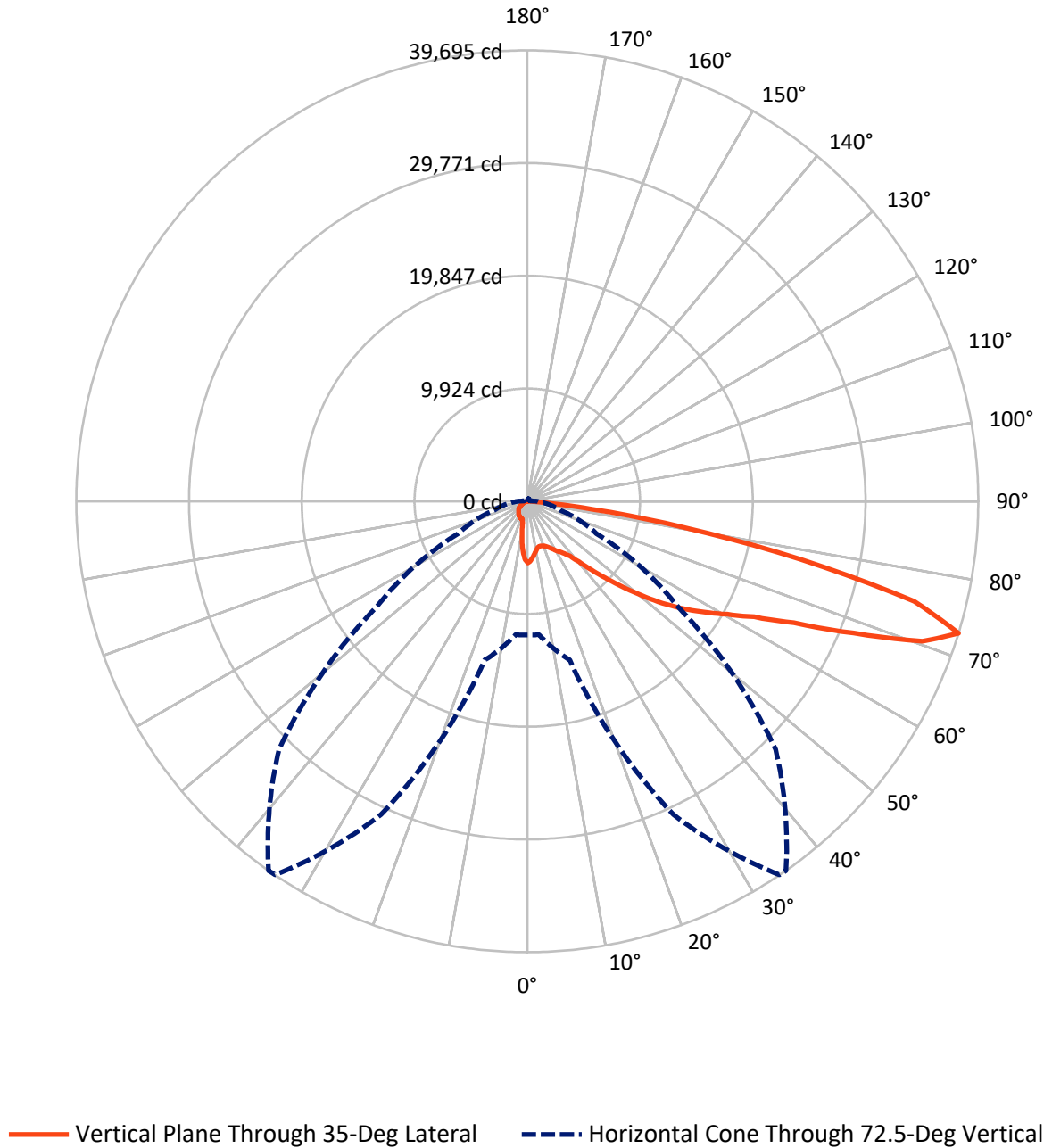
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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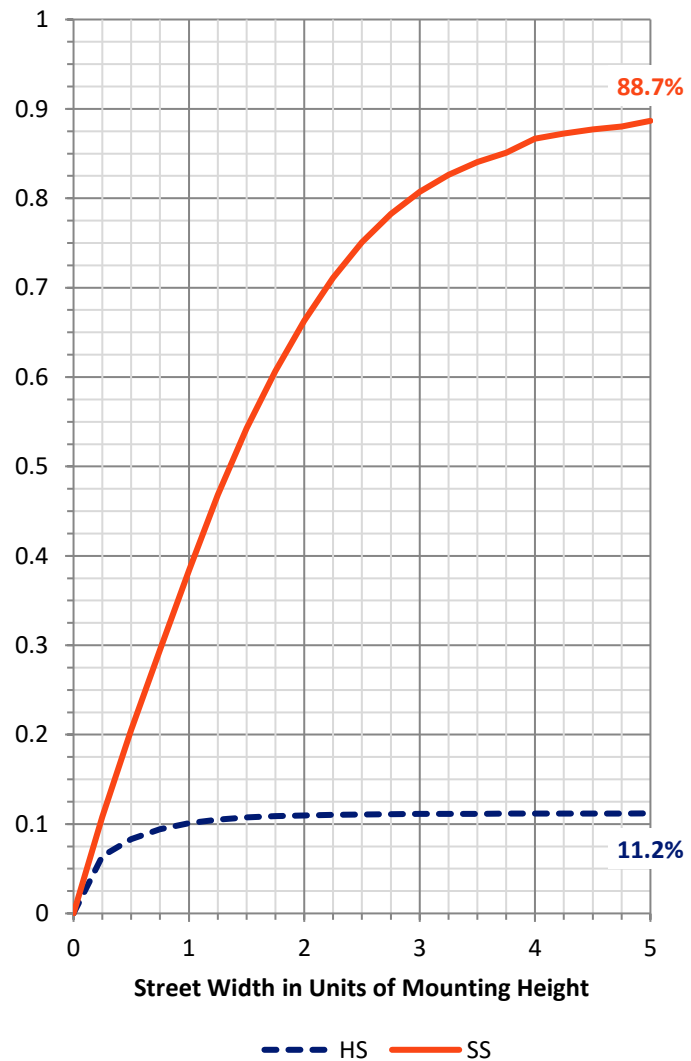
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.1	0.0	4212.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33213.9	0.0	33213.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	37426.0	0.0	37426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.7	1.2
10°-20°	1042.7	2.8
20°-30°	1693.9	4.5
30°-40°	2826.2	7.6
40°-50°	5347.3	14.3
50°-60°	8496.9	22.7
60°-70°	10511.3	28.1
70°-80°	6533.9	17.5
80°-90°	528.0	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°	37426.0	100.0
0°-180°	37426.0	100.0

Coefficient of Utilization



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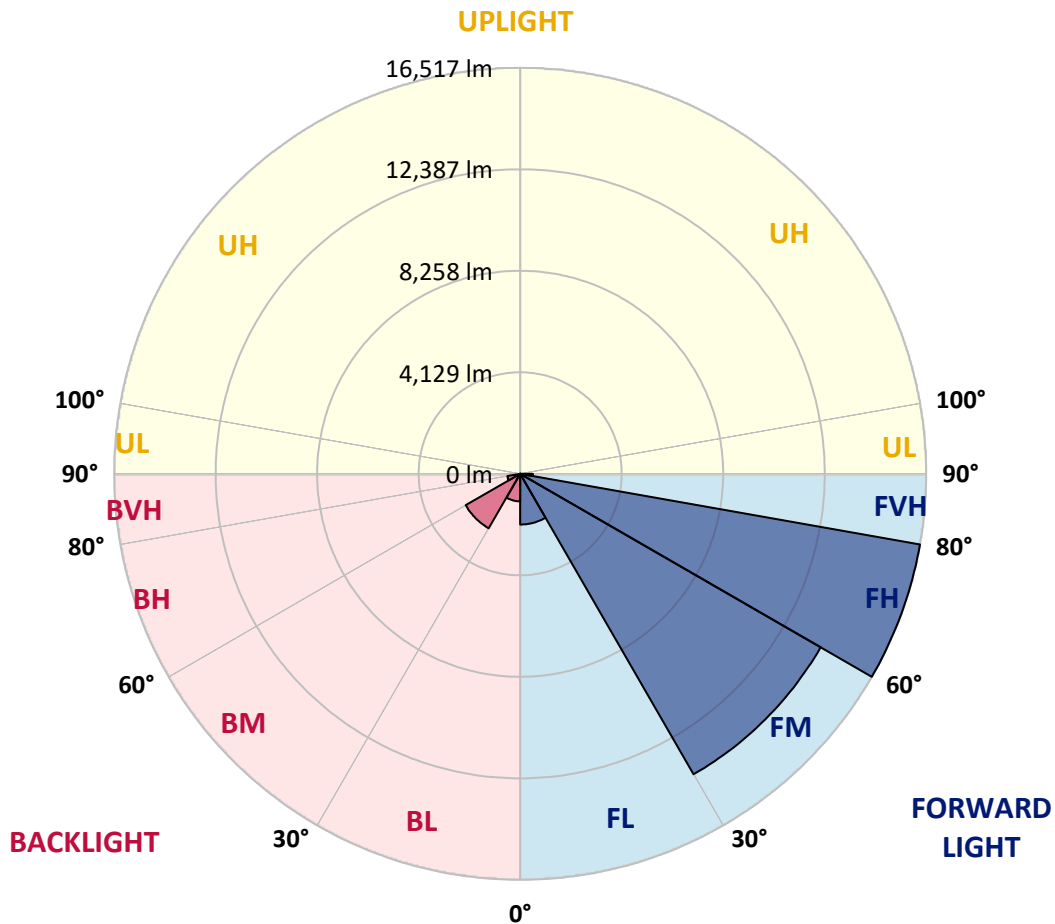
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2063.1	5.5			
FM (30°-60°)	14113.3	37.7			
FH (60°-80°)	16516.6	44.1			G5
FVH (80°-90°)	520.9	1.4			G4/750
BL (0°-30°)	1119.2	3.0	B3/2500		
BM (30°-60°)	2557.1	6.8	B3/5000		
BH (60°-80°)	528.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3
2.5°	5183.0	5226.8	5235.1	5248.8	5248.8	5265.2	5292.7	5331.0	5394.1	5427.0
5°	4777.1	4810.0	4851.1	4884.0	4947.1	4955.3	5062.3	5166.5	5311.8	5421.5
7.5°	4368.5	4406.9	4461.7	4541.3	4623.5	4648.2	4810.0	4985.5	5215.9	5421.5
10°	4080.6	4083.3	4132.7	4212.2	4343.8	4374.0	4571.4	4821.0	5108.9	5388.6
12.5°	3918.8	3938.0	3959.9	4020.2	4146.4	4165.6	4376.7	4670.1	5002.0	5369.4
15°	3918.8	3932.5	3946.2	3976.3	4077.8	4094.3	4280.7	4574.2	4947.1	5377.7
17.5°	3959.9	3981.8	3970.9	4006.5	4113.5	4124.4	4289.0	4546.7	4944.4	5429.8
20°	4058.6	4075.1	4053.1	4075.1	4182.0	4204.0	4374.0	4598.8	4991.0	5520.3
22.5°	4214.9	4223.2	4171.0	4187.5	4297.2	4324.6	4522.1	4746.9	5103.4	5665.6
25°	4412.4	4428.8	4349.3	4368.5	4472.7	4505.6	4733.2	4969.1	5281.7	5865.8
27.5°	4640.0	4648.2	4579.7	4576.9	4711.3	4757.9	4988.3	5243.3	5520.3	6118.1
30°	4900.5	4925.2	4859.4	4848.4	5018.4	5056.8	5284.4	5580.6	5871.3	6496.5
32.5°	5106.2	5125.4	5087.0	5114.4	5287.2	5317.3	5643.7	6057.8	6422.5	7034.0
35°	5402.3	5413.3	5325.6	5374.9	5572.4	5649.2	6134.5	6726.9	7116.3	7708.6
37.5°	6474.6	6474.6	6101.6	5857.6	6046.8	6115.3	6806.4	7568.8	7971.9	8613.6
40°	7958.2	7933.5	7387.8	6888.7	6864.0	6998.4	7763.5	8630.0	9077.0	9699.5
42.5°	9540.5	9502.1	8758.9	8265.3	8183.0	8229.7	8868.6	9938.1	10393.3	11024.1
45°	10944.5	10933.6	10253.5	9589.8	9441.8	9589.8	10248.0	11468.3	11794.7	12458.3
47.5°	12121.0	12121.0	11624.6	11191.4	11114.6	11202.3	12115.5	13165.8	13135.6	13985.8
50°	13475.7	13464.7	12993.0	12806.6	12886.1	13009.5	14265.5	14953.8	14523.3	15485.8
52.5°	14424.5	14490.3	14328.6	14298.4	14704.2	14918.1	16448.4	16703.4	15765.5	16909.1
55°	15175.9	15252.7	15439.2	15650.3	16431.9	16711.6	18562.7	18362.5	16804.9	18143.1
57.5°	16239.9	16130.2	16418.2	16835.0	18099.2	18436.5	20611.2	19928.3	17641.3	19144.0
60°	17531.6	17548.0	17597.4	18123.9	19763.8	20197.1	22629.5	21409.2	18178.7	19758.3
62.5°	19083.7	19108.4	19209.9	20018.8	21998.8	22407.4	24779.5	22621.3	18425.6	19585.6
65°	18976.8	19081.0	20213.5	22980.5	25396.5	25799.6	27288.7	23471.4	18052.6	18006.0
67.5°	17287.5	17457.5	19352.5	26518.1	30519.1	30968.9	30321.7	23638.7	16442.9	14002.2
70°	15071.7	15132.0	17410.9	29699.2	36450.7	36906.0	33036.6	21798.6	12477.5	7810.1
72.5°	11770.0	11783.7	14457.4	30436.9	39670.2	39694.9	30905.8	16182.4	6710.4	3000.1
75°	8407.9	8325.6	9683.1	24683.5	34901.3	35181.0	23169.7	7590.7	2564.1	1417.8
77.5°	4508.4	4598.8	5479.1	14638.4	24110.4	24587.5	12642.0	2188.4	1305.3	965.3
80°	1393.1	1469.9	2245.9	6702.2	13656.7	13944.6	4686.6	973.5	910.4	688.3
82.5°	438.8	455.2	1047.6	2816.3	5668.3	5800.0	1357.4	551.2	622.5	455.2
85°	126.1	128.9	466.2	1050.3	1401.3	1428.7	381.2	213.9	356.5	282.5
87.5°	13.7	43.9	175.5	175.5	123.4	120.7	41.1	46.6	101.5	35.6
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°
5424.3	0°	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3	5424.3
5449.0	2.5°	5435.3	5438.0	5402.3	5342.0	5276.2	5221.4	5152.8	5097.9	5059.6	5048.6
5498.3	5°	5473.6	5454.4	5353.0	5169.2	4949.9	4760.6	4549.5	4382.2	4272.5	4225.9
5550.4	7.5°	5531.2	5476.4	5254.3	4892.3	4472.7	4099.7	3721.3	3427.9	3241.4	3148.2
5599.8	10°	5580.6	5470.9	5089.7	4491.9	3850.2	3285.3	2775.2	2421.5	2224.0	2130.8
5657.4	12.5°	5627.2	5468.2	4875.8	4017.5	3148.2	2457.1	1982.7	1807.2	1752.3	1733.1
5750.6	15°	5715.0	5476.4	4607.1	3474.5	2448.9	1856.5	1683.8	1681.0	1692.0	1686.5
5893.2	17.5°	5835.6	5484.6	4302.7	2898.6	1889.4	1637.2	1628.9	1653.6	1670.1	1661.8
6071.5	20°	5991.9	5517.5	3979.1	2328.2	1623.4	1582.3	1601.5	1623.4	1637.2	1623.4
6310.0	22.5°	6211.3	5575.1	3625.3	1870.3	1538.4	1549.4	1565.9	1590.5	1604.2	1585.1
6614.4	25°	6480.1	5665.6	3277.1	1626.2	1497.3	1511.0	1535.7	1563.1	1579.6	1560.4
6998.4	27.5°	6828.3	5810.9	2956.2	1571.3	1456.2	1464.4	1500.0	1541.2	1563.1	1538.4
7544.1	30°	7332.9	6049.5	2679.2	1596.0	1431.5	1412.3	1461.6	1519.2	1543.9	1522.0
8287.3	32.5°	8002.1	6386.8	2509.2	1634.4	1420.5	1352.0	1398.6	1472.6	1513.8	1500.0
9258.0	35°	8879.6	6899.6	2443.4	1678.3	1412.3	1288.9	1321.8	1401.3	1472.6	1486.3
10481.1	37.5°	9943.6	7612.6	2462.6	1697.5	1387.6	1236.8	1253.2	1321.8	1415.0	1458.9
11857.7	40°	11153.0	8443.6	2572.3	1678.3	1360.2	1192.9	1195.6	1247.7	1330.0	1395.8
13338.6	42.5°	12400.7	9414.3	2775.2	1607.0	1335.5	1154.5	1146.3	1181.9	1236.8	1283.4
14816.7	45°	13588.1	10412.5	2975.4	1508.3	1305.3	1116.1	1096.9	1110.6	1121.6	1140.8
16256.4	47.5°	14624.7	11114.6	2917.8	1417.8	1264.2	1072.2	1039.3	1033.8	1000.9	998.2
17542.5	50°	15340.5	11268.1	2591.5	1327.3	1203.9	1022.9	970.8	937.9	880.3	852.9
18505.1	52.5°	15568.1	10662.1	2117.1	1236.8	1105.1	957.1	883.0	830.9	759.6	734.9
19059.0	55°	15266.4	9474.7	1692.0	1127.1	968.0	869.3	787.0	718.5	660.9	630.7
19119.4	57.5°	14528.7	7963.7	1338.2	998.2	822.7	770.6	688.3	619.8	570.4	540.2
18450.2	60°	13305.7	6323.8	1058.5	844.6	702.0	663.6	578.6	534.7	490.9	455.2
16722.6	62.5°	11449.1	4513.8	830.9	669.1	586.9	543.0	493.6	460.7	408.6	359.2
13615.6	65°	8934.4	2761.5	641.7	490.9	471.7	449.7	419.6	389.4	326.3	277.0
8882.3	67.5°	5635.4	1308.1	458.0	370.2	373.0	362.0	348.3	323.6	277.0	233.1
3979.1	70°	2481.8	633.5	301.7	282.5	277.0	277.0	287.9	279.7	235.8	194.7
1382.1	72.5°	844.6	340.0	224.9	213.9	200.2	197.4	241.3	233.1	189.2	150.8
688.3	75°	441.5	227.6	164.5	153.6	120.7	145.3	192.0	181.0	134.4	98.7
455.2	77.5°	287.9	161.8	112.4	98.7	68.6	96.0	142.6	126.1	79.5	49.4
298.9	80°	181.0	106.9	65.8	46.6	32.9	52.1	76.8	54.8	30.2	11.0
175.5	82.5°	96.0	54.8	24.7	16.5	13.7	16.5	19.2	13.7	5.5	0.0
90.5	85°	38.4	19.2	8.2	5.5	2.7	0.0	5.5	2.7	0.0	0.0
16.5	87.5°	13.7	2.7	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

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<u>180°</u>
5424.3
5067.8
4242.3
3161.9
2133.5
1727.7
1683.8
1659.1
1620.7
1582.3
1557.6
1538.4
1519.2
1500.0
1486.3
1469.9
1417.8
1302.6
1151.8
995.5
855.6
732.2
630.7
534.7
447.0
351.0
268.7
227.6
186.5
142.6
90.5
43.9
8.2
0.0
0.0
0.0
0.0

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