

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: P944656

Luminaire Tested: **GALN-SB9C-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37216 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

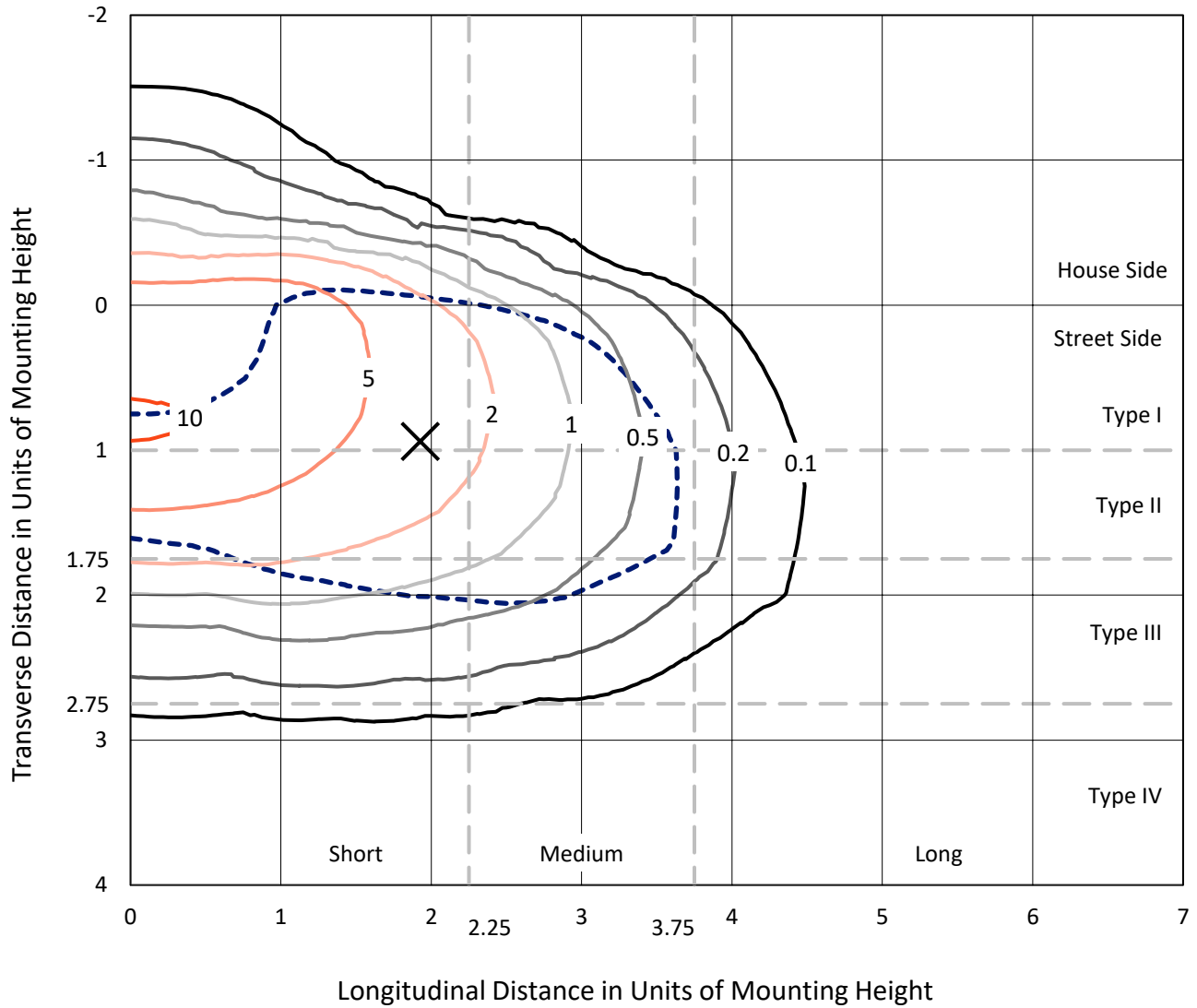
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

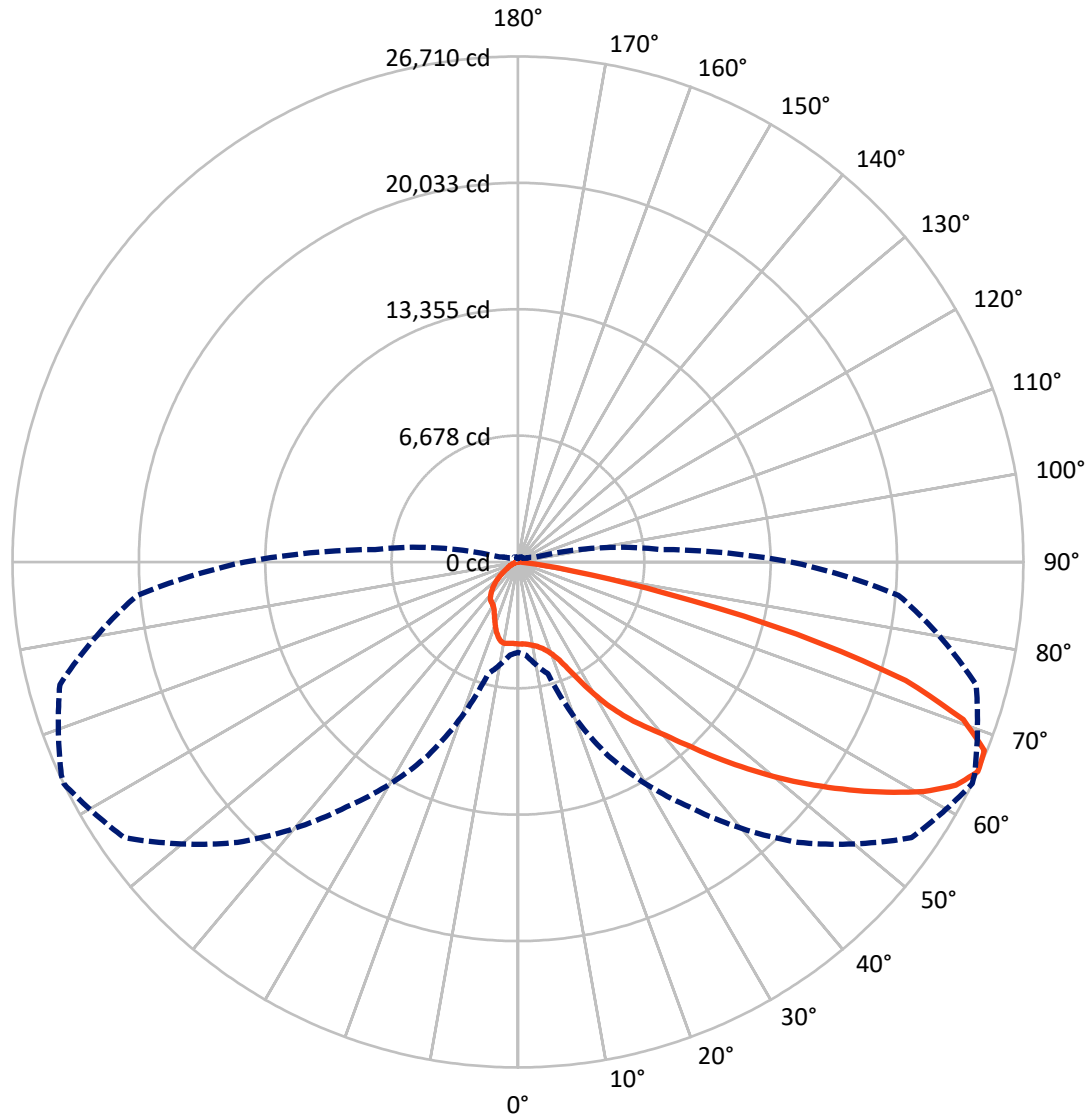
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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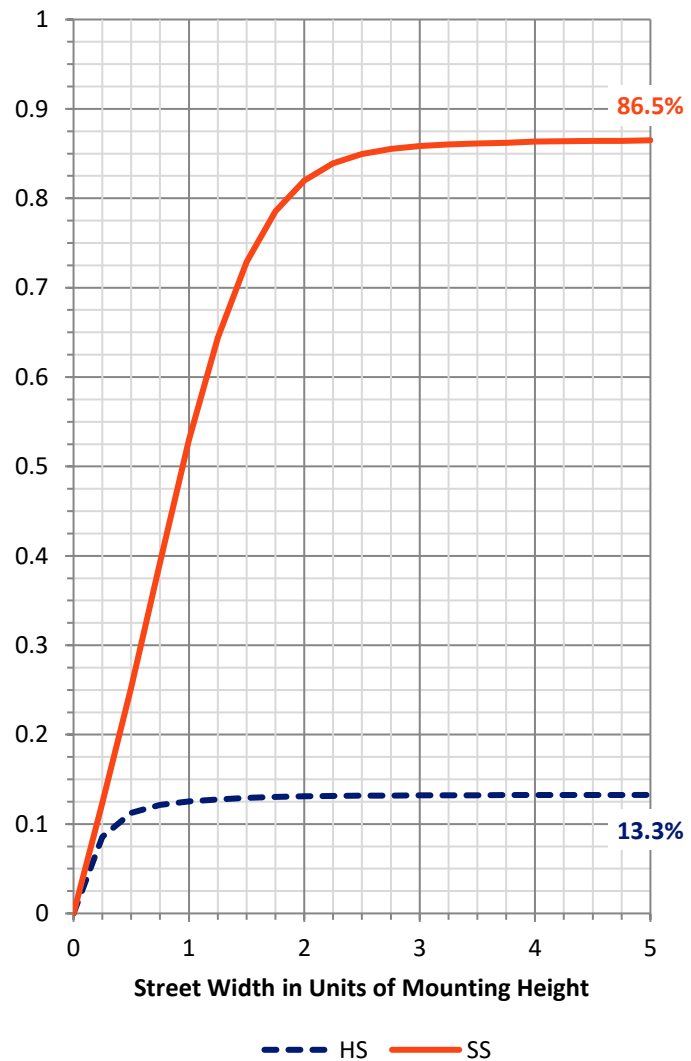
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4976.9	0.0	4976.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32239.1	0.0	32239.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	37216.0	0.0	37216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.1
10°-20°	1083.2	2.9
20°-30°	2052.5	5.5
30°-40°	4153.3	11.2
40°-50°	7075.2	19.0
50°-60°	9621.8	25.9
60°-70°	9035.3	24.3
70°-80°	3619.9	9.7
80°-90°	175.4	0.5
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°	37216.0	100.0
0°-180°	37216.0	100.0

Coefficient of Utilization



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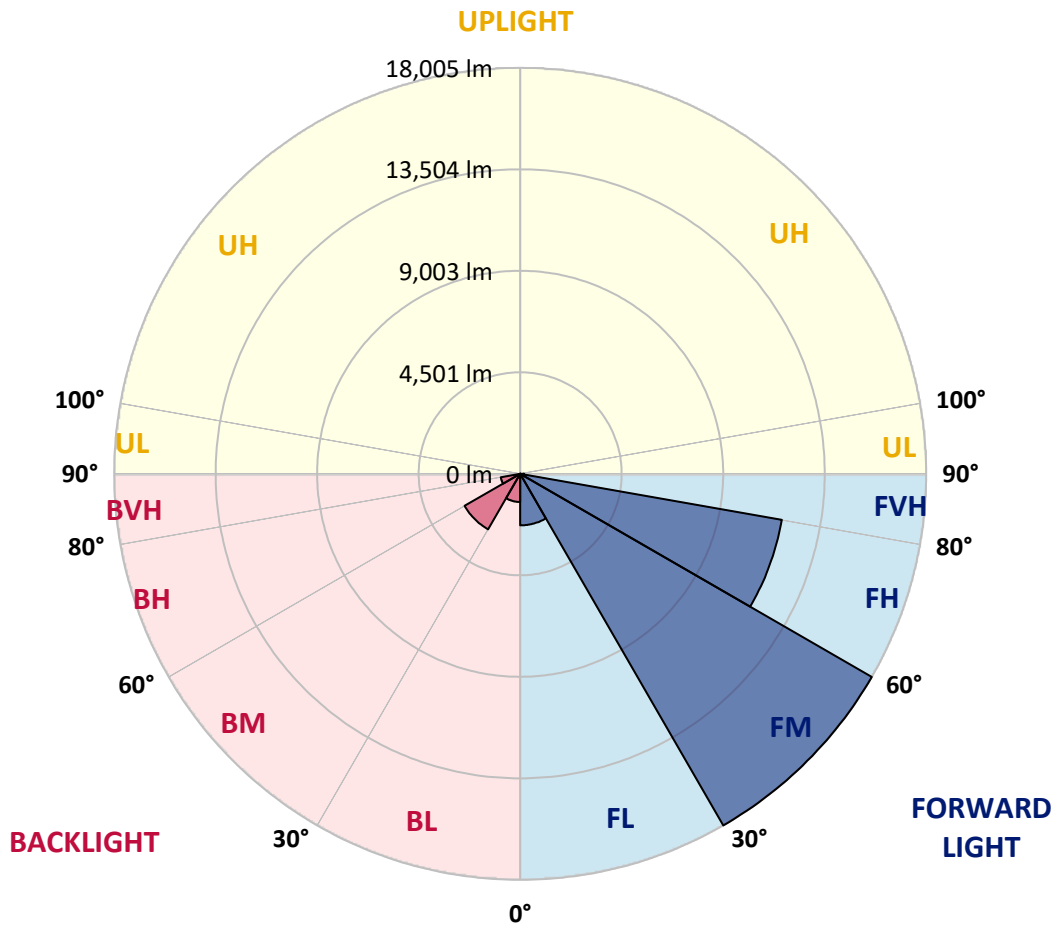
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.5	6.1			
FM (30°-60°)	18005.1	48.4			
FH (60°-80°)	11781.7	31.7			G4/12000
FVH (80°-90°)	166.8	0.4			G2/225
BL (0°-30°)	1249.6	3.4	B3/2500		
BM (30°-60°)	2845.3	7.6	B3/5000		
BH (60°-80°)	873.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6
2.5°	4313.6	4343.6	4336.1	4328.6	4326.1	4331.1	4333.6	4331.1	4331.1	4331.1
5°	4231.3	4256.3	4256.3	4273.7	4298.7	4328.6	4351.1	4356.1	4361.0	4368.5
7.5°	4074.1	4094.1	4109.1	4166.4	4228.8	4308.6	4376.0	4410.9	4415.9	4443.4
10°	3966.9	3991.8	4016.7	4076.6	4166.4	4286.2	4401.0	4485.8	4498.3	4563.1
12.5°	3961.9	3986.8	4019.2	4084.1	4188.9	4316.1	4455.8	4578.1	4600.5	4695.4
15°	4014.3	4044.2	4074.1	4154.0	4266.2	4420.9	4570.6	4722.8	4745.3	4880.0
17.5°	4121.5	4161.5	4183.9	4263.7	4383.5	4555.6	4752.7	4927.4	4947.3	5104.5
20°	4333.6	4381.0	4388.5	4453.4	4570.6	4755.2	4989.7	5206.8	5231.8	5411.4
22.5°	4772.7	4840.1	4780.2	4812.6	4917.4	5102.0	5356.5	5630.9	5665.9	5870.4
25°	5546.1	5640.9	5486.2	5431.3	5476.2	5668.4	5987.7	6334.5	6374.4	6539.1
27.5°	7065.5	6943.2	6708.7	6479.2	6344.5	6454.2	6813.5	7242.6	7292.5	7452.2
30°	8734.6	8627.3	8310.4	7801.5	7482.1	7464.7	7796.5	8275.5	8332.9	8485.1
32.5°	10406.1	10303.8	9959.5	9333.3	8779.5	8505.0	8734.6	9266.0	9295.9	9393.2
35°	12050.2	11945.5	11601.2	10960.0	10278.9	9655.2	9610.3	10209.0	10219.0	10321.3
37.5°	13704.3	13617.0	13250.3	12621.6	11950.4	11089.7	10673.1	11102.2	11114.7	11214.5
40°	14884.4	14921.8	14669.9	14183.4	13607.0	12666.5	11865.6	12052.7	11977.9	12145.0
42.5°	15897.3	15972.2	15752.6	15508.1	15173.8	14345.5	13342.6	13310.2	13190.4	13280.2
45°	16773.0	16835.4	16638.3	16580.9	16573.5	15992.1	14956.8	14762.2	14595.0	14577.6
47.5°	17094.9	17214.6	17299.5	17491.6	17865.8	17621.3	16625.8	16324.0	16136.8	15999.6
50°	17217.1	17344.4	17633.8	18192.6	19078.3	19183.1	18287.4	17948.1	17718.6	17469.1
52.5°	17052.5	17279.5	17668.7	18609.3	19894.1	20435.5	19881.7	19584.8	19322.8	18916.1
55°	16082.0	16309.0	17104.9	18604.3	20300.8	21313.7	21388.6	21256.3	20961.9	20320.8
57.5°	14036.2	14373.0	15632.9	17970.6	20293.3	22069.7	22865.5	22960.3	22631.0	21712.9
60°	11202.0	11658.5	13195.4	16566.0	19667.1	22478.8	24160.4	24634.4	24285.1	23085.1
62.5°	7816.4	8345.4	9799.9	14365.5	18235.0	22184.4	25105.9	25981.6	25717.2	24312.6
65°	4767.7	4937.4	6109.9	11304.3	15800.0	20952.0	25397.8	26710.1	26622.8	25063.5
67.5°	3176.0	3318.2	3655.0	7751.6	12264.8	18489.5	24699.3	26582.9	26607.8	24941.3
70°	1913.6	2035.8	2255.4	4508.2	7948.7	14634.9	22536.2	24961.2	25105.9	23307.1
72.5°	788.4	870.7	1070.3	2043.3	4116.5	9288.4	17945.6	21431.0	21767.8	19597.2
75°	446.6	489.0	628.7	1025.4	1786.3	4328.6	10870.2	15213.7	15710.2	13507.3
77.5°	296.9	316.8	406.7	663.6	1005.4	1477.0	4645.5	7926.2	8874.3	7377.3
80°	199.6	217.1	279.4	444.1	653.7	633.7	1479.5	2936.5	3612.6	2534.8
82.5°	134.7	137.2	199.6	291.9	414.1	306.9	436.6	913.1	1147.6	733.5
85°	77.3	74.8	147.2	169.7	184.6	127.2	132.2	274.4	359.3	309.4
87.5°	10.0	15.0	57.4	44.9	24.9	27.4	27.4	47.4	69.9	74.8
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°
4328.6	0°	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6	4328.6
4333.6	2.5°	4333.6	4331.1	4323.6	4316.1	4298.7	4288.7	4293.7	4288.7	4286.2	4288.7
4366.0	5°	4366.0	4358.5	4338.6	4313.6	4278.7	4236.3	4208.9	4168.9	4131.5	4109.1
4453.4	7.5°	4453.4	4445.9	4418.4	4348.6	4236.3	4059.2	3897.0	3754.8	3647.5	3585.1
4593.1	10°	4593.1	4580.6	4538.2	4383.5	4089.1	3702.4	3380.6	3113.6	2939.0	2856.6
4757.7	12.5°	4757.7	4742.8	4667.9	4351.1	3809.7	3205.9	2761.8	2464.9	2302.8	2230.4
4947.3	15°	4952.3	4932.4	4785.2	4196.4	3403.0	2657.0	2250.4	2028.3	1923.5	1858.7
5189.3	17.5°	5194.3	5159.4	4872.5	3964.4	2961.4	2237.9	1936.0	1768.9	1676.6	1614.2
5506.2	20°	5508.7	5451.3	4942.3	3687.4	2554.8	1973.4	1724.0	1584.2	1514.4	1459.5
5955.3	22.5°	5947.8	5865.4	5027.2	3388.0	2267.8	1791.3	1566.8	1464.5	1407.1	1344.7
6581.5	25°	6491.7	6394.4	5132.0	3111.1	2070.7	1634.1	1452.0	1367.2	1299.8	1227.5
7402.3	27.5°	7252.6	7078.0	5256.7	2884.1	1901.1	1499.4	1347.2	1252.4	1175.1	1115.2
8332.9	30°	8100.9	7813.9	5366.5	2746.9	1746.4	1374.7	1210.0	1115.2	1042.9	1000.4
9168.7	32.5°	8904.2	8515.0	5438.8	2687.0	1606.7	1232.5	1060.3	958.0	903.1	890.7
9987.0	35°	9662.6	9148.7	5431.3	2629.6	1482.0	1090.3	913.1	808.3	765.9	773.4
10867.7	37.5°	10535.9	9824.8	5378.9	2539.8	1379.7	960.5	785.9	693.6	656.2	658.6
11938.0	40°	11551.3	10605.7	5346.5	2370.1	1267.4	840.8	681.1	606.3	578.8	568.8
13065.7	42.5°	12634.0	11361.7	5351.5	2178.0	1127.7	733.5	608.7	546.4	521.4	513.9
14320.6	45°	13721.8	12082.7	5359.0	1978.4	980.5	651.2	556.4	504.0	489.0	479.0
15593.0	47.5°	14744.7	12696.4	5219.3	1763.9	835.8	588.8	513.9	479.0	466.5	454.1
16870.3	50°	15697.8	13105.6	4882.5	1514.4	721.0	538.9	481.5	456.6	444.1	431.6
18028.0	52.5°	16438.7	13170.4	4326.1	1257.4	641.2	501.5	461.6	439.1	424.1	411.7
18963.5	55°	16768.1	12763.8	3535.2	1017.9	578.8	469.0	441.6	419.1	401.7	389.2
19699.5	57.5°	16683.2	11908.0	2756.8	818.3	518.9	436.6	416.6	401.7	381.7	361.8
20295.8	60°	16266.6	10762.9	2078.2	681.1	464.0	401.7	389.2	376.7	349.3	319.3
20525.3	62.5°	15545.6	9323.3	1482.0	563.8	404.2	361.8	356.8	346.8	306.9	252.0
20186.0	65°	14442.8	7574.4	997.9	469.0	346.8	316.8	319.3	301.9	249.5	187.1
18943.6	67.5°	12831.1	5538.6	638.7	384.2	289.4	264.5	267.0	257.0	212.1	159.7
16588.4	70°	10777.9	3667.5	416.6	291.9	232.0	204.6	219.5	222.0	179.6	129.7
12731.3	72.5°	7901.3	2165.6	291.9	217.1	169.7	142.2	179.6	184.6	144.7	97.3
7659.3	75°	4503.2	1027.9	219.5	157.2	104.8	99.8	139.7	139.7	99.8	64.9
3315.7	77.5°	1891.1	429.1	154.7	102.3	59.9	57.4	94.8	87.3	49.9	29.9
808.3	80°	546.4	192.1	82.3	49.9	24.9	22.5	37.4	27.4	12.5	5.0
306.9	82.5°	214.6	84.8	32.4	20.0	10.0	10.0	5.0	0.0	0.0	0.0
174.6	85°	127.2	34.9	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
37.4	87.5°	32.4	7.5	5.0	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>
4328.6
4298.7
4114.0
3587.6
2849.1
2222.9
1861.2
1609.2
1449.5
1334.8
1220.0
1102.7
993.0
898.2
773.4
668.6
566.3
511.4
479.0
454.1
431.6
409.2
386.7
359.3
314.4
247.0
182.1
152.2
124.7
92.3
59.9
29.9
5.0
0.0
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