

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: P957383

Luminaire Tested: **GALN-SB9D-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 93929 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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

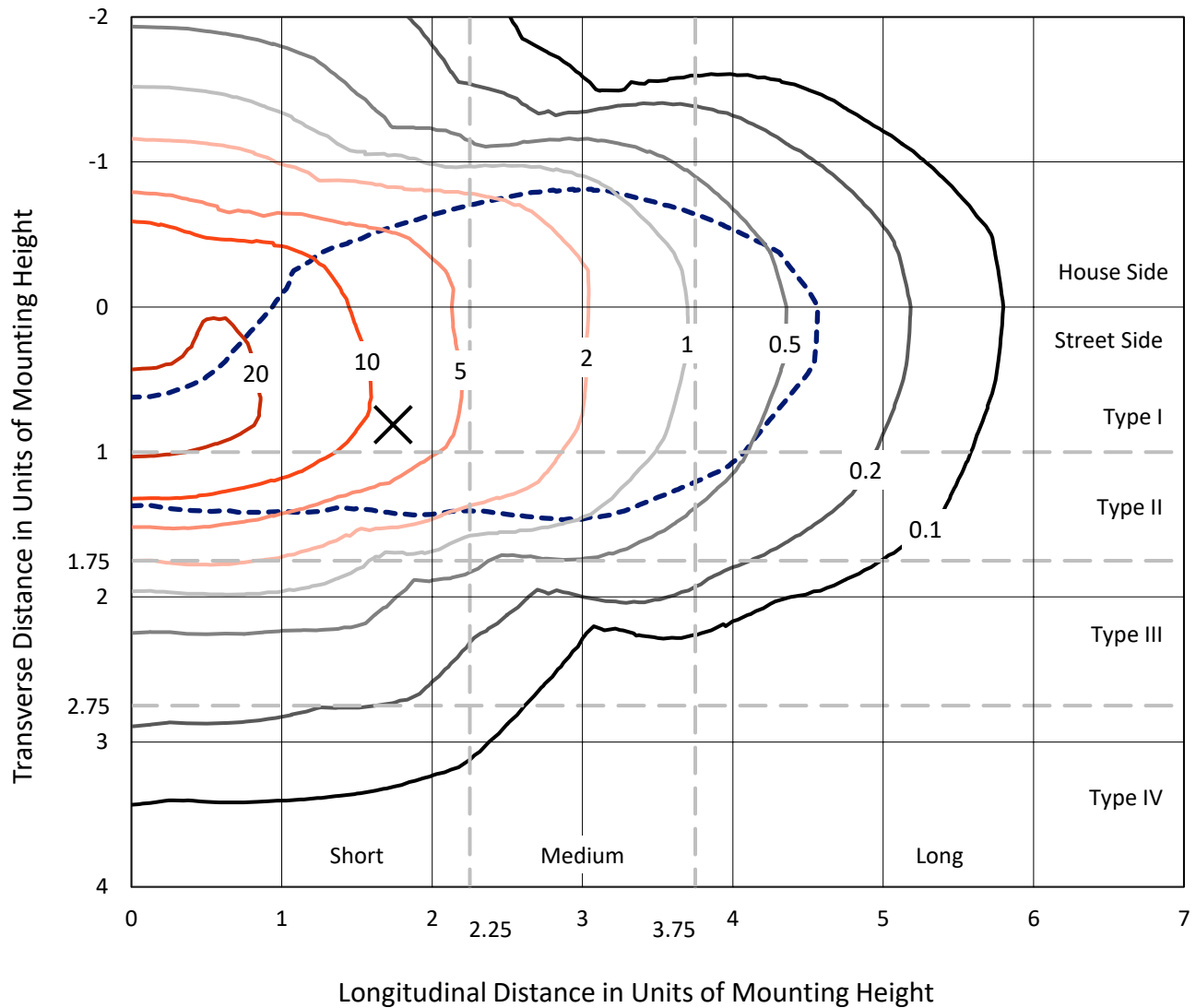


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

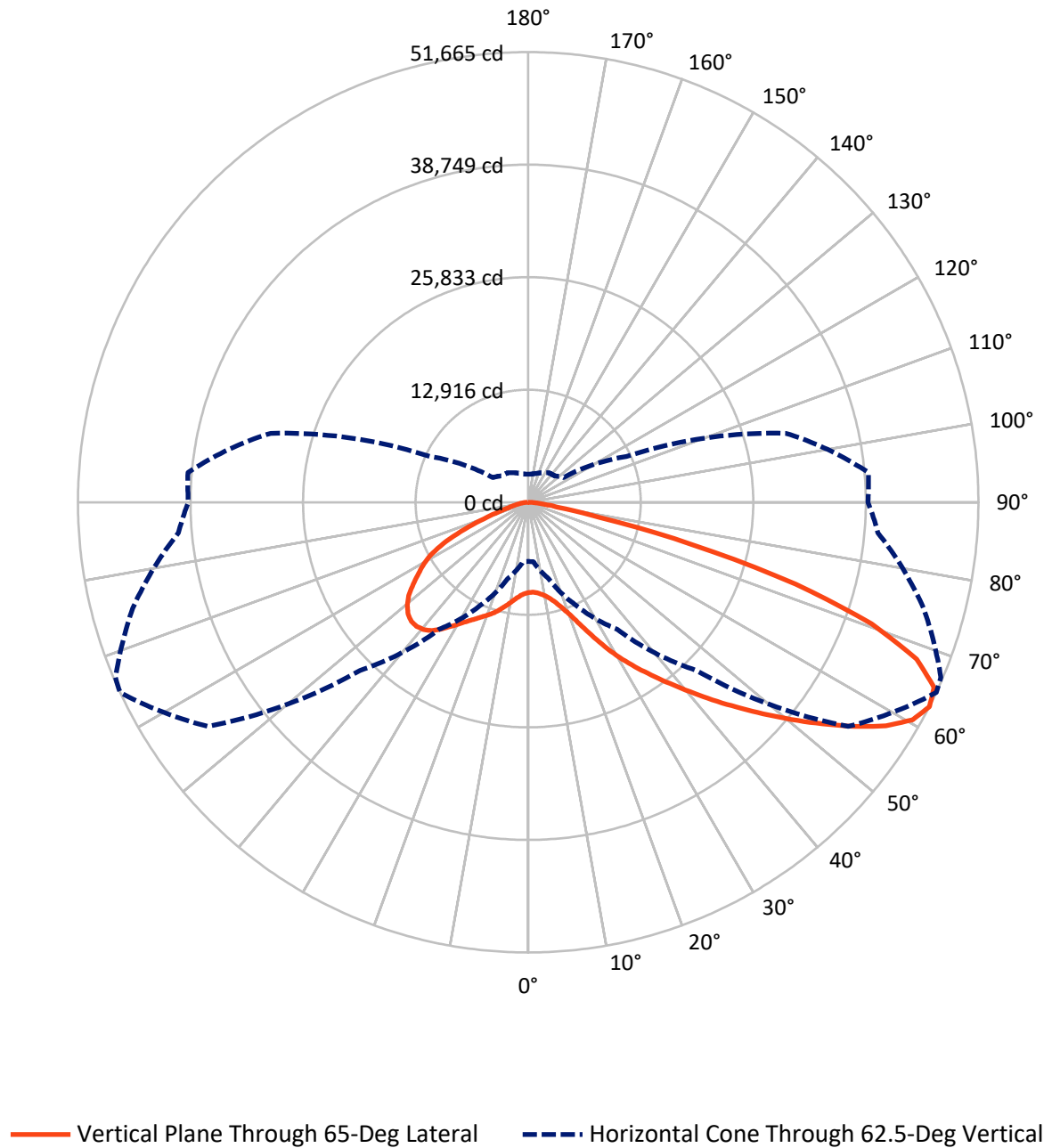


Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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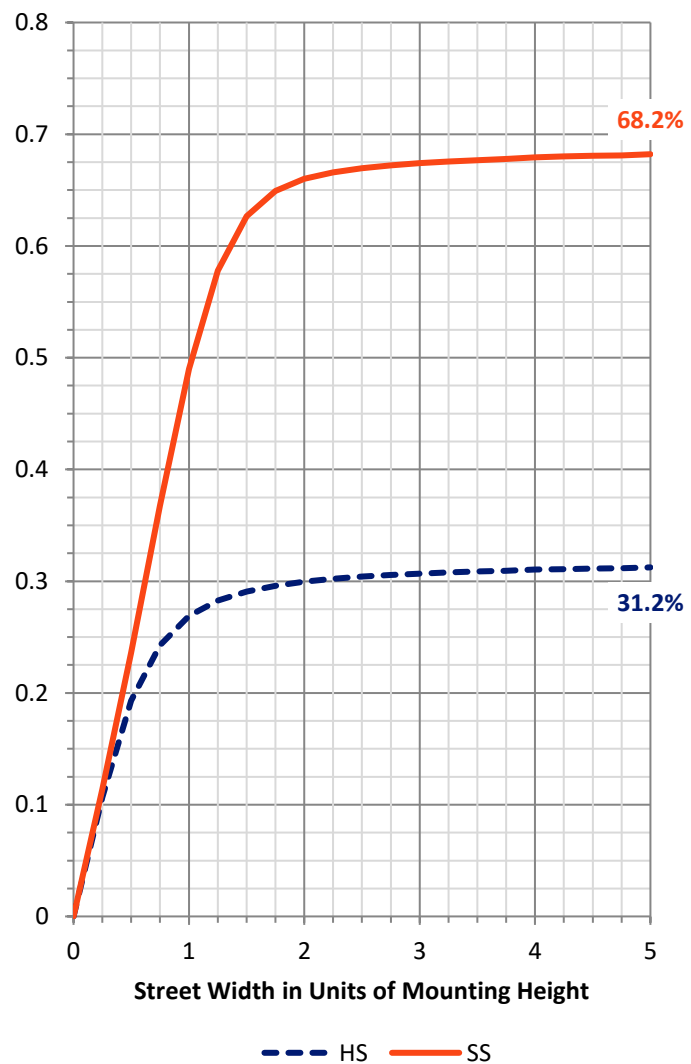
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29639.9	0.0	29639.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	64289.1	0.0	64289.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	93929.0	0.0	93929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.9	1.1
10°-20°	3499.4	3.7
20°-30°	7095.4	7.6
30°-40°	12278.5	13.1
40°-50°	18581.1	19.8
50°-60°	21785.2	23.2
60°-70°	18264.3	19.4
70°-80°	10083.4	10.7
80°-90°	1309.8	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°	93929.0	100.0
0°-180°	93929.0	100.0

Coefficient of Utilization



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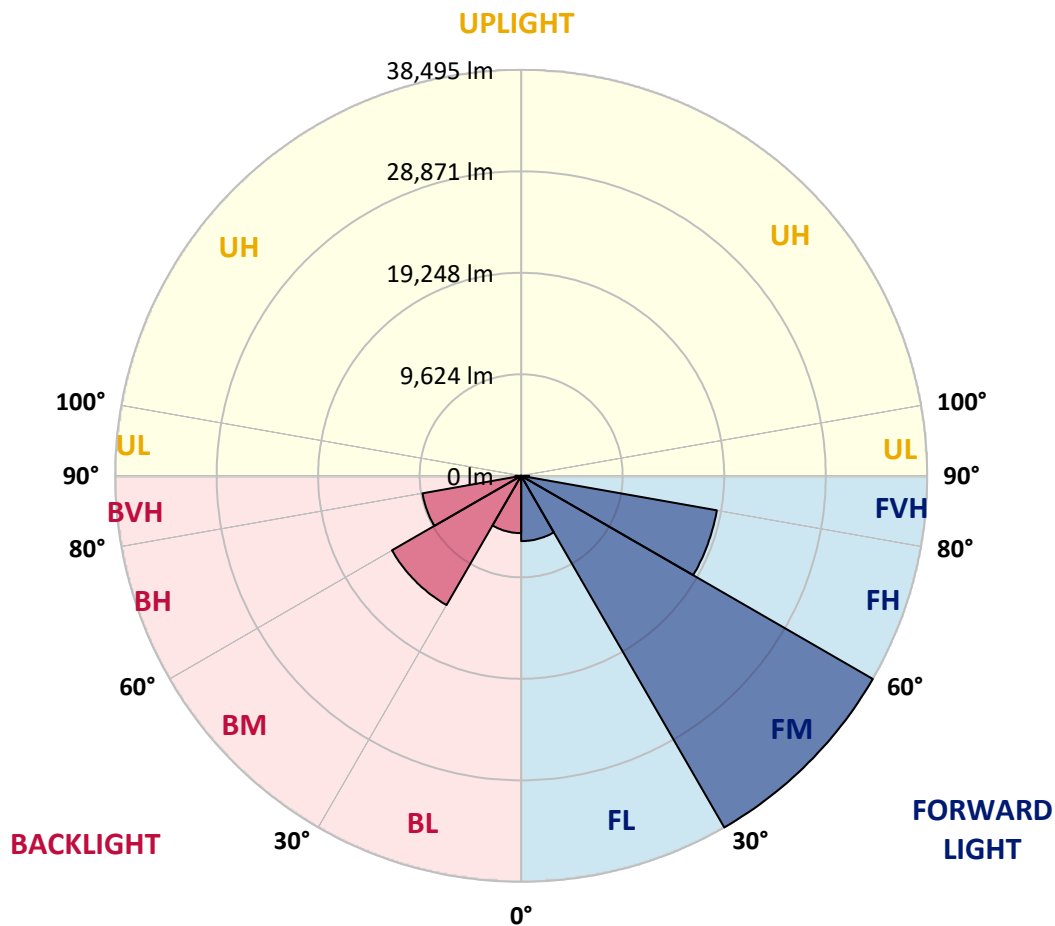
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6191.2	6.6			
FM	(30°-60°)	38495.2	41.0			
FH	(60°-80°)	18839.4	20.1			G5
FVH	(80°-90°)	763.4	0.8			G5
BL	(0°-30°)	5435.6	5.8	B5		
BM	(30°-60°)	14149.7	15.1	B5		
BH	(60°-80°)	9508.2	10.1	B5		G5
BVH	(80°-90°)	546.4	0.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6
2.5°	10282.3	10253.1	10277.5	10277.5	10287.2	10282.3	10316.5	10326.2	10340.8	10370.1
5°	10180.0	10175.1	10219.0	10258.0	10297.0	10331.1	10374.9	10438.3	10448.0	10482.1
7.5°	10145.9	10116.7	10184.9	10233.6	10326.2	10409.0	10526.0	10633.2	10677.1	10691.7
10°	10409.0	10360.3	10423.7	10452.9	10530.9	10613.7	10750.2	10920.7	10969.5	11027.9
12.5°	10857.4	10803.8	10896.4	10940.2	11013.3	11086.4	11179.0	11344.7	11369.1	11476.3
15°	11471.4	11408.0	11466.5	11520.1	11642.0	11710.2	11802.8	11963.6	11963.6	12046.4
17.5°	12304.7	12221.9	12265.7	12285.2	12363.2	12465.5	12621.5	12762.8	12835.9	12806.6
20°	13547.4	13445.0	13445.0	13347.6	13318.3	13401.2	13605.8	13800.8	13878.7	13727.7
22.5°	15413.8	15267.6	15184.7	14853.4	14721.8	14731.5	14936.2	15175.0	15238.3	14970.3
25°	17787.0	17558.0	17445.9	16958.6	16661.3	16403.0	16563.8	16870.8	16958.6	16627.2
27.5°	20160.2	20174.8	20067.6	19482.8	18990.7	18518.0	18435.1	18756.8	18849.3	18474.1
30°	23488.6	23142.6	22937.9	22236.2	21534.4	20871.7	20530.6	20662.2	20686.5	20238.2
32.5°	26358.9	26271.1	25832.6	25218.5	24317.0	23279.0	22708.9	22499.3	22460.3	21822.0
35°	29628.7	29580.0	29117.1	28386.1	27411.5	25969.0	24940.8	24341.4	24292.6	23396.0
37.5°	32952.2	32952.2	32499.0	31699.8	30691.1	28888.0	27323.7	26373.5	26217.5	25048.0
40°	35603.2	35442.4	35525.3	35189.0	34034.1	32118.9	29969.9	28590.8	28381.2	26977.8
42.5°	37109.0	37055.4	37552.5	37927.7	37455.0	35924.9	32884.0	30993.2	30700.8	29102.4
45°	37445.3	37386.8	38273.7	39647.9	40310.7	39682.1	36051.6	33522.4	33166.7	31324.6
47.5°	36670.4	36553.5	37854.6	40023.2	42147.9	43254.1	39482.3	36266.0	35749.4	33488.3
50°	34341.1	34229.0	36197.8	39077.8	42766.8	45680.9	43205.3	39175.2	38385.8	35807.9
52.5°	29277.9	29331.5	32416.2	36373.2	41952.9	47191.6	46411.9	42240.5	41290.2	38181.1
55°	22806.3	22923.3	26714.6	31071.2	38697.7	46962.5	48599.9	45398.3	44452.9	40413.0
57.5°	16329.9	16846.5	20399.0	24711.7	32445.4	43332.0	49077.5	48400.1	47484.0	42849.6
60°	10584.5	10677.1	14331.9	18678.8	24706.9	36880.0	48107.7	50675.9	49959.5	45334.9
62.5°	6783.4	6846.8	9073.8	13064.9	17782.1	27284.8	44842.7	51665.1	51445.8	46977.2
65°	4985.2	4936.5	6096.3	8635.2	11978.2	16827.0	38502.8	51187.6	51621.3	48005.4
67.5°	4161.7	4093.4	4663.6	5979.4	8825.3	9556.2	28488.4	48083.4	49672.0	47888.4
70°	3791.3	3732.8	4078.8	4439.4	6885.8	6398.4	14361.2	41801.9	44248.2	46558.1
72.5°	3211.4	3109.1	3581.8	3942.4	5355.6	4907.3	5935.5	32109.2	35091.5	42294.1
75°	2490.2	2422.0	2826.4	3469.7	4025.2	3830.3	3752.3	19497.5	22752.7	32708.6
77.5°	1973.6	1881.0	2251.4	2704.6	3620.7	2889.8	2733.8	8396.4	11622.5	20881.4
80°	1486.3	1403.5	1710.5	2139.3	2782.6	2178.3	1769.0	3425.8	4381.0	10579.6
82.5°	1057.5	984.4	1193.9	1569.2	1871.3	1954.1	1086.7	1920.0	2158.8	4078.8
85°	677.4	633.5	799.2	984.4	1189.0	1257.3	662.7	1003.9	1101.3	1681.2
87.5°	370.4	302.1	428.8	458.1	550.7	501.9	316.8	365.5	394.7	609.1
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°
10350.6	0°	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6	10350.6
10370.1	2.5°	10389.6	10404.2	10452.9	10467.5	10501.6	10545.5	10574.7	10604.0	10604.0	10633.2
10526.0	5°	10530.9	10565.0	10667.3	10720.9	10808.6	10896.4	10950.0	11013.3	11052.3	11071.8
10774.5	7.5°	10803.8	10857.4	11003.6	11096.2	11247.2	11369.1	11451.9	11539.6	11559.1	11612.7
11120.5	10°	11174.1	11237.5	11403.2	11578.6	11758.9	11910.0	11987.9	12051.3	12075.7	12085.4
11564.0	12.5°	11598.1	11690.7	11905.1	12119.5	12309.6	12441.1	12460.6	12446.0	12377.8	12319.3
12109.8	15°	12119.5	12202.4	12441.1	12675.1	12860.2	12884.6	12762.8	12684.8	12602.0	12587.3
12718.9	17.5°	12743.3	12787.1	13006.4	13235.5	13250.1	13167.2	12986.9	12913.8	12835.9	12782.3
13513.2	20°	13469.4	13454.8	13610.7	13708.2	13605.8	13352.4	13079.5	12957.7	12879.7	12816.4
14487.9	22.5°	14336.8	14224.7	14205.2	14180.9	13908.0	13376.8	13006.4	12850.5	12728.7	12640.9
15847.5	25°	15598.9	15170.1	14872.9	14707.2	14093.1	13245.2	12772.5	12426.5	12197.5	12046.4
17509.2	27.5°	17177.9	16456.6	15706.2	15301.7	14093.1	12977.2	12207.2	11646.8	11271.6	11115.7
19117.4	30°	18683.7	17928.3	16822.1	16018.0	14059.0	12538.6	11296.0	10516.3	10077.7	9921.7
20491.6	32.5°	19970.2	19146.6	18006.3	16802.6	13976.2	11827.1	10165.4	9302.8	8878.9	8693.7
21851.2	35°	21164.1	20286.9	19195.3	17665.2	13756.9	10784.3	8922.7	8264.9	7792.2	7494.9
23235.2	37.5°	22387.2	21344.4	20321.0	18444.9	13362.2	9566.0	7967.6	7407.2	6851.6	6452.0
24706.9	40°	23717.6	22470.1	21524.7	18907.8	12714.0	8406.2	7226.9	6715.2	6125.5	5701.6
26402.7	42.5°	25272.2	23820.0	22864.8	19146.6	11827.1	7582.6	6744.4	6242.5	5687.0	5341.0
28220.4	45°	26894.9	25306.3	24088.0	19141.7	10837.9	7197.6	6588.5	6091.4	5477.4	5116.8
30086.8	47.5°	28595.6	26860.8	25145.4	18829.8	9980.2	7251.2	6500.8	5764.9	5087.6	4736.7
31972.7	50°	30301.2	28561.5	26168.8	18245.1	9614.7	7134.3	6174.3	5306.9	4507.7	4190.9
33741.7	52.5°	31992.2	30369.5	27050.9	17411.8	9244.4	6700.6	5755.2	4712.3	4268.9	4049.6
35569.1	55°	33693.0	32157.9	28010.9	16198.3	8318.5	6193.8	5053.5	4488.2	4078.8	3879.0
37357.6	57.5°	35398.6	34224.1	28922.1	14984.9	7153.8	5570.0	4668.5	4215.3	3888.8	3718.2
38853.6	60°	37172.4	36587.6	29862.7	13869.0	6003.7	4770.8	4385.8	3996.0	3664.6	3474.6
40291.2	62.5°	38999.8	39189.9	30598.5	12431.4	4946.2	4283.5	4132.4	3732.8	3411.2	3230.9
41480.2	65°	40841.9	41699.5	31080.9	10438.3	4010.6	3820.5	3859.5	3445.3	3118.8	2962.9
42352.5	67.5°	42230.7	43507.5	30944.5	7899.4	3289.4	3382.0	3518.4	3143.2	2836.2	2714.3
42211.2	70°	42386.7	43293.1	29599.5	5409.2	2753.3	2953.1	3138.3	2845.9	2529.2	2441.4
40223.0	72.5°	40310.7	40369.2	25852.1	3533.0	2329.4	2592.5	2738.7	2543.8	2236.8	2149.1
35189.0	75°	34867.4	33385.9	18980.9	2329.4	1949.3	2227.0	2363.5	2227.0	1929.8	1949.3
26329.6	77.5°	26417.3	23644.5	11525.0	1656.9	1627.6	1871.3	2056.5	1959.0	1705.6	1915.1
13240.3	80°	13610.7	12792.0	5141.2	1237.8	1286.5	1496.1	1691.0	1564.3	1349.9	1286.5
2958.0	82.5°	3118.8	3625.6	2027.2	886.9	930.8	1077.0	1291.4	1174.4	969.8	818.7
1232.9	85°	1091.6	1193.9	896.7	555.5	545.8	672.5	877.2	784.6	657.9	526.3
521.4	87.5°	346.0	453.2	336.2	224.2	233.9	302.1	404.5	370.4	307.0	199.8
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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180°
10350.6
10633.2
11081.5
11593.2
12061.0
12319.3
12587.3
12787.1
12821.3
12670.2
12104.9
11193.6
10014.3
8786.3
7592.4
6559.3
5784.4
5409.2
5175.3
4785.4
4210.4
4049.6
3859.5
3689.0
3459.9
3226.0
2958.0
2719.2
2446.3
2144.2
1881.0
1686.1
1174.4
808.9
555.5
209.5
0.0

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