

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: P941355

Luminaire Tested: **GALN-SB4D-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37482 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

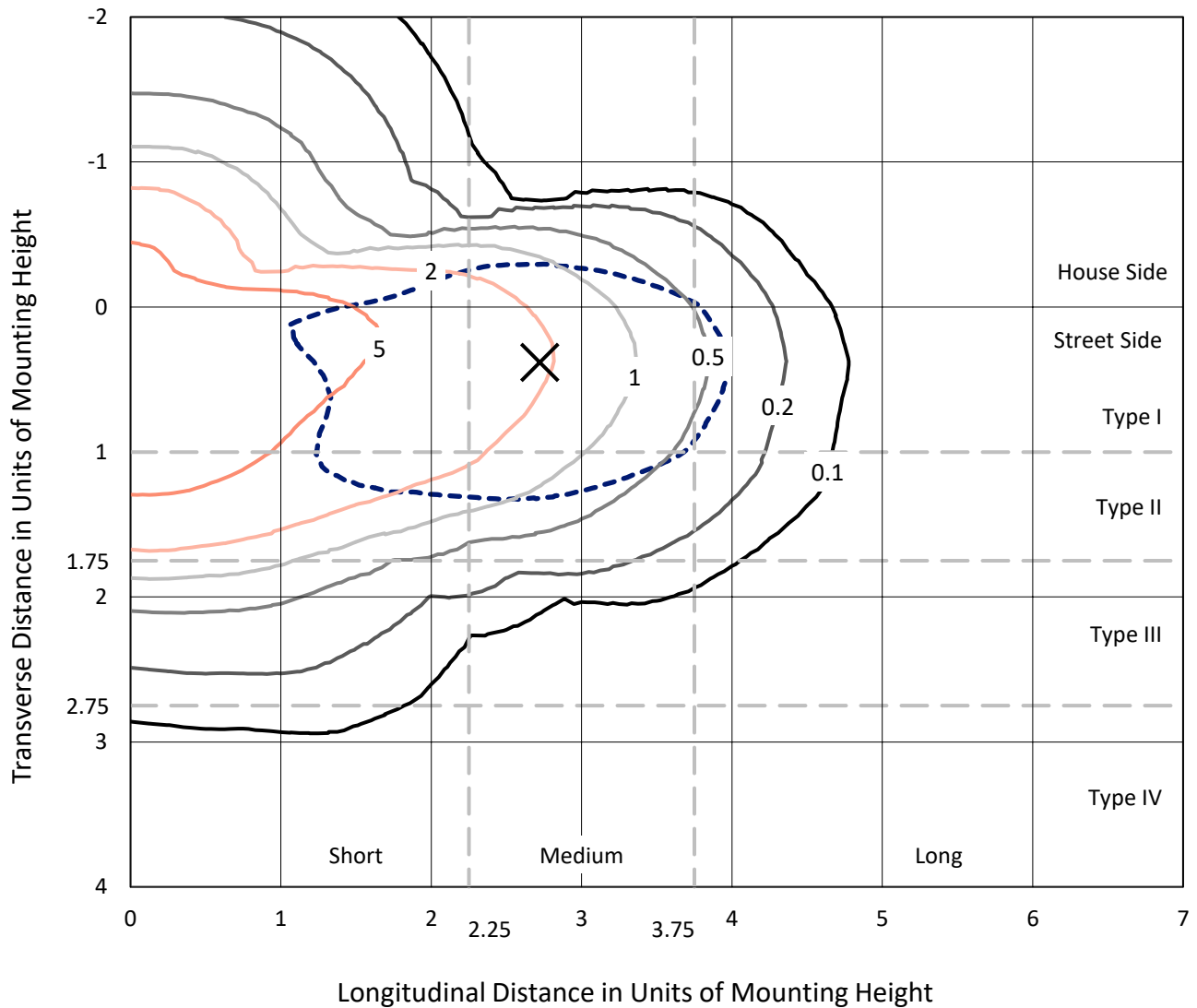
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

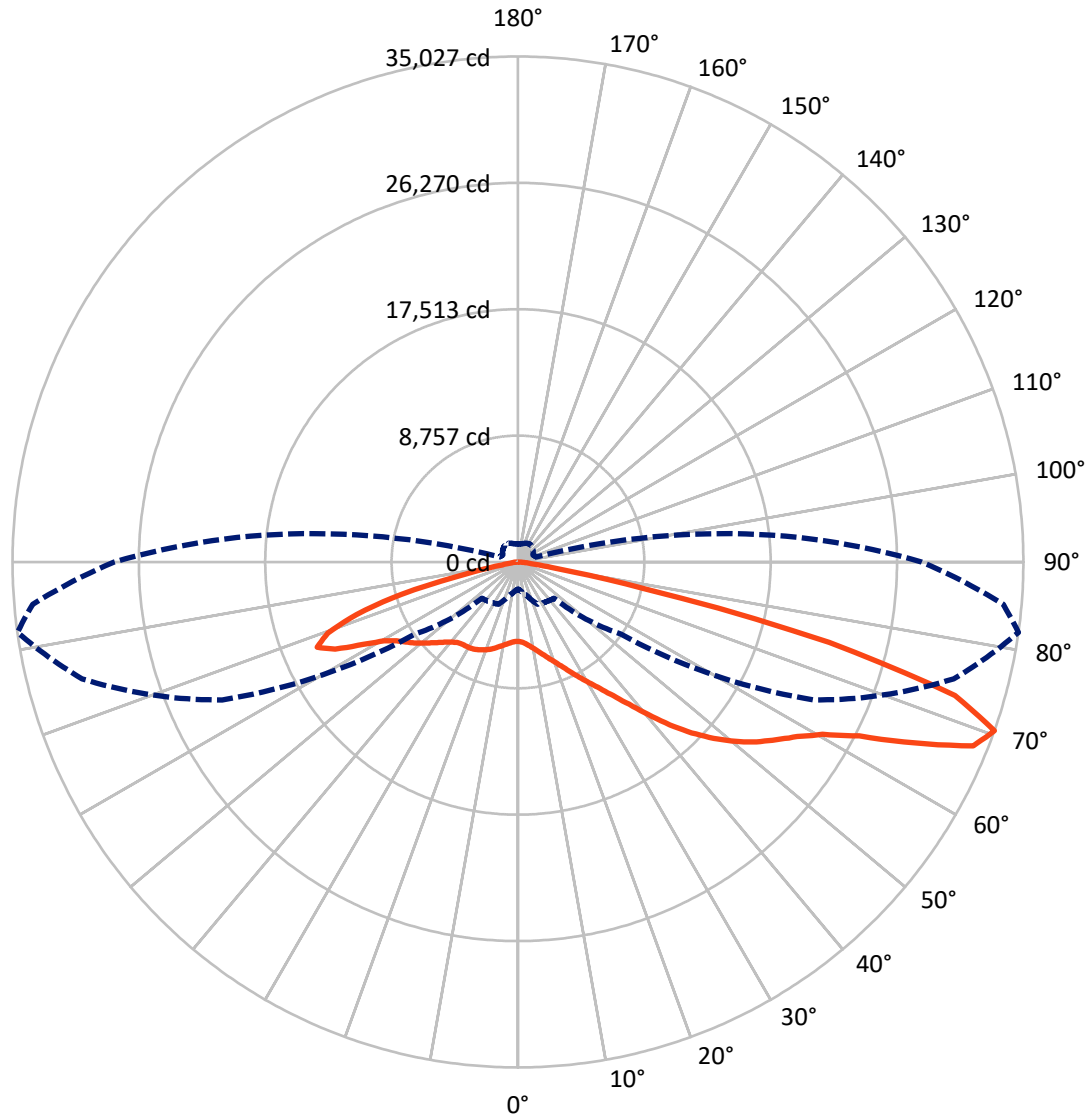
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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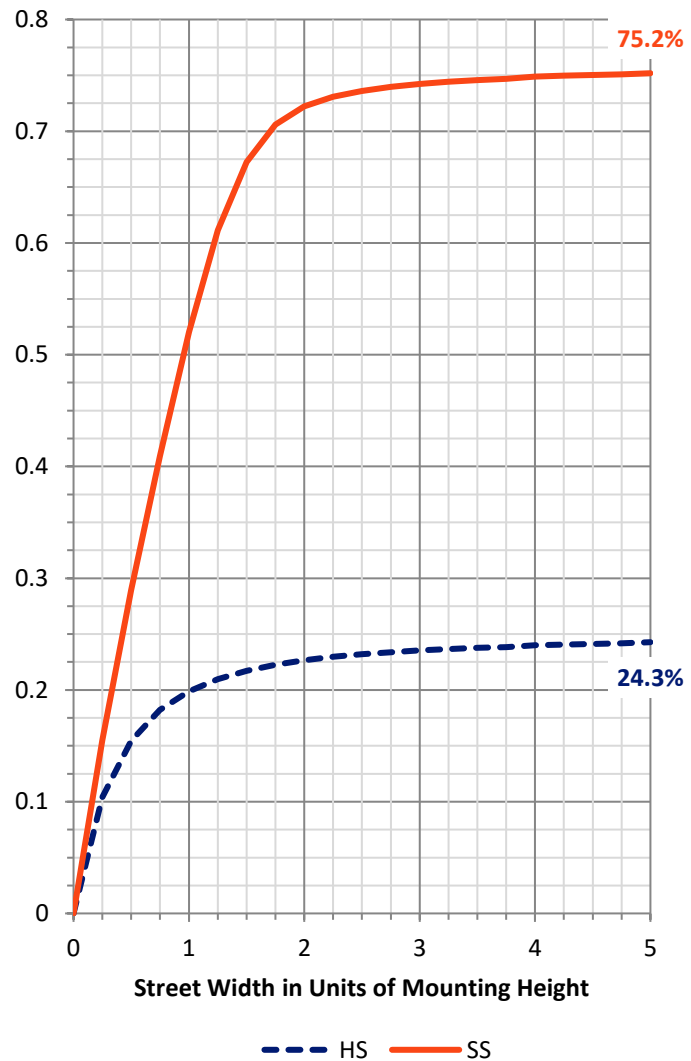
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9240.2	0.0	9240.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28241.8	0.0	28241.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	37482.0	0.0	37482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.9	1.4
10°-20°	1490.7	4.0
20°-30°	2493.8	6.7
30°-40°	3896.0	10.4
40°-50°	6204.8	16.6
50°-60°	8634.7	23.0
60°-70°	9032.3	24.1
70°-80°	4720.8	12.6
80°-90°	490.2	1.3
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°	37482.0	100.0
0°-180°	37482.0	100.0



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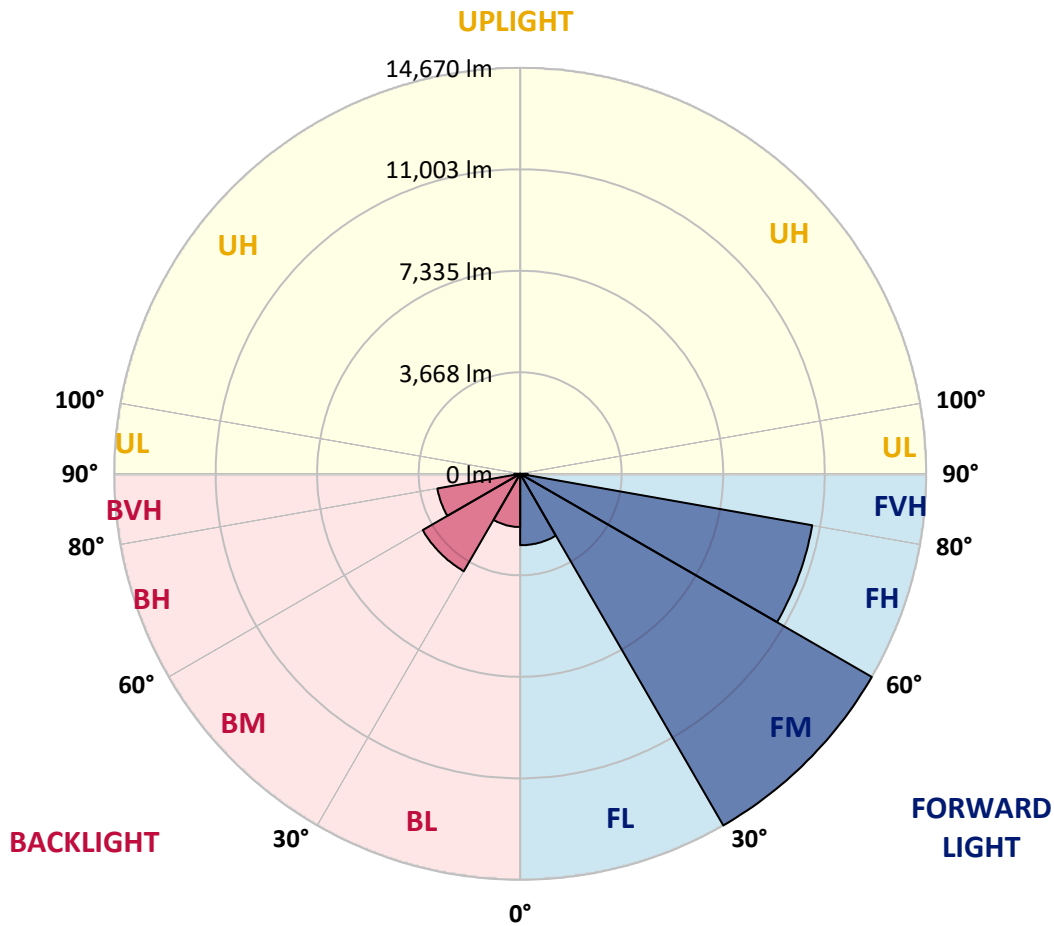
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2581.1	6.9			
FM (30°-60°)	14670.1	39.1			
FH (60°-80°)	10716.2	28.6			G4/12000
FVH (80°-90°)	274.4	0.7			G3/500
BL (0°-30°)	1922.3	5.1	B3/2500		
BM (30°-60°)	4065.3	10.8	B3/5000		
BH (60°-80°)	3036.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	215.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3
2.5°	5626.6	5658.4	5648.5	5638.5	5638.5	5624.6	5622.6	5602.7	5586.8	5561.0
5°	5698.2	5732.0	5728.0	5736.0	5761.8	5767.8	5773.8	5761.8	5730.0	5698.2
7.5°	5634.6	5672.3	5684.3	5732.0	5811.6	5883.2	5936.9	5958.7	5928.9	5883.2
10°	5419.8	5461.5	5503.3	5616.7	5757.9	5926.9	6070.1	6155.6	6149.7	6105.9
12.5°	4984.2	5027.9	5117.4	5338.2	5596.8	5895.1	6161.6	6340.6	6402.3	6370.4
15°	4636.1	4673.9	4741.5	4968.3	5304.4	5757.9	6195.4	6543.5	6700.6	6682.7
17.5°	4626.2	4642.1	4683.9	4791.3	5049.8	5543.1	6159.6	6742.4	7042.7	7040.7
20°	4801.2	4807.2	4831.0	4852.9	5000.1	5380.0	6068.1	6907.4	7426.6	7426.6
22.5°	5043.8	5039.9	5063.7	5043.8	5115.5	5366.1	6010.5	7052.6	7854.2	7886.0
25°	5407.8	5387.9	5382.0	5336.2	5350.1	5495.3	6074.1	7217.7	8361.3	8427.0
27.5°	5893.1	5861.3	5839.4	5734.0	5698.2	5761.8	6269.0	7416.6	8926.2	9039.5
30°	6525.6	6467.9	6436.1	6253.1	6123.8	6133.8	6563.4	7681.1	9516.9	9699.9
32.5°	7388.8	7299.3	7213.7	6913.4	6676.7	6599.2	6943.2	8047.1	10157.3	10449.7
35°	8355.4	8283.8	8192.3	7728.9	7364.9	7185.9	7456.4	8558.2	10907.1	11370.5
37.5°	9286.2	9224.5	9268.3	8643.8	8174.4	7913.8	8128.6	9244.4	11832.0	12516.1
40°	10248.8	10201.1	10207.0	9610.4	9063.4	8771.0	8944.1	10105.6	12892.0	13878.5
42.5°	11295.0	11259.2	11139.8	10610.8	9996.2	9723.7	9882.8	11100.0	14029.7	15429.9
45°	12466.4	12444.5	12333.2	11726.6	11022.5	10716.2	10931.0	12197.9	15173.3	16889.7
47.5°	13478.8	13496.7	13482.8	12971.6	12241.7	11792.2	12048.8	13343.5	16237.4	18262.1
50°	13966.1	14059.5	14196.8	14037.7	13584.2	13126.7	13176.5	14449.4	17251.7	19548.9
52.5°	13711.5	13888.5	14262.4	14517.0	14692.0	14596.5	14463.3	15547.2	18206.4	20710.4
55°	12762.8	13011.4	13631.9	14246.5	15139.5	15833.6	16008.7	16764.4	19137.2	21732.7
57.5°	11034.4	11438.2	11995.1	13238.1	14741.7	16432.3	17810.6	18453.0	20123.7	22824.6
60°	8071.0	8611.9	9304.1	11153.7	13349.5	16112.1	19344.0	21046.5	21525.9	24238.7
62.5°	5165.2	5499.3	6135.8	7878.0	10401.9	14471.2	19813.4	24288.4	23902.6	26557.8
65°	3536.3	3751.1	4333.8	5312.4	6724.5	10771.9	18556.4	26718.9	27677.5	30233.3
67.5°	2569.7	2732.7	3230.0	4087.2	4381.5	6374.4	14399.6	26607.5	31347.0	34020.1
70°	1873.5	1988.9	2406.6	3230.0	3371.2	3546.2	8723.3	22617.8	31267.5	35026.5
72.5°	1388.3	1467.8	1748.2	2506.0	2728.8	2394.6	4317.9	16438.3	26868.0	31681.2
75°	1004.4	1064.1	1270.9	1917.3	2183.8	1823.8	2154.0	9606.4	18741.4	22285.6
77.5°	767.7	813.5	948.7	1404.2	1748.2	1368.4	1336.5	4419.3	8886.4	8930.2
80°	616.6	646.4	720.0	988.5	1340.5	1024.3	871.1	1784.0	2808.3	2376.7
82.5°	453.5	503.2	608.6	694.1	958.6	706.1	531.0	901.0	1068.0	918.9
85°	258.6	292.4	367.9	497.2	612.6	431.6	304.3	399.8	497.2	407.7
87.5°	91.5	119.3	129.3	194.9	266.5	179.0	117.3	115.4	163.1	121.3
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°
5495.3	0°	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3	5495.3
5555.0	2.5°	5535.1	5525.2	5485.4	5431.7	5376.0	5322.3	5304.4	5266.6	5240.8	5226.8
5684.3	5°	5646.5	5614.7	5521.2	5401.9	5276.6	5141.3	5045.8	4958.3	4894.7	4835.0
5861.3	7.5°	5805.6	5749.9	5588.8	5380.0	5157.2	4932.5	4765.4	4638.1	4552.6	4496.9
6068.1	10°	5990.6	5905.0	5658.4	5346.2	5002.1	4679.9	4483.0	4373.6	4319.9	4290.1
6304.8	12.5°	6203.4	6082.1	5730.0	5268.6	4765.4	4397.5	4262.2	4230.4	4232.4	4234.4
6603.1	15°	6465.9	6296.9	5787.7	5099.5	4457.1	4180.7	4156.8	4208.5	4262.2	4288.1
6941.3	17.5°	6762.3	6523.6	5797.6	4821.1	4154.8	4041.4	4117.0	4228.4	4309.9	4345.7
7319.2	20°	7080.5	6754.3	5726.0	4427.3	3906.2	3928.1	4063.3	4206.5	4296.0	4341.8
7750.7	22.5°	7444.5	7000.9	5555.0	4013.6	3703.3	3804.8	3963.9	4103.1	4196.6	4242.3
8257.9	25°	7860.1	7277.4	5286.5	3665.5	3528.3	3665.5	3824.7	3940.0	4015.6	4057.4
8824.7	27.5°	8321.6	7565.8	4928.5	3389.1	3375.2	3522.3	3653.6	3743.1	3782.9	3814.7
9427.4	30°	8785.0	7828.3	4494.9	3180.3	3241.9	3381.1	3474.6	3514.4	3526.3	3532.3
10099.6	32.5°	9286.2	8055.0	4039.5	3007.2	3114.6	3243.9	3299.6	3317.5	3261.8	3224.0
10915.1	35°	9892.8	8297.7	3593.9	2870.0	2989.3	3100.7	3118.6	3102.7	3037.0	2959.5
11937.4	37.5°	10642.6	8600.0	3237.9	2772.5	2872.0	2945.6	2923.7	2919.7	2925.7	2834.2
13166.5	40°	11561.5	8993.8	2977.4	2696.9	2776.5	2792.4	2730.8	2764.6	2794.4	2655.2
14515.0	42.5°	12581.8	9469.2	2812.3	2645.2	2696.9	2659.2	2563.7	2601.5	2597.5	2414.5
15869.4	45°	13622.0	9986.3	2754.6	2607.4	2623.4	2547.8	2442.4	2452.3	2368.8	2203.7
17168.2	47.5°	14656.2	10541.2	2790.4	2575.6	2531.9	2446.3	2364.8	2321.0	2197.7	2074.4
18413.2	50°	15670.5	11123.9	2921.7	2512.0	2406.6	2356.8	2297.2	2219.6	2088.3	1982.9
19590.7	52.5°	16611.3	11710.6	3068.9	2406.6	2249.4	2279.3	2241.5	2152.0	2022.7	1915.3
20704.4	55°	17502.3	12297.4	3126.6	2261.4	2102.3	2211.7	2189.8	2024.7	1869.6	1782.1
21869.9	57.5°	18472.9	13003.4	3062.9	2076.4	1982.9	2134.1	2050.6	1867.6	1778.1	1712.4
23387.5	60°	19817.4	14111.2	2925.7	1847.7	1869.6	2018.7	1875.5	1800.0	1702.5	1628.9
25662.8	62.5°	22050.9	16177.7	2704.9	1621.0	1736.3	1847.7	1792.0	1716.4	1617.0	1545.4
29553.1	65°	25352.5	19049.7	2289.2	1443.9	1587.1	1680.6	1702.5	1626.9	1523.5	1447.9
32962.0	67.5°	28137.0	20851.6	1732.3	1296.8	1434.0	1545.4	1607.0	1533.4	1424.1	1350.5
33759.6	70°	27983.8	19542.9	1322.6	1151.6	1298.8	1412.1	1491.7	1434.0	1316.7	1247.0
30664.9	72.5°	24855.3	16348.8	1070.0	1004.4	1161.5	1272.9	1368.4	1324.6	1205.3	1137.7
22464.6	75°	18260.1	11605.2	855.2	855.2	990.5	1127.7	1233.1	1205.3	1095.9	1048.2
9431.4	77.5°	7697.0	4868.8	670.3	710.0	823.4	968.6	1099.9	1109.8	1014.3	1074.0
2494.1	80°	2046.6	1342.5	511.1	558.9	646.4	799.5	956.7	952.7	849.3	793.6
926.8	82.5°	779.6	529.0	364.0	393.8	467.4	612.6	757.8	781.6	678.2	586.7
364.0	85°	300.3	226.7	224.7	236.7	272.5	405.7	572.8	592.7	511.1	433.6
101.4	87.5°	77.6	67.6	83.5	79.6	125.3	216.8	328.2	340.1	312.3	181.0
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>
5495.3
5242.7
4858.9
4508.8
4298.0
4238.3
4286.1
4353.7
4353.7
4254.3
4069.3
3826.6
3546.2
3235.9
2963.5
2840.1
2659.2
2412.5
2209.7
2074.4
1975.0
1917.3
1774.1
1706.5
1624.9
1545.4
1451.9
1352.5
1253.0
1137.7
1034.2
974.6
737.9
586.7
447.5
258.6
0.0

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