

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: P941805

Luminaire Tested: **GALN-SB5C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941805
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-SB5C-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37484 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

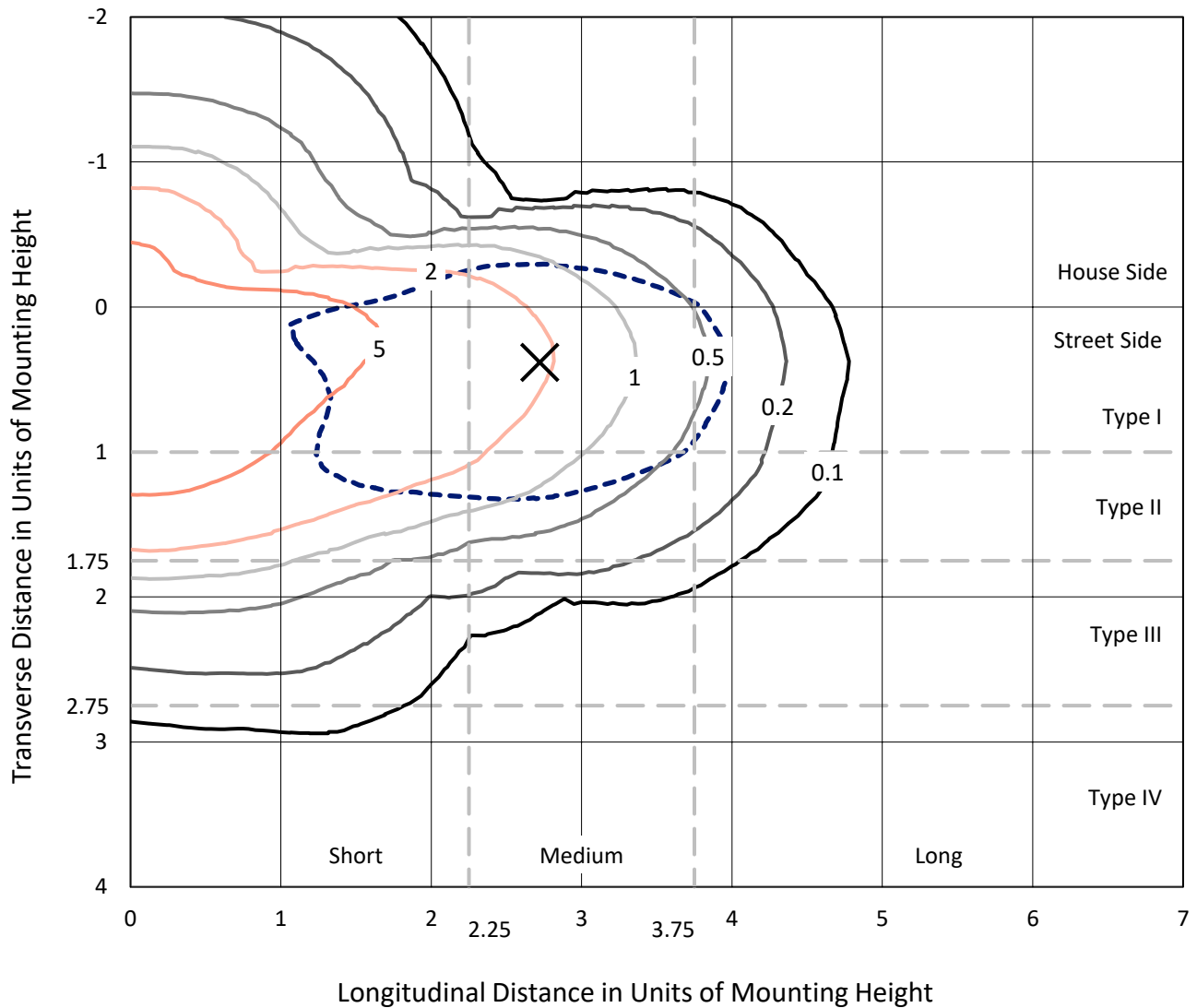
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

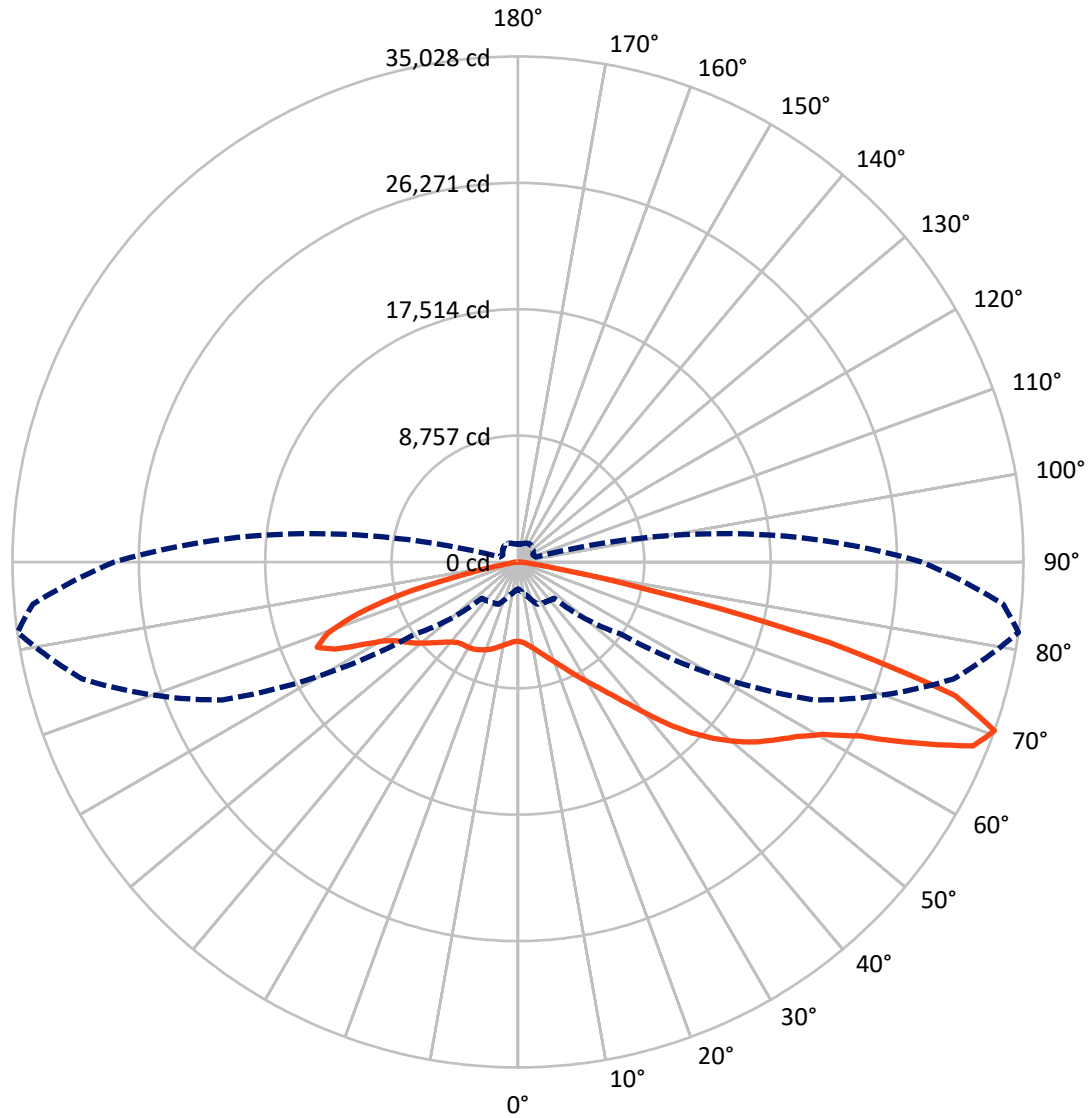
✕ Max cd
 - - - 1/2 Max cd



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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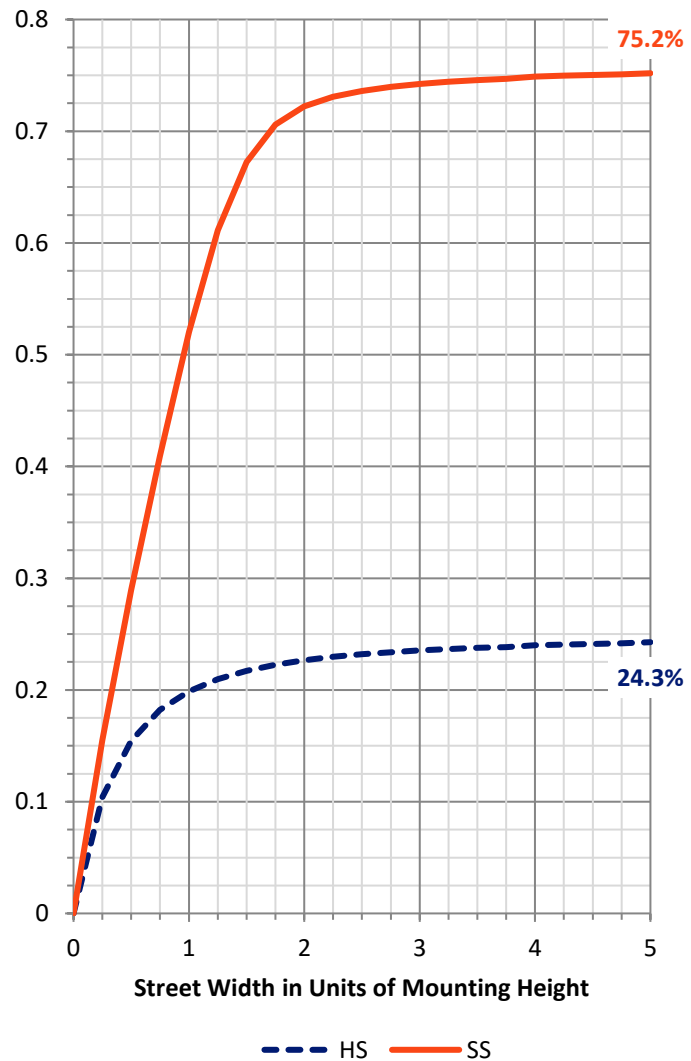
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9240.7	0.0	9240.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28243.3	0.0	28243.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	37484.0	0.0	37484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.9	1.4
10°-20°	1490.8	4.0
20°-30°	2493.9	6.7
30°-40°	3896.2	10.4
40°-50°	6205.1	16.6
50°-60°	8635.2	23.0
60°-70°	9032.8	24.1
70°-80°	4721.0	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°	37484.0	100.0
0°-180°	37484.0	100.0



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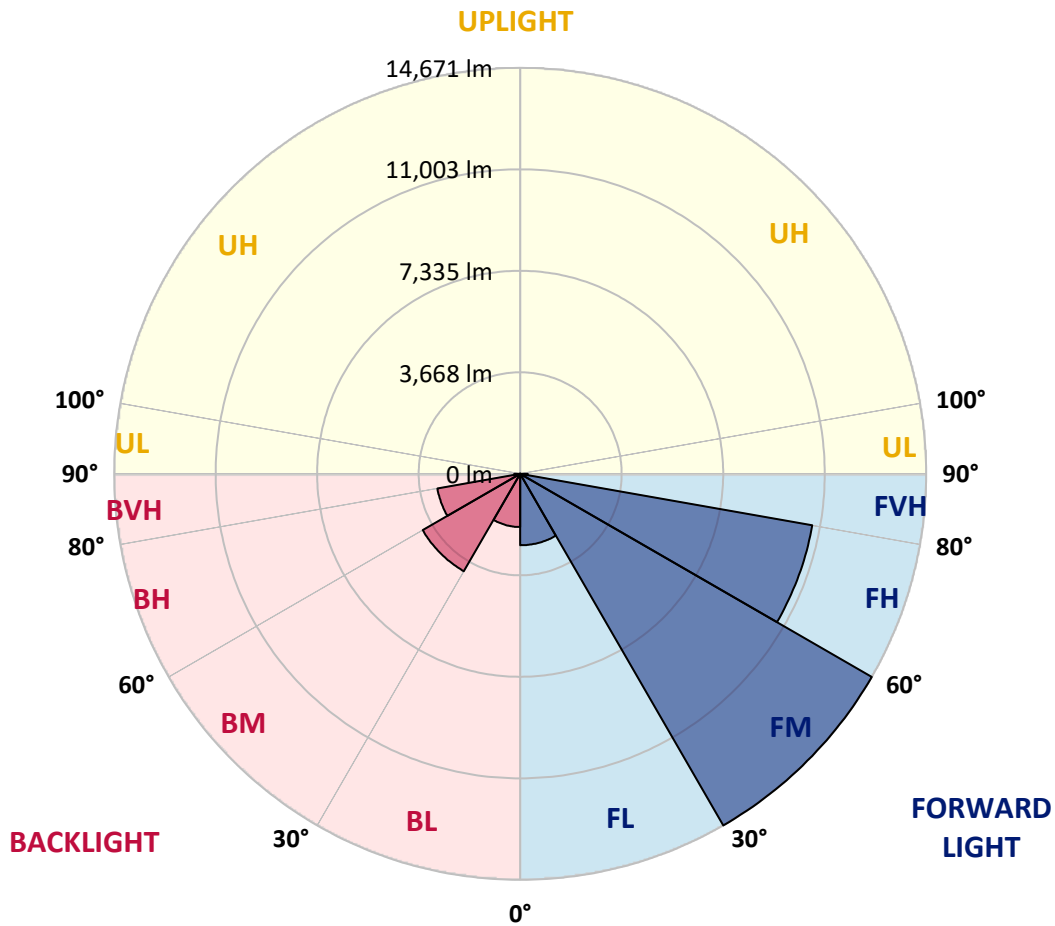
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2581.2	6.9			
FM (30°-60°)	14670.9	39.1			
FH (60°-80°)	10716.8	28.6			G4/12000
FVH (80°-90°)	274.4	0.7			G3/500
BL (0°-30°)	1922.4	5.1	B3/2500		
BM (30°-60°)	4065.6	10.8	B3/5000		
BH (60°-80°)	3037.0	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°	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6
2.5°	5626.9	5658.7	5648.8	5638.8	5638.8	5624.9	5622.9	5603.0	5587.1	5561.3
5°	5698.5	5732.3	5728.3	5736.3	5762.1	5768.1	5774.1	5762.1	5730.3	5698.5
7.5°	5634.9	5672.6	5684.6	5732.3	5811.9	5883.5	5937.2	5959.1	5929.2	5883.5
10°	5420.0	5461.8	5503.6	5617.0	5758.2	5927.2	6070.4	6156.0	6150.0	6106.2
12.5°	4984.4	5028.2	5117.7	5338.5	5597.1	5895.4	6161.9	6341.0	6402.6	6370.8
15°	4636.4	4674.2	4741.8	4968.5	5304.7	5758.2	6195.8	6543.8	6701.0	6683.1
17.5°	4626.4	4642.3	4684.1	4791.5	5050.1	5543.4	6160.0	6742.7	7043.1	7041.1
20°	4801.5	4807.4	4831.3	4853.2	5000.4	5380.3	6068.5	6907.8	7426.9	7426.9
22.5°	5044.1	5040.1	5064.0	5044.1	5115.7	5366.3	6010.8	7053.0	7854.6	7886.4
25°	5408.1	5388.2	5382.2	5336.5	5350.4	5495.6	6074.4	7218.1	8361.8	8427.4
27.5°	5893.4	5861.6	5839.7	5734.3	5698.5	5762.1	6269.3	7417.0	8926.7	9040.0
30°	6525.9	6468.2	6436.4	6253.4	6124.1	6134.1	6563.7	7681.5	9517.4	9700.4
32.5°	7389.2	7299.7	7214.1	6913.8	6677.1	6599.5	6943.6	8047.5	10157.9	10450.2
35°	8355.8	8284.2	8192.7	7729.3	7365.3	7186.3	7456.8	8558.7	10907.7	11371.1
37.5°	9286.7	9225.0	9268.8	8644.2	8174.8	7914.3	8129.1	9244.9	11832.6	12516.8
40°	10249.3	10201.6	10207.6	9610.9	9063.9	8771.5	8944.6	10106.1	12892.7	13879.3
42.5°	11295.6	11259.8	11140.4	10611.3	9996.7	9724.2	9883.4	11100.6	14030.4	15430.7
45°	12467.1	12445.2	12333.8	11727.2	11023.1	10716.8	10931.6	12198.6	15174.1	16890.6
47.5°	13479.5	13497.4	13483.5	12972.3	12242.3	11792.8	12049.4	13344.2	16238.2	18263.1
50°	13966.8	14060.3	14197.5	14038.4	13584.9	13127.4	13177.2	14450.1	17252.6	19549.9
52.5°	13712.2	13889.2	14263.2	14517.8	14692.8	14597.3	14464.1	15548.1	18207.4	20711.5
55°	12763.5	13012.1	13632.6	14247.2	15140.3	15834.5	16009.5	16765.3	19138.2	21733.9
57.5°	11035.0	11438.8	11995.7	13238.8	14742.5	16433.2	17811.5	18454.0	20124.8	22825.8
60°	8071.4	8612.4	9304.6	11154.3	13350.2	16112.9	19345.1	21047.7	21527.0	24240.0
62.5°	5165.4	5499.6	6136.1	7878.5	10402.5	14472.0	19814.5	24289.7	23903.9	26559.2
65°	3536.5	3751.3	4334.0	5312.6	6724.8	10772.5	18557.4	26720.3	27679.0	30234.9
67.5°	2569.8	2732.9	3230.1	4087.4	4381.8	6374.8	14400.4	26608.9	31348.7	34021.9
70°	1873.6	1989.0	2406.7	3230.1	3371.4	3546.4	8723.8	22619.0	31269.2	35028.4
72.5°	1388.3	1467.9	1748.3	2506.1	2728.9	2394.8	4318.1	16439.1	26869.5	31682.9
75°	1004.4	1064.1	1271.0	1917.4	2183.9	1823.9	2154.1	9606.9	18742.4	22286.8
77.5°	767.8	813.5	948.8	1404.2	1748.3	1368.4	1336.6	4419.6	8886.9	8930.6
80°	616.6	646.4	720.0	988.5	1340.6	1024.3	871.2	1784.1	2808.5	2376.9
82.5°	453.5	503.2	608.6	694.2	958.7	706.1	531.1	901.0	1068.1	918.9
85°	258.6	292.4	368.0	497.3	612.6	431.6	304.3	399.8	497.3	407.7
87.5°	91.5	119.3	129.3	194.9	266.5	179.0	117.4	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°
5495.6	0°	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6	5495.6
5555.3	2.5°	5535.4	5525.5	5485.7	5432.0	5376.3	5322.6	5304.7	5266.9	5241.0	5227.1
5684.6	5°	5646.8	5615.0	5521.5	5402.1	5276.8	5141.6	5046.1	4958.6	4894.9	4835.3
5861.6	7.5°	5805.9	5750.2	5589.1	5380.3	5157.5	4932.7	4765.7	4638.4	4552.8	4497.1
6068.5	10°	5990.9	5905.4	5658.7	5346.4	5002.3	4680.1	4483.2	4373.8	4320.1	4290.3
6305.1	12.5°	6203.7	6082.4	5730.3	5268.9	4765.7	4397.7	4262.4	4230.6	4232.6	4234.6
6603.5	15°	6466.3	6297.2	5788.0	5099.8	4457.4	4180.9	4157.0	4208.7	4262.4	4288.3
6941.6	17.5°	6762.6	6523.9	5798.0	4821.4	4155.0	4041.7	4117.2	4228.6	4310.2	4346.0
7319.5	20°	7080.9	6754.7	5726.3	4427.5	3906.4	3928.3	4063.5	4206.7	4296.3	4342.0
7751.2	22.5°	7444.8	7001.3	5555.3	4013.8	3703.5	3805.0	3964.1	4103.3	4196.8	4242.5
8258.4	25°	7860.6	7277.8	5286.8	3665.7	3528.5	3665.7	3824.9	3940.2	4015.8	4057.6
8825.2	27.5°	8322.0	7566.2	4928.8	3389.3	3375.3	3522.5	3653.8	3743.3	3783.1	3814.9
9427.9	30°	8785.4	7828.7	4495.2	3180.4	3242.1	3381.3	3474.8	3514.6	3526.5	3532.5
10100.2	32.5°	9286.7	8055.5	4039.7	3007.4	3114.8	3244.1	3299.8	3317.7	3262.0	3224.2
10915.7	35°	9893.3	8298.1	3594.1	2870.1	2989.5	3100.9	3118.8	3102.8	3037.2	2959.6
11938.0	37.5°	10643.2	8600.5	3238.1	2772.7	2872.1	2945.7	2923.8	2919.9	2925.8	2834.3
13167.2	40°	11562.1	8994.3	2977.5	2697.1	2776.7	2792.6	2730.9	2764.7	2794.6	2655.3
14515.8	42.5°	12582.5	9469.7	2812.5	2645.4	2697.1	2659.3	2563.8	2601.6	2597.6	2414.7
15870.3	45°	13622.7	9986.8	2754.8	2607.6	2623.5	2547.9	2442.5	2452.4	2368.9	2203.8
17169.1	47.5°	14657.0	10541.7	2790.6	2575.8	2532.0	2446.5	2364.9	2321.2	2197.9	2074.5
18414.2	50°	15671.4	11124.5	2921.8	2512.1	2406.7	2357.0	2297.3	2219.7	2088.5	1983.0
19591.7	52.5°	16612.2	11711.3	3069.0	2406.7	2249.6	2279.4	2241.6	2152.1	2022.8	1915.4
20705.6	55°	17503.3	12298.0	3126.7	2261.5	2102.4	2211.8	2189.9	2024.8	1869.7	1782.1
21871.1	57.5°	18473.9	13004.1	3063.1	2076.5	1983.0	2134.2	2050.7	1867.7	1778.2	1712.5
23388.7	60°	19818.5	14112.0	2925.8	1847.8	1869.7	2018.8	1875.6	1800.1	1702.6	1629.0
25664.1	62.5°	22052.1	16178.6	2705.0	1621.0	1736.4	1847.8	1792.1	1716.5	1617.1	1545.5
29554.6	65°	25353.9	19050.7	2289.3	1444.0	1587.2	1680.7	1702.6	1627.0	1523.6	1448.0
32963.8	67.5°	28138.5	20852.7	1732.4	1296.8	1434.1	1545.5	1607.1	1533.5	1424.1	1350.5
33761.4	70°	27985.3	19544.0	1322.7	1151.6	1298.8	1412.2	1491.8	1434.1	1316.7	1247.1
30666.5	72.5°	24856.6	16349.6	1070.1	1004.4	1161.6	1273.0	1368.4	1324.7	1205.3	1137.7
22465.8	75°	18261.1	11605.8	855.3	855.3	990.5	1127.8	1233.2	1205.3	1095.9	1048.2
9431.9	77.5°	7697.5	4869.1	670.3	710.1	823.4	968.6	1099.9	1109.9	1014.4	1074.1
2494.2	80°	2046.7	1342.6	511.2	558.9	646.4	799.6	956.7	952.7	849.3	793.6
926.9	82.5°	779.7	529.1	364.0	393.8	467.4	612.6	757.8	781.7	678.3	586.8
364.0	85°	300.3	226.7	224.8	236.7	272.5	405.8	572.8	592.7	511.2	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

(END O

<u>180°</u>
5495.6
5243.0
4859.1
4509.1
4298.2
4238.6
4286.3
4353.9
4353.9
4254.5
4069.5
3826.8
3546.4
3236.1
2963.6
2840.3
2659.3
2412.7
2209.8
2074.5
1975.1
1917.4
1774.2
1706.6
1625.0
1545.5
1452.0
1352.5
1253.1
1137.7
1034.3
974.6
737.9
586.8
447.5
258.6
0.0

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