

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: P942487

Luminaire Tested: **GALN-SB6C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45445 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

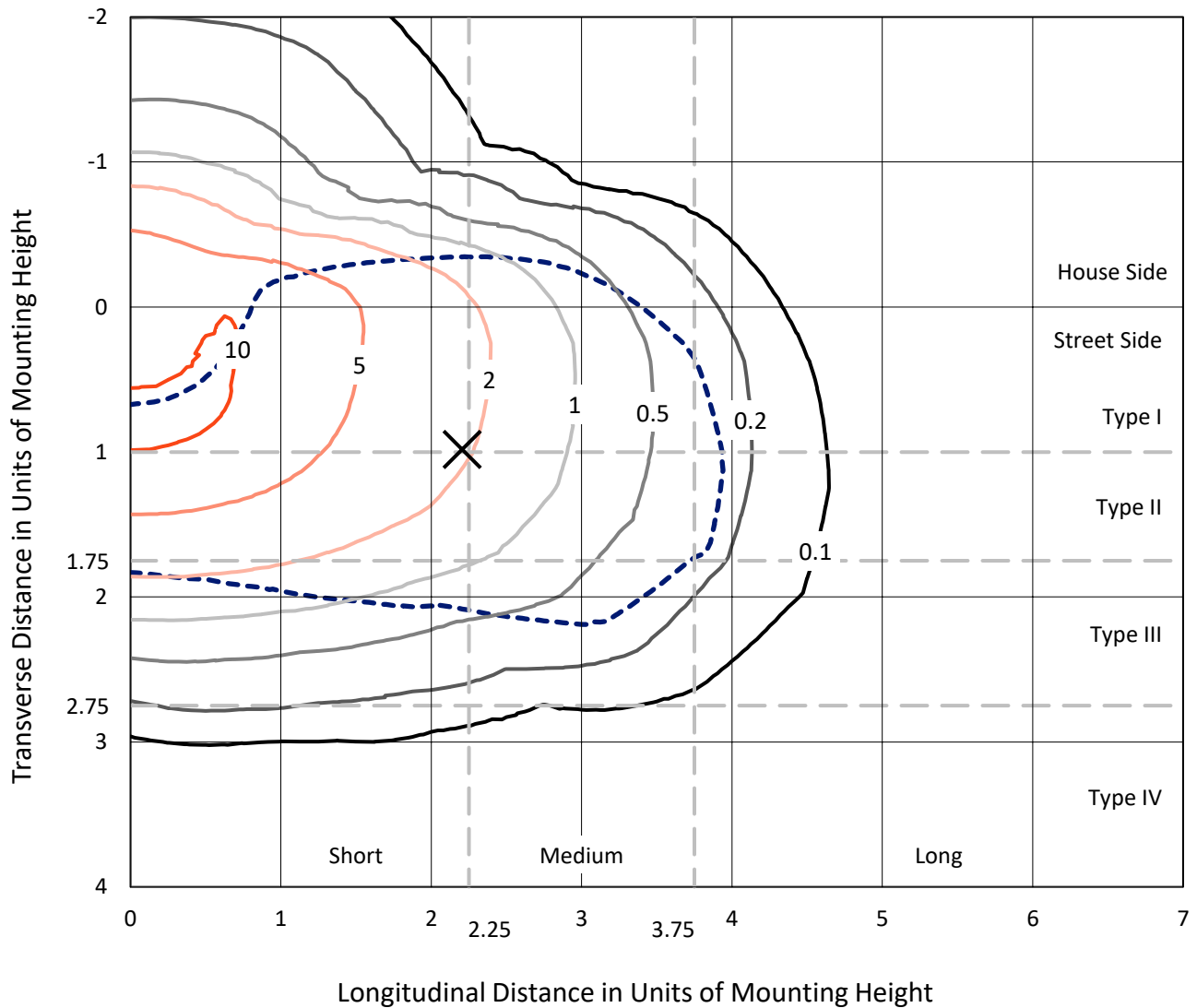
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

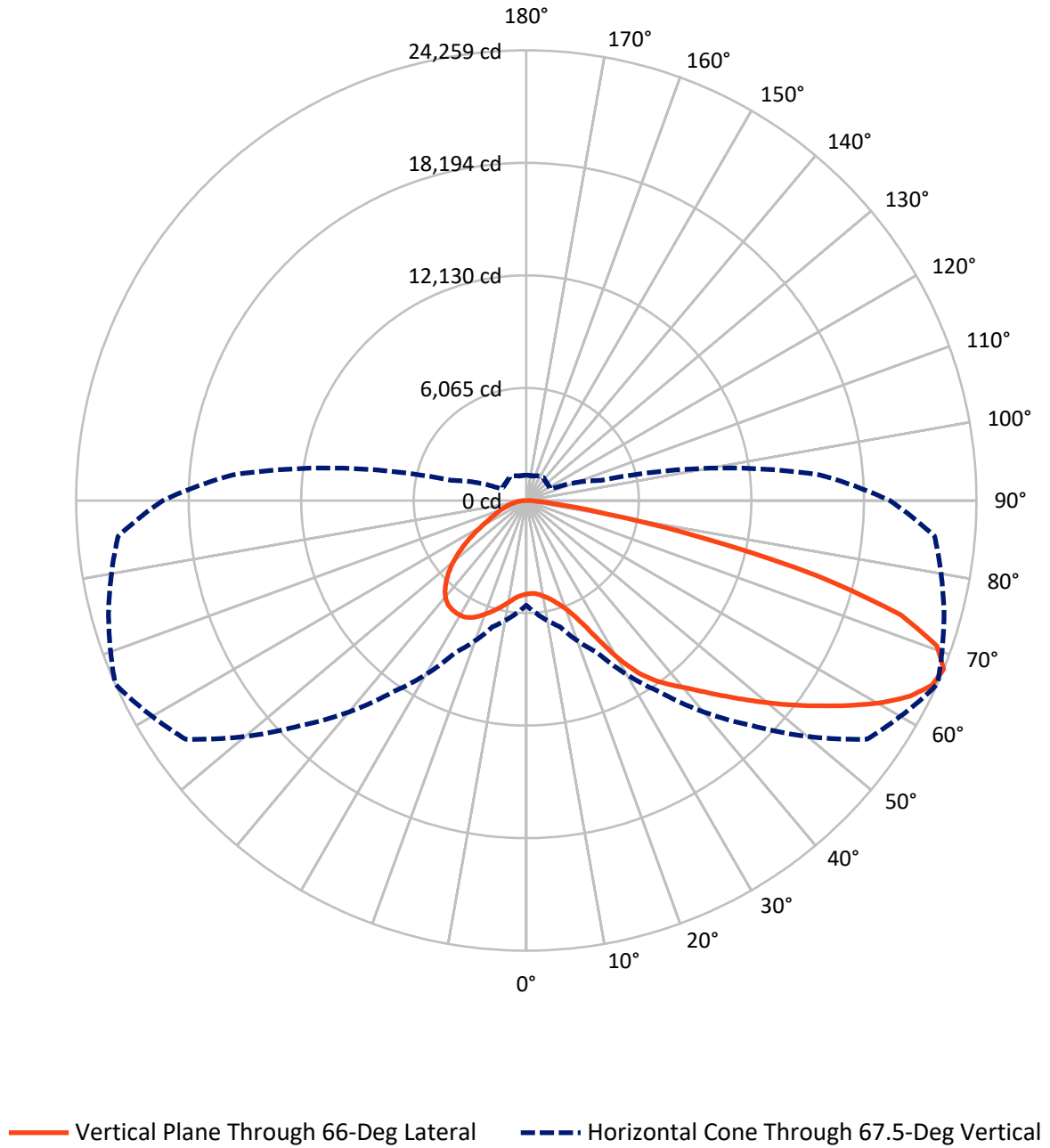
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11299.8	0.0	11299.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34145.2	0.0	34145.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	45445.0	0.0	45445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.7	1.1
10°-20°	1651.1	3.6
20°-30°	3182.4	7.0
30°-40°	5579.9	12.3
40°-50°	8295.4	18.3
50°-60°	10515.2	23.1
60°-70°	10288.9	22.6
70°-80°	4907.9	10.8
80°-90°	524.5	1.2
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°	45445.0	100.0
0°-180°	45445.0	100.0

Coefficient of Utilization



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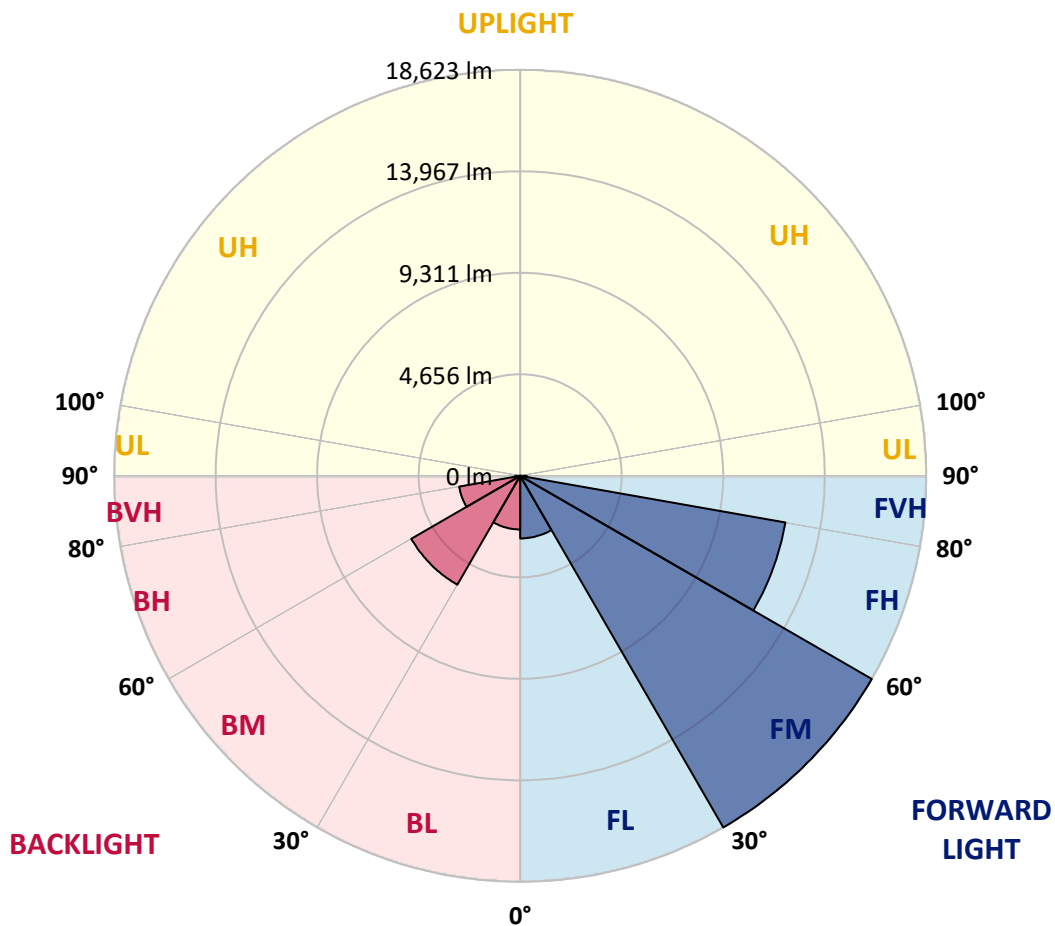
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.7	6.3			
FM (30°-60°)	18623.0	41.0			
FH (60°-80°)	12353.2	27.2			G5
FVH (80°-90°)	297.4	0.7			G3/500
BL (0°-30°)	2461.5	5.4	B3/2500		
BM (30°-60°)	5767.5	12.7	B4/8500		
BH (60°-80°)	2843.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	227.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5
2.5°	4987.9	5016.6	5009.4	4997.5	4995.1	4999.9	5007.0	5014.2	5011.8	5023.7
5°	4973.6	5002.2	4999.9	4999.9	5009.4	5028.5	5040.5	5052.4	5040.5	5054.8
7.5°	4983.1	5004.6	5014.2	5023.7	5047.6	5083.4	5112.1	5138.3	5124.0	5140.7
10°	5104.9	5121.6	5131.2	5131.2	5147.9	5188.5	5217.1	5264.9	5253.0	5279.2
12.5°	5327.0	5343.7	5343.7	5334.1	5346.1	5372.3	5381.9	5434.4	5412.9	5455.9
15°	5599.2	5632.6	5606.3	5589.6	5594.4	5620.7	5618.3	5658.9	5637.4	5673.2
17.5°	5900.0	5943.0	5900.0	5897.6	5888.1	5916.7	5919.1	5954.9	5916.7	5943.0
20°	6255.8	6315.5	6279.7	6291.6	6270.1	6282.1	6294.0	6346.5	6286.8	6305.9
22.5°	6757.2	6828.8	6790.6	6836.0	6821.7	6812.1	6809.7	6902.9	6809.7	6816.9
25°	7487.9	7573.8	7507.0	7569.0	7569.0	7600.1	7635.9	7755.3	7600.1	7554.7
27.5°	8567.1	8653.1	8521.7	8559.9	8548.0	8624.4	8586.2	8882.3	8715.1	8641.1
30°	9866.0	10018.8	9770.5	9760.9	9749.0	9870.8	9925.7	10121.5	9952.0	9877.9
32.5°	11270.0	11430.0	11133.9	11047.9	11002.6	11076.6	11031.2	11188.8	11071.8	10957.2
35°	12755.1	12912.7	12631.0	12463.8	12282.4	12127.2	11964.8	12005.4	11895.6	11721.3
37.5°	14159.1	14448.0	14149.6	13970.5	13636.2	13333.0	12879.3	12690.7	12588.0	12428.0
40°	15589.3	15754.1	15527.3	15374.5	15011.5	14536.4	13810.5	13411.8	13273.3	13118.1
42.5°	16642.3	16799.9	16678.1	16573.1	16288.9	15737.4	14799.0	14300.0	14099.4	13925.1
45°	17478.0	17595.0	17518.6	17556.8	17435.0	16900.2	15823.3	15252.7	15044.9	14832.4
47.5°	17814.7	17938.8	18060.6	18287.5	18495.2	18101.2	16924.1	16284.2	16064.5	15847.2
50°	17776.5	17903.0	18256.4	18738.7	19383.4	19252.1	18084.5	17382.5	17179.6	16931.2
52.5°	17470.9	17614.1	18067.8	18870.1	19896.8	20114.1	19266.4	18516.7	18325.7	18029.6
55°	16668.6	16754.5	17435.0	18571.6	20018.5	20715.8	20424.5	19724.9	19533.8	19120.8
57.5°	15181.0	15305.2	16296.1	17766.9	19712.9	21124.1	21441.6	20995.1	20811.3	20216.7
60°	13239.8	13438.0	14572.2	16415.5	18934.5	21121.7	22365.7	22243.9	22091.1	21296.0
62.5°	11043.1	11272.4	12363.6	14505.3	17573.5	20522.3	22943.5	23289.7	23210.9	22291.6
65°	8481.1	8638.7	9725.1	12034.0	15455.6	19235.4	23010.3	24003.6	24018.0	23048.5
67.5°	5646.9	6100.6	7043.7	9030.3	12619.0	17131.8	22423.0	24120.6	24259.1	23308.8
70°	2755.4	3352.3	4276.4	5869.0	9030.3	13906.0	20887.7	23160.8	23468.8	22549.5
72.5°	1143.7	1337.1	1840.9	2896.3	5183.7	9383.7	17802.7	20558.2	21128.8	19980.3
75°	771.2	835.7	1053.0	1485.2	2361.4	4627.4	12838.7	15329.1	16248.4	15090.3
77.5°	594.5	635.1	766.5	1038.7	1404.0	1750.2	6871.8	9238.0	9713.2	8992.1
80°	468.0	499.0	573.0	756.9	995.7	936.0	2342.3	4185.7	4460.2	3741.5
82.5°	405.9	417.8	410.7	513.4	661.4	546.8	768.8	1544.8	1704.8	1236.8
85°	293.7	327.1	341.4	317.6	351.0	277.0	315.2	546.8	601.7	537.2
87.5°	119.4	176.7	217.3	205.3	128.9	78.8	97.9	160.0	183.9	200.6
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°
5040.5	0°	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5	5040.5
5042.8	2.5°	5045.2	5061.9	5073.9	5088.2	5097.8	5112.1	5140.7	5157.4	5159.8	5171.8
5081.0	5°	5090.6	5114.5	5140.7	5178.9	5221.9	5257.7	5312.6	5350.9	5365.2	5377.1
5174.2	7.5°	5188.5	5221.9	5269.7	5336.5	5398.6	5446.4	5513.2	5558.6	5604.0	5620.7
5322.2	10°	5334.1	5381.9	5451.1	5541.9	5608.7	5670.8	5740.0	5778.3	5823.6	5842.7
5498.9	12.5°	5515.6	5565.7	5656.5	5783.0	5845.1	5888.1	5912.0	5902.4	5912.0	5928.7
5711.4	15°	5723.3	5778.3	5880.9	6017.0	6060.0	6021.8	5969.3	5921.5	5914.4	5919.1
5969.3	17.5°	5969.3	6009.9	6129.2	6243.9	6212.8	6055.2	5940.6	5864.2	5826.0	5814.1
6298.8	20°	6313.1	6313.1	6411.0	6482.6	6274.9	6007.5	5828.4	5704.2	5625.4	5592.0
6747.7	22.5°	6730.9	6692.7	6754.8	6704.7	6263.0	5873.8	5625.4	5410.5	5291.2	5243.4
7375.6	25°	7261.0	7215.7	7198.9	6888.5	6177.0	5661.3	5257.7	4997.5	4892.4	4866.1
8280.6	27.5°	8060.9	7946.3	7729.0	6988.8	6019.4	5327.0	4827.9	4586.8	4527.1	4529.5
9443.4	30°	9125.8	8896.6	8364.1	7005.5	5761.5	4854.2	4388.6	4216.7	4188.0	4200.0
10420.0	32.5°	10111.9	9894.7	9013.6	6929.1	5365.2	4391.0	3994.6	3880.0	3837.0	3851.4
11164.9	35°	10885.6	10825.9	9615.3	6821.7	4878.1	3956.4	3641.3	3543.4	3459.8	3440.7
11866.9	37.5°	11616.2	11592.3	10066.6	6671.3	4395.8	3648.4	3357.1	3228.2	3106.4	3039.6
12642.9	40°	12418.5	12394.6	10362.7	6439.6	3968.4	3381.0	3101.6	2932.1	2781.7	2659.9
13521.6	42.5°	13321.0	13180.1	10503.5	6107.8	3605.4	3154.2	2893.9	2664.7	2466.5	2354.3
14514.9	45°	14307.1	13989.6	10501.1	5685.1	3299.8	2946.4	2671.8	2347.1	2163.3	2058.2
15534.4	47.5°	15353.0	14763.2	10372.2	5217.1	3003.7	2717.2	2328.0	2079.7	1957.9	1893.5
16642.3	50°	16432.2	15486.7	10152.5	4679.9	2700.5	2457.0	2113.1	1943.6	1850.5	1790.8
17740.7	52.5°	17447.0	16143.3	9887.5	4071.0	2392.5	2203.9	2017.6	1886.3	1788.4	1721.5
18805.6	55°	18390.1	16709.2	9512.6	3447.9	2141.8	2034.3	1972.2	1862.4	1750.2	1671.4
19887.2	57.5°	19228.2	17076.9	8865.6	2862.9	1962.7	1917.3	1924.5	1821.8	1692.9	1626.0
20952.1	60°	19925.4	17346.7	7908.1	2320.9	1817.0	1802.7	1850.5	1745.4	1595.0	1518.6
21852.3	62.5°	20343.3	17341.9	6733.3	1900.6	1692.9	1697.7	1752.6	1649.9	1497.1	1425.5
22322.7	65°	20307.5	16916.9	5444.0	1626.0	1573.5	1578.3	1649.9	1544.8	1415.9	1372.9
22086.3	67.5°	19588.8	15880.6	4176.1	1447.0	1442.2	1463.7	1547.2	1473.2	1365.8	1361.0
20677.5	70°	17642.8	13729.3	3008.5	1303.7	1306.1	1337.1	1447.0	1427.8	1339.5	1349.1
17384.9	72.5°	14147.2	10467.7	2020.0	1153.3	1155.7	1205.8	1351.4	1392.0	1313.2	1439.8
12334.9	75°	9421.9	6528.0	1298.9	993.3	995.7	1060.1	1267.9	1322.8	1241.6	1435.0
6418.2	77.5°	4527.1	2934.5	940.8	835.7	835.7	895.4	1096.0	1184.3	1057.8	1115.1
2063.0	80°	1563.9	1103.1	740.2	673.3	659.0	699.6	924.0	1026.7	912.1	840.5
673.3	82.5°	616.0	573.0	594.5	522.9	475.2	501.4	718.7	847.6	670.9	606.5
379.6	85°	353.4	372.5	420.2	346.2	274.6	308.0	527.7	608.9	506.2	446.5
124.2	87.5°	95.5	131.3	193.4	179.1	124.2	131.3	250.7	336.7	291.3	224.4
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°
5040.5
5169.4
5374.7
5623.1
5852.3
5933.5
5935.8
5830.8
5584.8
5236.2
4870.9
4536.6
4240.6
3870.5
3455.0
3041.9
2671.8
2361.4
2053.4
1879.1
1769.3
1692.9
1640.4
1583.1
1485.2
1404.0
1370.5
1368.2
1346.7
1458.9
1447.0
1021.9
787.9
604.1
456.1
231.6
0.0

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