

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: P955976

Luminaire Tested: **GALN-SB8D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955976
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-SB8D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83388 lumens
Efficiency: N/A
Efficacy: 142.6 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

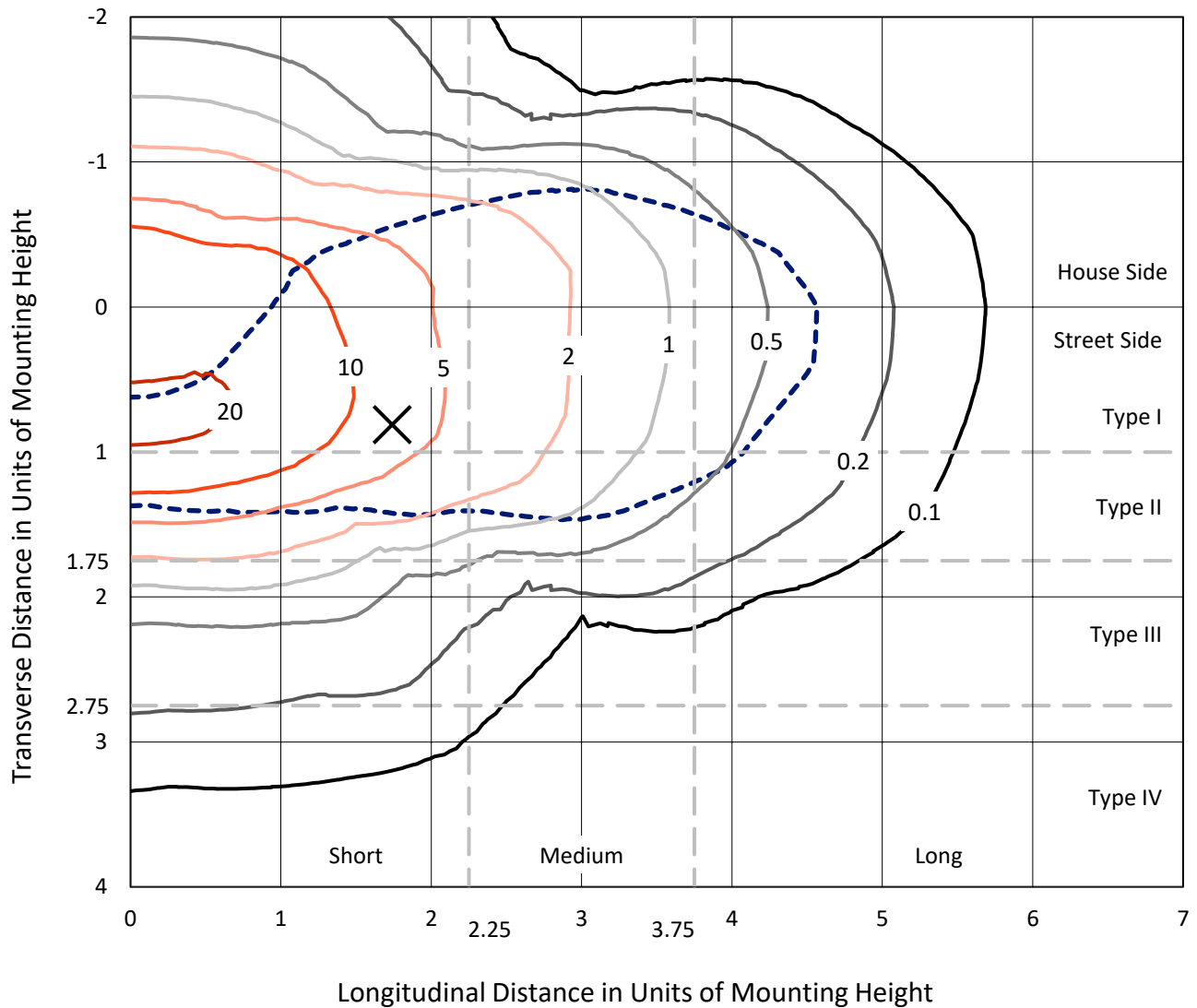
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

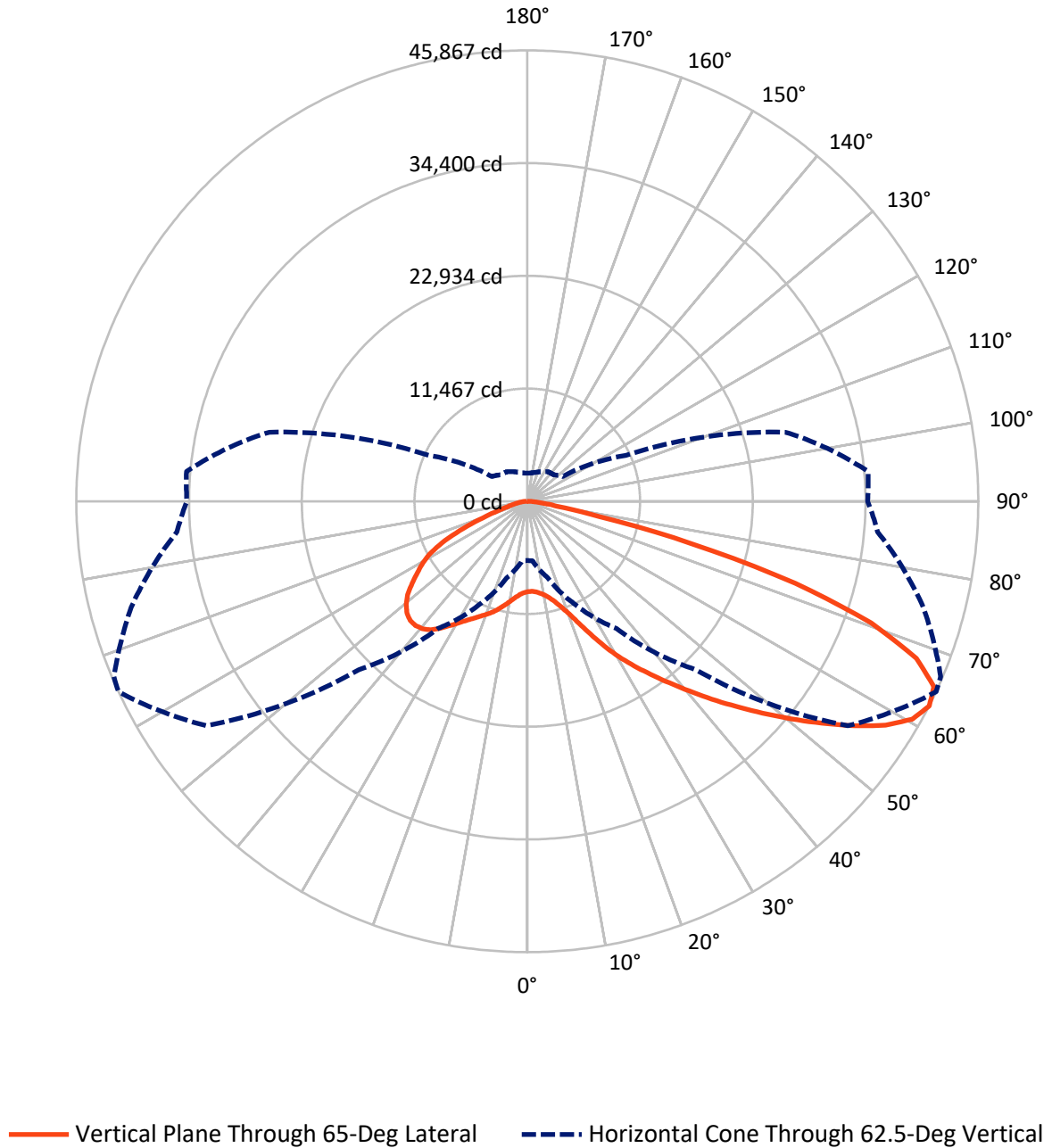
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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	26313.6	0.0	26313.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	57074.4	0.0	57074.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	83388.0	0.0	83388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.1	1.1
10°-20°	3106.7	3.7
20°-30°	6299.1	7.6
30°-40°	10900.6	13.1
40°-50°	16495.9	19.8
50°-60°	19340.4	23.2
60°-70°	16214.6	19.4
70°-80°	8951.8	10.7
80°-90°	1162.8	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°	83388.0	100.0
0°-180°	83388.0	100.0

Coefficient of Utilization



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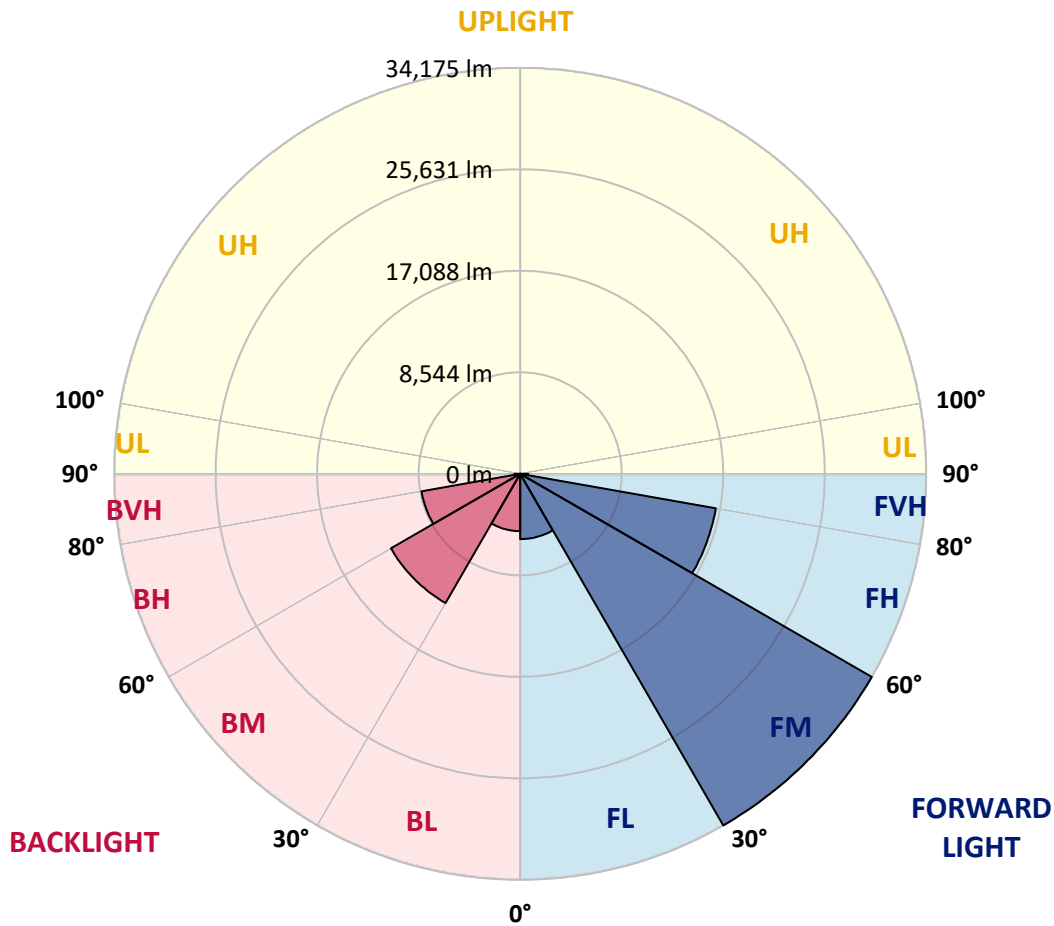
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5496.4	6.6			
FM (30°-60°)	34175.1	41.0			
FH (60°-80°)	16725.2	20.1			G5
FVH (80°-90°)	677.7	0.8			G4/750
BL (0°-30°)	4825.6	5.8	B4/5000		
BM (30°-60°)	12561.8	15.1	B5		
BH (60°-80°)	8441.2	10.1	B5		G5
BVH (80°-90°)	485.1	0.6			G3/500
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°	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0
2.5°	9128.4	9102.5	9124.1	9124.1	9132.8	9128.4	9158.7	9167.4	9180.3	9206.3
5°	9037.6	9033.3	9072.2	9106.8	9141.4	9171.7	9210.6	9266.9	9275.5	9305.8
7.5°	9007.3	8981.3	9041.9	9085.2	9167.4	9240.9	9344.7	9439.9	9478.9	9491.8
10°	9240.9	9197.6	9253.9	9279.8	9349.1	9422.6	9543.8	9695.2	9738.4	9790.3
12.5°	9638.9	9591.3	9673.5	9712.5	9777.4	9842.3	9924.5	10071.6	10093.2	10188.4
15°	10184.0	10127.8	10179.7	10227.3	10335.5	10396.0	10478.2	10621.0	10621.0	10694.5
17.5°	10923.8	10850.3	10889.2	10906.5	10975.7	11066.6	11205.0	11330.5	11395.4	11369.4
20°	12027.0	11936.2	11936.2	11849.7	11823.7	11897.2	12078.9	12252.0	12321.2	12187.1
22.5°	13684.0	13554.2	13480.7	13186.5	13069.7	13078.3	13260.0	13472.0	13528.2	13290.3
25°	15790.9	15587.5	15488.0	15055.4	14791.5	14562.2	14705.0	14977.5	15055.4	14761.2
27.5°	17897.8	17910.8	17815.6	17296.4	16859.5	16439.8	16366.3	16651.8	16734.0	16400.9
30°	20852.6	20545.5	20363.7	19740.8	19117.8	18529.4	18226.6	18343.4	18365.0	17967.0
32.5°	23400.8	23322.9	22933.6	22388.4	21588.1	20666.6	20160.4	19974.4	19939.8	19373.0
35°	26303.7	26260.5	25849.5	25200.5	24335.3	23054.7	22141.8	21609.7	21566.5	20770.4
37.5°	29254.2	29254.2	28851.9	28142.4	27246.8	25646.1	24257.4	23413.8	23275.3	22237.0
40°	31607.7	31465.0	31538.5	31240.0	30214.7	28514.4	26606.6	25382.2	25196.2	23950.2
42.5°	32944.5	32897.0	33338.2	33671.4	33251.7	31893.3	29193.7	27515.1	27255.5	25836.5
45°	33243.1	33191.1	33978.5	35198.5	35786.9	35228.8	32005.7	29760.4	29444.6	27809.3
47.5°	32555.2	32451.3	33606.5	35531.6	37417.9	38400.0	35051.4	32196.1	31737.5	29730.1
50°	30487.2	30387.7	32135.5	34692.4	37967.3	40554.4	38356.7	34778.9	34078.0	31789.4
52.5°	25992.2	26039.8	28778.3	32291.3	37244.9	41895.6	41203.4	37500.1	36656.5	33896.3
55°	20246.9	20350.8	23716.6	27584.3	34354.9	41692.3	43145.9	40303.5	39464.2	35877.8
57.5°	14497.3	14955.9	18109.8	21938.5	28804.3	38469.2	43569.9	42968.5	42155.2	38040.9
60°	9396.7	9478.9	12723.6	16582.6	21934.2	32741.2	42708.9	44988.9	44352.9	40247.3
62.5°	6022.2	6078.4	8055.5	11598.7	15786.6	24222.8	39810.3	45867.1	45672.4	41705.2
65°	4425.8	4382.5	5412.2	7666.1	10634.0	14938.6	34181.9	45443.1	45828.2	42618.1
67.5°	3694.6	3634.1	4140.2	5308.3	7834.9	8483.8	25291.4	42687.3	44097.7	42514.2
70°	3365.8	3313.9	3621.1	3941.2	6113.0	5680.4	12749.5	37110.7	39282.5	41333.2
72.5°	2851.0	2760.2	3179.8	3500.0	4754.6	4356.6	5269.4	28505.8	31153.5	37547.7
75°	2210.7	2150.2	2509.2	3080.3	3573.5	3400.4	3331.2	17309.4	20199.4	29037.9
77.5°	1752.1	1669.9	1998.7	2401.1	3214.4	2565.5	2427.0	7454.2	10318.2	18538.1
80°	1319.5	1246.0	1518.5	1899.2	2470.3	1933.8	1570.4	3041.4	3889.3	9392.3
82.5°	938.8	873.9	1059.9	1393.1	1661.3	1734.8	964.8	1704.6	1916.5	3621.1
85°	601.4	562.4	709.5	873.9	1055.6	1116.2	588.4	891.2	977.7	1492.6
87.5°	328.8	268.2	380.7	406.7	488.9	445.6	281.2	324.5	350.4	540.8
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°
9189.0	0°	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0	9189.0
9206.3	2.5°	9223.6	9236.6	9279.8	9292.8	9323.1	9362.0	9388.0	9414.0	9414.0	9439.9
9344.7	5°	9349.1	9379.4	9470.2	9517.8	9595.7	9673.5	9721.1	9777.4	9812.0	9829.3
9565.4	7.5°	9591.3	9638.9	9768.7	9850.9	9985.0	10093.2	10166.7	10244.6	10261.9	10309.5
9872.5	10°	9920.1	9976.4	10123.5	10279.2	10439.3	10573.4	10642.6	10698.9	10720.5	10729.1
10266.2	12.5°	10296.5	10378.7	10569.1	10759.4	10928.2	11045.0	11062.3	11049.3	10988.7	10936.8
10750.8	15°	10759.4	10833.0	11045.0	11252.6	11417.0	11438.7	11330.5	11261.3	11187.7	11174.8
11291.6	17.5°	11313.2	11352.1	11546.8	11750.1	11763.1	11689.6	11529.5	11464.6	11395.4	11347.8
11996.7	20°	11957.8	11944.8	12083.3	12169.8	12078.9	11854.0	11611.7	11503.6	11434.3	11378.1
12862.0	22.5°	12727.9	12628.4	12611.1	12589.4	12347.2	11875.6	11546.8	11408.4	11300.2	11222.3
14069.0	25°	13848.4	13467.7	13203.8	13056.7	12511.6	11758.8	11339.2	11032.0	10828.7	10694.5
15544.3	27.5°	15250.1	14609.8	13943.6	13584.5	12511.6	11520.9	10837.3	10339.8	10006.7	9868.2
16972.0	30°	16586.9	15916.3	14934.3	14220.4	12481.3	11131.5	10028.3	9336.1	8946.7	8808.3
18192.0	32.5°	17729.1	16997.9	15985.6	14917.0	12407.7	10499.9	9024.6	8258.8	7882.5	7718.1
19399.0	35°	18789.0	18010.3	17041.2	15682.7	12213.1	9574.0	7921.4	7337.4	6917.7	6653.8
20627.7	37.5°	19874.9	18949.1	18040.5	16374.9	11862.6	8492.5	7073.5	6575.9	6082.7	5728.0
21934.2	40°	21056.0	19948.4	19109.1	16785.9	11287.2	7462.8	6415.9	5961.6	5438.1	5061.7
23439.7	42.5°	22436.0	21146.8	20298.9	16997.9	10499.9	6731.7	5987.6	5542.0	5048.8	4741.6
25053.4	45°	23876.7	22466.3	21384.7	16993.6	9621.6	6389.9	5849.1	5407.8	4862.7	4542.6
26710.4	47.5°	25386.5	23846.4	22323.5	16716.7	8860.2	6437.5	5771.2	5118.0	4516.6	4205.1
28384.7	50°	26900.7	25356.3	23232.1	16197.6	8535.7	6333.7	5481.4	4711.3	4001.8	3720.6
29955.1	52.5°	28402.0	26961.3	24015.1	15457.8	8206.9	5948.6	5109.3	4183.5	3789.8	3595.1
31577.4	55°	29911.8	28549.1	24867.4	14380.5	7384.9	5498.7	4486.3	3984.5	3621.1	3443.7
33165.2	57.5°	31426.0	30383.4	25676.4	13303.3	6351.0	4944.9	4144.6	3742.2	3452.4	3300.9
34493.3	60°	33000.8	32481.6	26511.4	12312.6	5330.0	4235.4	3893.6	3547.5	3253.4	3084.6
35769.6	62.5°	34623.1	34791.9	27164.6	11036.3	4391.2	3802.8	3668.7	3313.9	3028.4	2868.3
36825.2	65°	36258.5	37019.9	27592.9	9266.9	3560.5	3391.8	3426.4	3058.7	2768.8	2630.4
37599.6	67.5°	37491.4	38624.9	27471.8	7012.9	2920.2	3002.4	3123.6	2790.4	2517.9	2409.7
37474.1	70°	37629.9	38434.6	26277.8	4802.2	2444.3	2621.7	2786.1	2526.5	2245.3	2167.5
35709.0	72.5°	35786.9	35838.8	22950.9	3136.5	2068.0	2301.6	2431.4	2258.3	1985.8	1907.9
31240.0	75°	30954.5	29639.3	16850.8	2068.0	1730.5	1977.1	2098.2	1977.1	1713.2	1730.5
23374.8	77.5°	23452.7	20991.1	10231.6	1470.9	1445.0	1661.3	1825.7	1739.2	1514.2	1700.2
11754.5	80°	12083.3	11356.5	4564.2	1098.9	1142.1	1328.2	1501.2	1388.7	1198.4	1142.1
2626.0	82.5°	2768.8	3218.7	1799.7	787.4	826.3	956.1	1146.5	1042.6	860.9	726.8
1094.5	85°	969.1	1059.9	796.0	493.2	484.5	597.0	778.7	696.5	584.0	467.2
462.9	87.5°	307.2	402.3	298.5	199.0	207.7	268.2	359.1	328.8	272.6	177.4
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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<u>180°</u>
9189.0
9439.9
9837.9
10292.2
10707.5
10936.8
11174.8
11352.1
11382.4
11248.3
10746.5
9937.4
8890.5
7800.3
6740.3
5823.2
5135.3
4802.2
4594.5
4248.4
3737.9
3595.1
3426.4
3275.0
3071.7
2864.0
2626.0
2414.1
2171.8
1903.6
1669.9
1496.9
1042.6
718.2
493.2
186.0
0.0

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