

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: P944537

Luminaire Tested: **GALN-SB9C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944537
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-SB9C-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72217 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

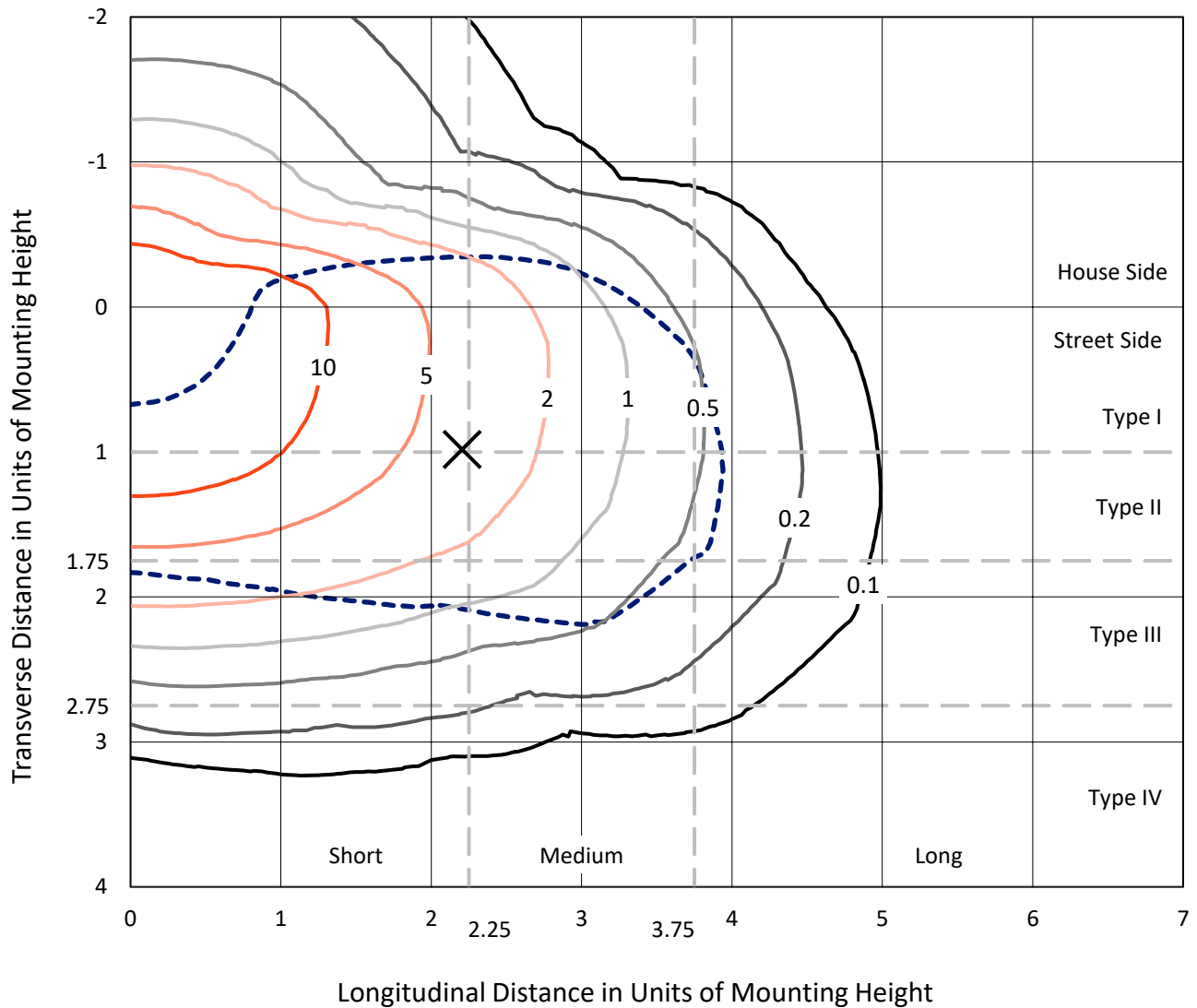
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

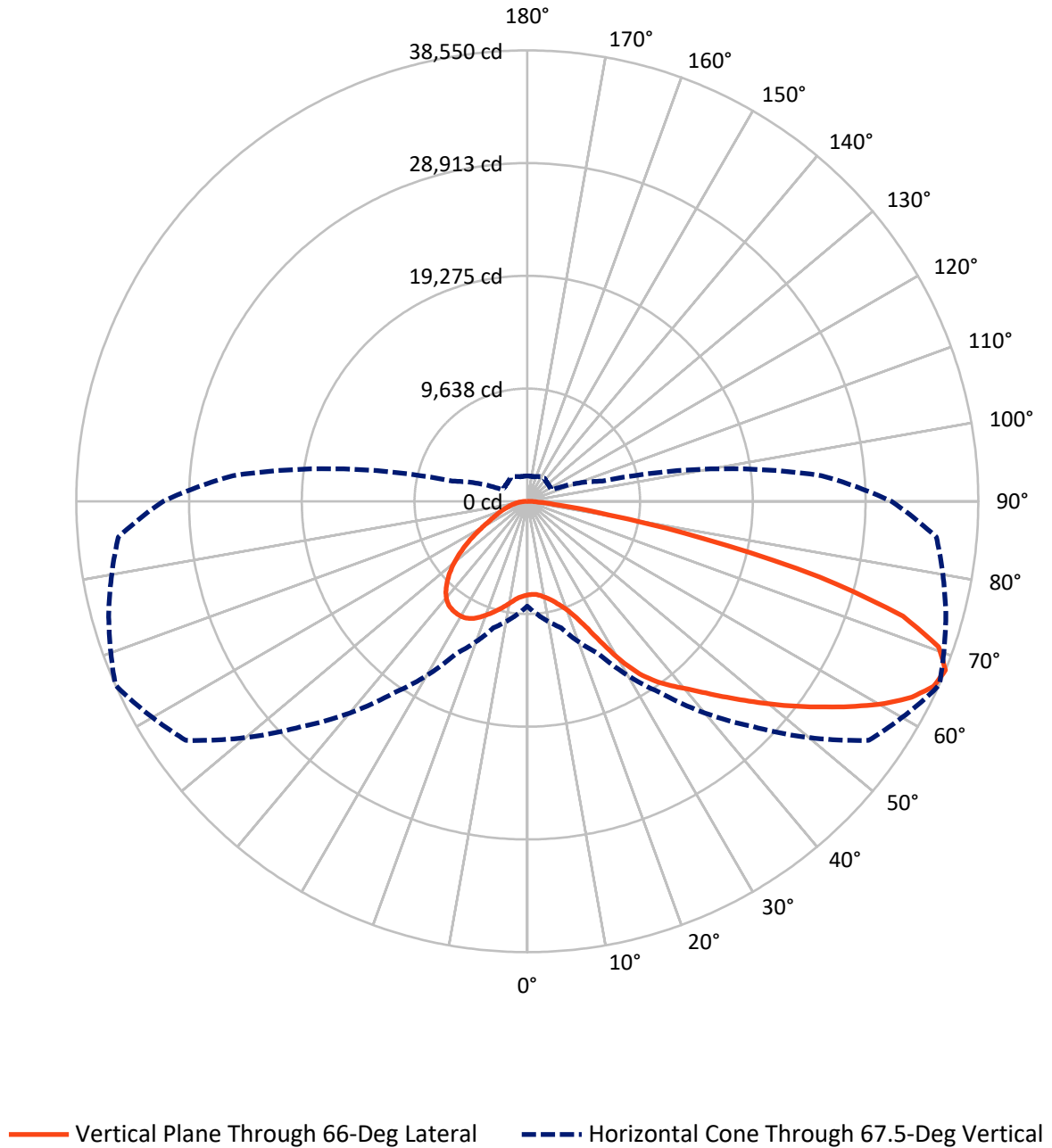
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	17956.5	0.0	17956.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	54260.4	0.0	54260.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	72217.0	0.0	72217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.1	1.1
10°-20°	2623.7	3.6
20°-30°	5057.1	7.0
30°-40°	8867.0	12.3
40°-50°	13182.3	18.3
50°-60°	16709.9	23.1
60°-70°	16350.2	22.6
70°-80°	7799.2	10.8
80°-90°	833.5	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°	72217.0	100.0
0°-180°	72217.0	100.0



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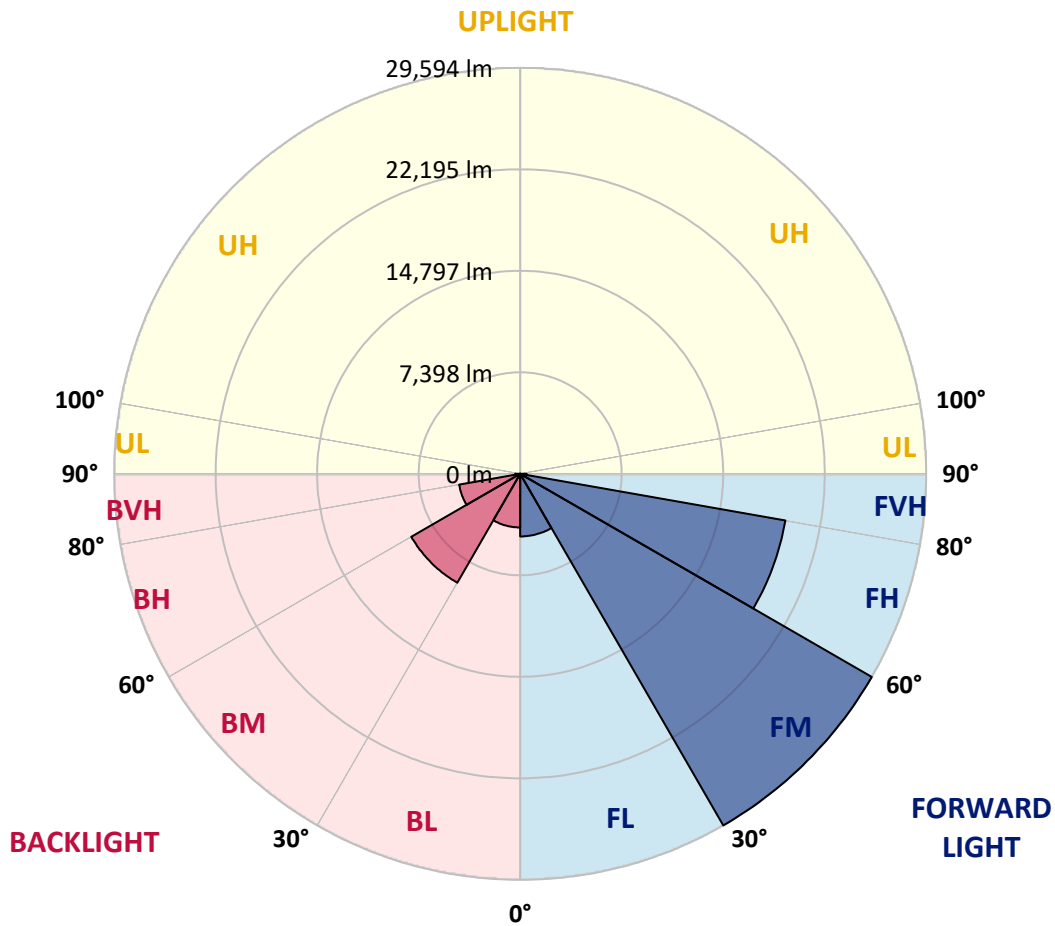
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4563.4	6.3			
FM (30°-60°)	29593.9	41.0			
FH (60°-80°)	19630.6	27.2			G5
FVH (80°-90°)	472.6	0.7			G3/500
BL (0°-30°)	3911.6	5.4	B4/5000		
BM (30°-60°)	9165.2	12.7	B5		
BH (60°-80°)	4518.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	360.9	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8
2.5°	7926.3	7971.9	7960.5	7941.5	7937.7	7945.3	7956.7	7968.1	7964.3	7983.3
5°	7903.6	7949.1	7945.3	7945.3	7960.5	7990.8	8009.8	8028.8	8009.8	8032.6
7.5°	7918.8	7952.9	7968.1	7983.3	8021.2	8078.1	8123.6	8165.4	8142.6	8169.2
10°	8112.3	8138.8	8154.0	8154.0	8180.6	8245.1	8290.6	8366.5	8347.5	8389.3
12.5°	8465.1	8491.7	8491.7	8476.5	8495.5	8537.2	8552.4	8635.9	8601.7	8670.0
15°	8897.7	8950.8	8909.1	8882.5	8890.1	8931.8	8928.0	8992.5	8958.4	9015.3
17.5°	9375.8	9444.1	9375.8	9372.0	9356.8	9402.3	9406.1	9463.0	9402.3	9444.1
20°	9941.1	10036.0	9979.1	9998.0	9963.9	9982.9	10001.8	10085.3	9990.5	10020.8
22.5°	10737.9	10851.8	10791.1	10863.2	10840.4	10825.2	10821.4	10969.4	10821.4	10832.8
25°	11899.0	12035.6	11929.4	12028.0	12028.0	12077.3	12134.3	12324.0	12077.3	12005.2
27.5°	13614.0	13750.6	13541.9	13602.7	13583.7	13705.1	13644.4	14114.9	13849.3	13731.7
30°	15678.2	15921.0	15526.4	15511.2	15492.2	15685.7	15773.0	16084.1	15814.7	15697.1
32.5°	17909.2	18163.4	17692.9	17556.3	17484.2	17601.9	17529.8	17780.2	17594.3	17412.2
35°	20269.3	20519.7	20072.0	19806.4	19518.0	19271.4	19013.4	19077.9	18903.3	18626.3
37.5°	22500.3	22959.5	22485.2	22200.6	21669.4	21187.5	20466.6	20166.8	20003.7	19749.5
40°	24773.1	25035.0	24674.5	24431.7	23854.9	23099.8	21946.4	21312.7	21092.7	20846.0
42.5°	26446.4	26696.9	26503.4	26336.4	25884.9	25008.4	23517.2	22724.2	22405.5	22128.5
45°	27774.5	27960.4	27839.0	27899.7	27706.2	26856.2	25145.0	24238.1	23908.0	23570.3
47.5°	28309.5	28506.8	28700.3	29060.7	29390.8	28764.8	26894.2	25877.3	25528.2	25182.9
50°	28248.7	28449.8	29011.4	29777.9	30802.3	30593.6	28738.2	27622.7	27300.2	26905.6
52.5°	27763.1	27990.7	28711.7	29986.5	31618.1	31963.4	30616.4	29425.0	29121.4	28650.9
55°	26488.2	26624.8	27706.2	29512.3	31811.6	32919.6	32456.7	31344.9	31041.4	30385.0
57.5°	24124.3	24321.6	25896.3	28233.6	31325.9	33568.4	34073.0	33363.5	33071.3	32126.5
60°	21039.5	21354.5	23156.8	26086.0	30089.0	33564.6	35541.4	35347.9	35105.1	33841.6
62.5°	17548.8	17913.0	19647.0	23050.5	27926.2	32612.2	36459.7	37009.8	36884.6	35423.8
65°	13477.4	13727.9	15454.3	19123.4	24560.7	30567.1	36565.9	38144.3	38167.1	36626.6
67.5°	8973.6	9694.5	11193.3	14350.1	20053.0	27224.3	35632.5	38330.3	38550.3	37040.2
70°	4378.7	5327.2	6795.6	9326.5	14350.1	22098.1	33192.8	36805.0	37294.4	35833.6
72.5°	1817.5	2124.8	2925.4	4602.5	8237.5	14911.7	28290.5	32669.1	33576.0	31750.9
75°	1225.6	1328.0	1673.3	2360.1	3752.6	7353.4	20402.1	24359.6	25820.4	23980.1
77.5°	944.8	1009.3	1218.0	1650.5	2231.1	2781.2	10920.1	14680.2	15435.3	14289.4
80°	743.7	793.0	910.6	1202.8	1582.2	1487.4	3722.2	6651.5	7087.8	5945.7
82.5°	645.0	664.0	652.6	815.8	1051.0	868.9	1221.8	2454.9	2709.1	1965.5
85°	466.7	519.8	542.6	504.6	557.8	440.1	500.9	868.9	956.2	853.7
87.5°	189.7	280.8	345.3	326.3	204.9	125.2	155.6	254.2	292.2	318.7
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°
8009.8	0°	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8
8013.6	2.5°	8017.4	8044.0	8062.9	8085.7	8100.9	8123.6	8169.2	8195.7	8199.5	8218.5
8074.3	5°	8089.5	8127.4	8169.2	8229.9	8298.2	8355.1	8442.4	8503.1	8525.8	8544.8
8222.3	7.5°	8245.1	8298.2	8374.1	8480.3	8579.0	8654.9	8761.1	8833.2	8905.3	8931.8
8457.6	10°	8476.5	8552.4	8662.4	8806.6	8912.9	9011.5	9121.6	9182.3	9254.4	9284.7
8738.3	12.5°	8764.9	8844.6	8988.8	9189.9	9288.5	9356.8	9394.7	9379.6	9394.7	9421.3
9076.0	15°	9095.0	9182.3	9345.4	9561.7	9630.0	9569.3	9485.8	9409.9	9398.5	9406.1
9485.8	17.5°	9485.8	9550.3	9740.0	9922.2	9872.8	9622.4	9440.3	9318.9	9258.2	9239.2
10009.4	20°	10032.2	10032.2	10187.8	10301.6	9971.5	9546.5	9261.9	9064.6	8939.4	8886.3
10722.8	22.5°	10696.2	10635.5	10734.1	10654.5	9952.5	9334.0	8939.4	8597.9	8408.2	8332.3
11720.7	25°	11538.5	11466.4	11439.9	10946.6	9815.9	8996.3	8355.1	7941.5	7774.6	7732.8
13158.7	27.5°	12809.6	12627.5	12282.2	11106.0	9565.5	8465.1	7672.1	7288.9	7194.0	7197.8
15006.6	30°	14501.9	14137.7	13291.5	11132.5	9155.7	7713.9	6974.0	6700.8	6655.2	6674.2
16558.4	32.5°	16069.0	15723.7	14323.6	11011.1	8525.8	6977.8	6347.9	6165.8	6097.5	6120.2
17742.3	35°	17298.3	17203.5	15279.7	10840.4	7751.8	6287.2	5786.3	5630.8	5498.0	5467.6
18857.8	37.5°	18459.4	18421.4	15996.9	10601.3	6985.4	5797.7	5334.8	5129.9	4936.4	4830.2
20090.9	40°	19734.3	19696.3	16467.4	10233.3	6306.2	5372.8	4928.8	4659.4	4420.4	4226.9
21487.3	42.5°	21168.5	20944.7	16691.2	9705.9	5729.4	5012.3	4598.7	4234.5	3919.5	3741.2
23065.7	45°	22735.6	22230.9	16687.4	9034.3	5243.8	4682.2	4245.8	3729.8	3437.7	3270.7
24685.9	47.5°	24397.5	23460.3	16482.5	8290.6	4773.3	4317.9	3699.5	3304.9	3111.3	3008.9
26446.4	50°	26112.5	24610.0	16133.5	7436.9	4291.4	3904.4	3358.0	3088.6	2940.6	2845.7
28191.8	52.5°	27725.1	25653.4	15712.3	6469.3	3801.9	3502.2	3206.2	2997.5	2841.9	2735.7
29884.1	55°	29223.9	26552.7	15116.6	5479.0	3403.5	3232.8	3134.1	2959.6	2781.2	2656.0
31602.9	57.5°	30555.7	27137.0	14088.3	4549.4	3118.9	3046.8	3058.2	2895.1	2690.2	2583.9
33295.2	60°	31663.6	27565.8	12566.8	3688.1	2887.5	2864.7	2940.6	2773.7	2534.6	2413.2
34725.7	62.5°	32327.6	27558.2	10700.0	3020.3	2690.2	2697.8	2785.0	2621.9	2379.0	2265.2
35473.1	65°	32270.7	26882.8	8651.1	2583.9	2500.5	2508.0	2621.9	2454.9	2250.0	2181.7
35097.5	67.5°	31128.6	25236.1	6636.3	2299.4	2291.8	2325.9	2458.7	2341.1	2170.4	2162.8
32858.9	70°	28036.3	21817.4	4780.8	2071.7	2075.5	2124.8	2299.4	2269.0	2128.6	2143.8
27626.5	72.5°	22481.4	16634.3	3210.0	1832.7	1836.5	1916.1	2147.6	2212.1	2086.9	2288.0
19601.5	75°	14972.4	10373.7	2064.1	1578.4	1582.2	1684.7	2014.8	2102.1	1973.0	2280.4
10199.1	77.5°	7194.0	4663.2	1495.0	1328.0	1328.0	1422.9	1741.6	1882.0	1680.9	1771.9
3278.3	80°	2485.3	1753.0	1176.2	1070.0	1047.2	1111.7	1468.4	1631.6	1449.4	1335.6
1070.0	82.5°	978.9	910.6	944.8	831.0	755.1	796.8	1142.1	1347.0	1066.2	963.8
603.3	85°	561.6	591.9	667.8	550.2	436.3	489.5	838.5	967.6	804.4	709.5
197.3	87.5°	151.8	208.7	307.3	284.6	197.3	208.7	398.4	535.0	462.9	356.7
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°
8009.8
8214.7
8541.0
8935.6
9299.9
9428.9
9432.7
9265.7
8874.9
8321.0
7740.4
7209.2
6738.7
6150.6
5490.4
4834.0
4245.8
3752.6
3263.1
2986.1
2811.6
2690.2
2606.7
2515.6
2360.1
2231.1
2177.9
2174.1
2140.0
2318.3
2299.4
1624.0
1252.1
960.0
724.7
368.0
0.0

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