

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: P944057

Luminaire Tested: **GALN-SB8D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944057
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-SB8D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71601 lumens
Efficiency: N/A
Efficacy: 122.4 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

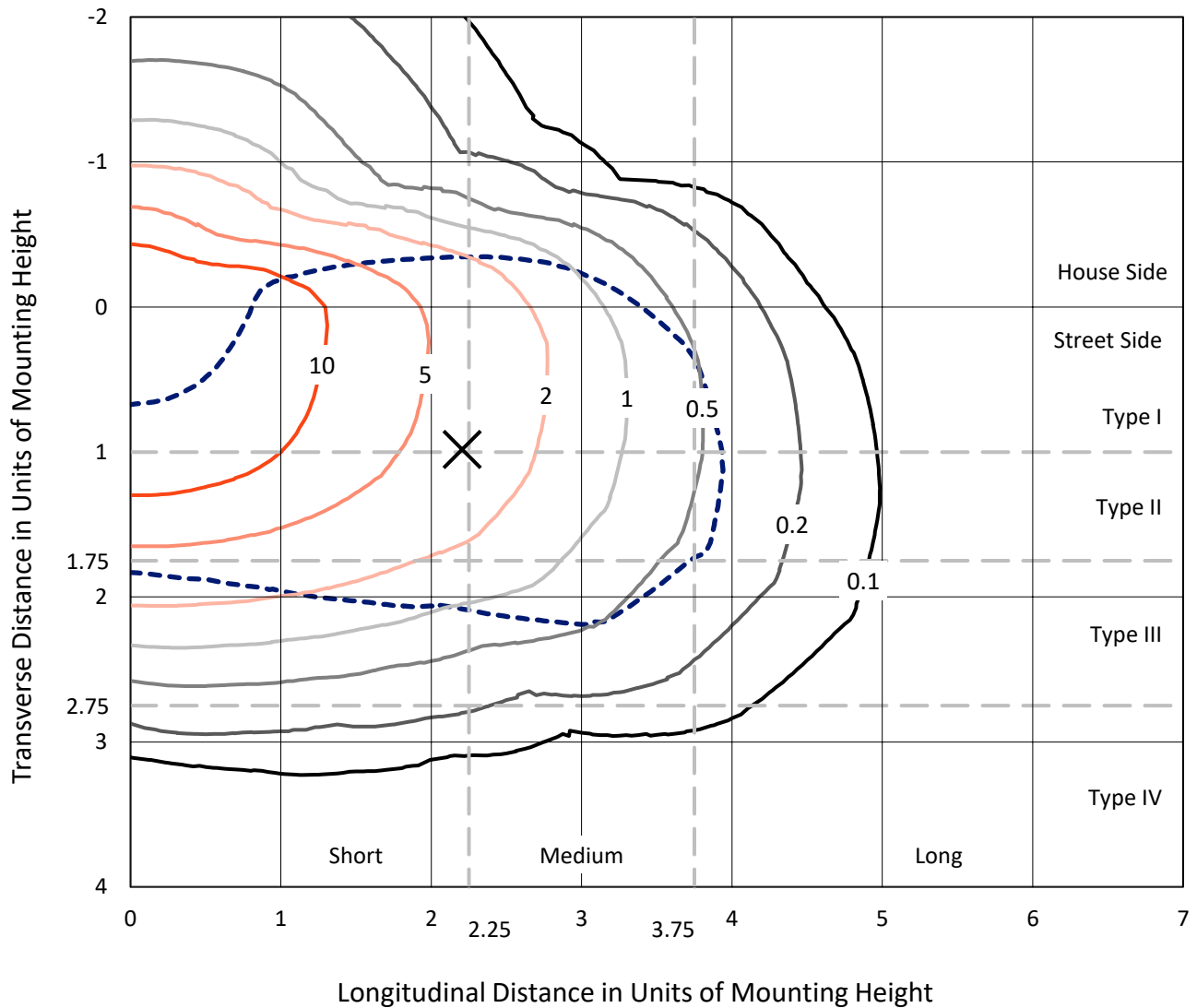
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

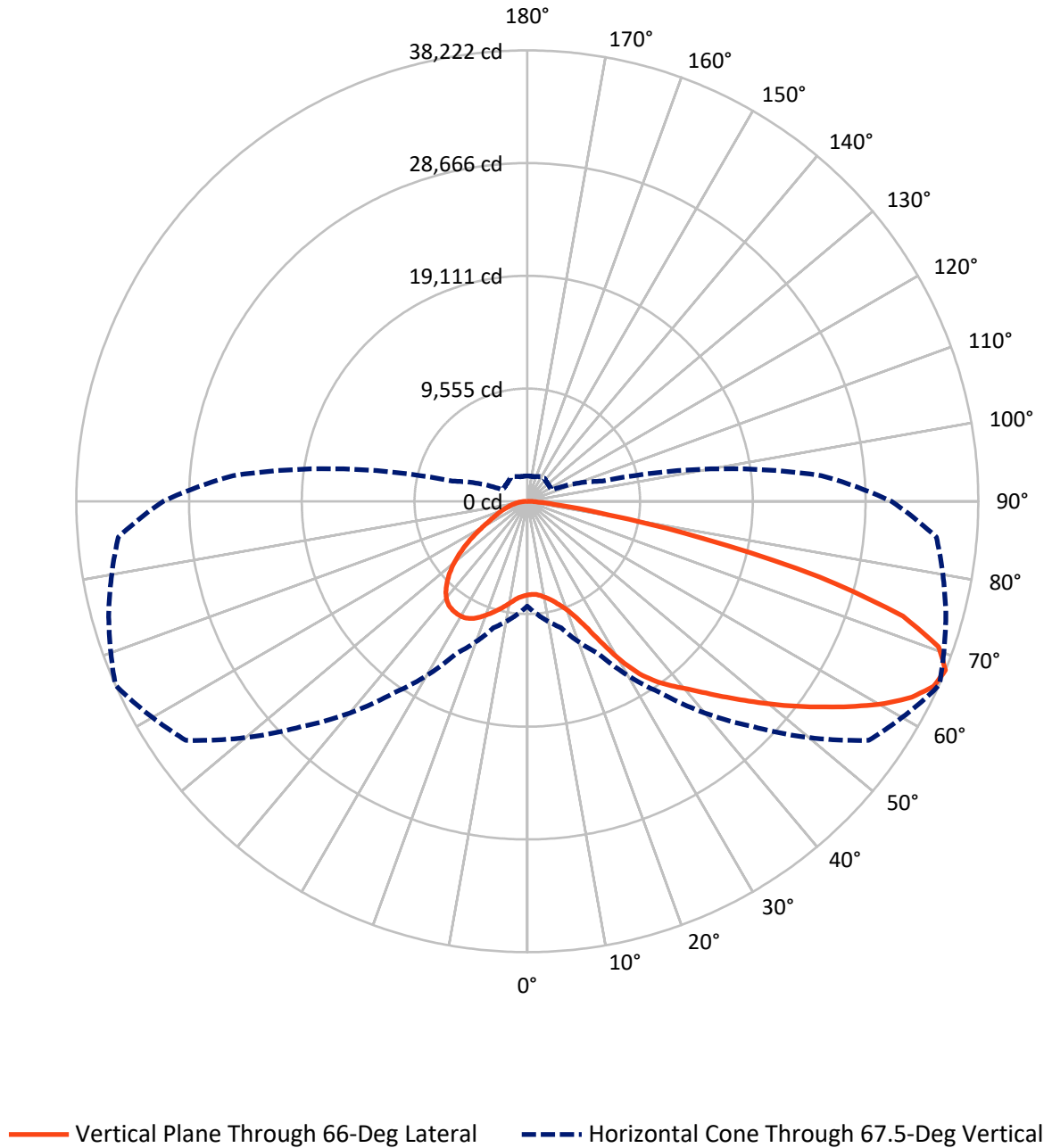
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	17803.4	0.0	17803.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	53797.6	0.0	53797.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	71601.0	0.0	71601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.4	1.1
10°-20°	2601.4	3.6
20°-30°	5014.0	7.0
30°-40°	8791.4	12.3
40°-50°	13069.8	18.3
50°-60°	16567.3	23.1
60°-70°	16210.7	22.6
70°-80°	7732.7	10.8
80°-90°	826.4	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°	71601.0	100.0
0°-180°	71601.0	100.0

Coefficient of Utilization



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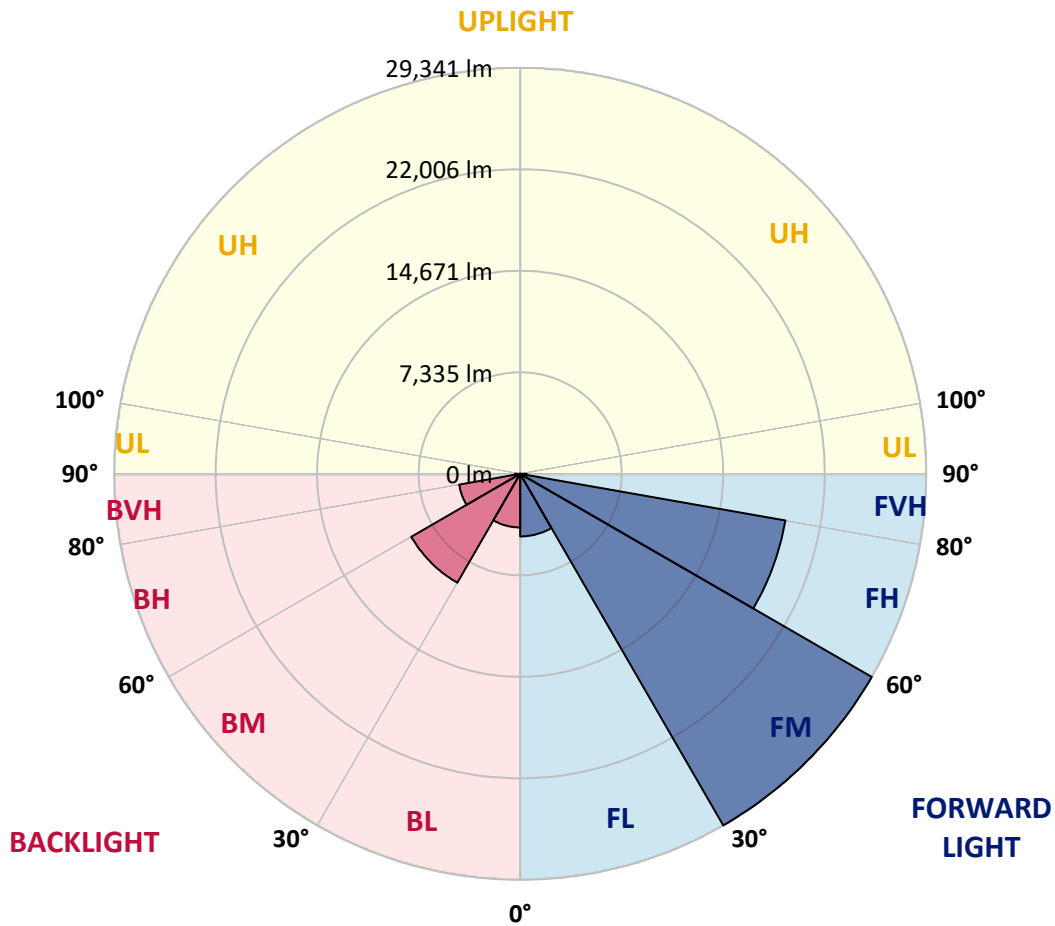
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4524.5	6.3			
FM (30°-60°)	29341.5	41.0			
FH (60°-80°)	19463.1	27.2			G5
FVH (80°-90°)	468.5	0.7			G3/500
BL (0°-30°)	3878.2	5.4	B4/5000		
BM (30°-60°)	9087.0	12.7	B5		
BH (60°-80°)	4480.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	357.9	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°	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5
2.5°	7858.7	7903.9	7892.6	7873.8	7870.0	7877.5	7888.8	7900.1	7896.4	7915.2
5°	7836.2	7881.3	7877.5	7877.5	7892.6	7922.7	7941.5	7960.3	7941.5	7964.1
7.5°	7851.2	7885.1	7900.1	7915.2	7952.8	8009.2	8054.4	8095.7	8073.2	8099.5
10°	8043.1	8069.4	8084.5	8084.5	8110.8	8174.7	8219.9	8295.1	8276.3	8317.7
12.5°	8392.9	8419.3	8419.3	8404.2	8423.0	8464.4	8479.5	8562.2	8528.4	8596.1
15°	8821.8	8874.5	8833.1	8806.7	8814.3	8855.7	8851.9	8915.8	8882.0	8938.4
17.5°	9295.8	9363.5	9295.8	9292.0	9277.0	9322.1	9325.9	9382.3	9322.1	9363.5
20°	9856.3	9950.4	9894.0	9912.8	9878.9	9897.7	9916.5	9999.3	9905.2	9935.3
22.5°	10646.3	10759.2	10699.0	10770.5	10747.9	10732.9	10729.1	10875.8	10729.1	10740.4
25°	11797.5	11932.9	11827.6	11925.4	11925.4	11974.3	12030.7	12218.8	11974.3	11902.8
27.5°	13497.9	13633.3	13426.4	13486.6	13467.8	13588.2	13528.0	13994.5	13731.2	13614.5
30°	15544.4	15785.2	15393.9	15378.9	15360.1	15551.9	15638.5	15946.9	15679.8	15563.2
32.5°	17756.5	18008.5	17542.0	17406.6	17335.1	17451.7	17380.3	17628.5	17444.2	17263.6
35°	20096.4	20344.7	19900.8	19637.4	19351.5	19107.0	18851.2	18915.1	18742.1	18467.5
37.5°	22308.4	22763.6	22293.4	22011.2	21484.6	21006.8	20292.0	19994.8	19833.1	19581.0
40°	24561.8	24821.4	24464.0	24223.3	23651.4	22902.8	21759.2	21130.9	20912.7	20668.2
42.5°	26220.9	26469.1	26277.3	26111.8	25664.1	24795.1	23316.6	22530.4	22214.4	21939.7
45°	27537.5	27721.9	27601.5	27661.7	27469.8	26627.2	24930.5	24031.4	23704.1	23369.3
47.5°	28068.0	28263.6	28455.5	28812.9	29140.1	28519.4	26664.8	25656.6	25310.5	24968.1
50°	28007.8	28207.2	28763.9	29523.9	30539.6	30332.7	28493.1	27387.1	27067.3	26676.1
52.5°	27526.3	27752.0	28466.7	29730.8	31348.4	31690.7	30355.3	29174.0	28873.0	28406.6
55°	26262.2	26397.7	27469.8	29260.5	31540.3	32638.8	32179.8	31077.5	30776.6	30125.8
57.5°	23918.5	24114.2	25675.4	27992.7	31058.7	33282.1	33782.4	33078.9	32789.2	31852.5
60°	20860.1	21172.3	22959.2	25863.5	29832.3	33278.3	35238.3	35046.4	34805.7	33552.9
62.5°	17399.1	17760.2	19479.4	22853.9	27688.0	32334.0	36148.7	36694.2	36570.0	35121.7
65°	13362.5	13610.8	15322.5	18960.3	24351.2	30306.3	36254.0	37819.0	37841.6	36314.2
67.5°	8897.0	9611.8	11097.8	14227.7	19882.0	26992.1	35328.6	38003.3	38221.5	36724.3
70°	4341.3	5281.8	6737.7	9246.9	14227.7	21909.7	32909.6	36491.0	36976.3	35527.9
72.5°	1802.0	2106.7	2900.5	4563.3	8167.2	14784.5	28049.2	32390.5	33289.6	31480.1
75°	1215.1	1316.7	1659.0	2339.9	3720.6	7290.7	20228.1	24151.8	25600.1	23775.6
77.5°	936.7	1000.7	1207.6	1636.5	2212.0	2757.5	10826.9	14555.0	15303.7	14167.5
80°	737.3	786.2	902.9	1192.5	1568.7	1474.7	3690.5	6594.7	7027.3	5895.0
82.5°	639.5	658.3	647.1	808.8	1042.1	861.5	1211.4	2434.0	2686.0	1948.7
85°	462.7	515.4	538.0	500.3	553.0	436.4	496.6	861.5	948.0	846.4
87.5°	188.1	278.4	342.3	323.5	203.1	124.1	154.2	252.1	289.7	316.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7941.5	0°	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5	7941.5
7945.3	2.5°	7949.0	7975.4	7994.2	8016.7	8031.8	8054.4	8099.5	8125.8	8129.6	8148.4
8005.5	5°	8020.5	8058.1	8099.5	8159.7	8227.4	8283.8	8370.4	8430.6	8453.1	8471.9
8152.2	7.5°	8174.7	8227.4	8302.6	8408.0	8505.8	8581.0	8686.4	8757.8	8829.3	8855.7
8385.4	10°	8404.2	8479.5	8588.6	8731.5	8836.8	8934.7	9043.8	9103.9	9175.4	9205.5
8663.8	12.5°	8690.1	8769.1	8912.1	9111.5	9209.3	9277.0	9314.6	9299.6	9314.6	9340.9
8998.6	15°	9017.4	9103.9	9265.7	9480.1	9547.9	9487.7	9404.9	9329.7	9318.4	9325.9
9404.9	17.5°	9404.9	9468.9	9657.0	9837.5	9788.6	9540.3	9359.8	9239.4	9179.2	9160.4
9924.0	20°	9946.6	9946.6	10100.9	10213.7	9886.4	9465.1	9182.9	8987.3	8863.2	8810.5
10631.3	22.5°	10605.0	10544.8	10642.6	10563.6	9867.6	9254.4	8863.2	8524.6	8336.5	8261.3
11620.7	25°	11440.1	11368.6	11342.3	10853.3	9732.2	8919.6	8283.8	7873.8	7708.3	7666.9
13046.5	27.5°	12700.4	12519.8	12177.5	11011.3	9483.9	8392.9	7606.7	7226.7	7132.7	7136.4
14878.6	30°	14378.2	14017.1	13178.1	11037.6	9077.6	7648.1	6914.5	6643.6	6598.5	6617.3
16417.2	32.5°	15931.9	15589.6	14201.4	10917.2	8453.1	6918.2	6293.8	6113.2	6045.5	6068.0
17590.9	35°	17150.8	17056.7	15149.4	10747.9	7685.7	6233.6	5737.0	5582.7	5451.1	5421.0
18696.9	37.5°	18301.9	18264.3	15860.4	10510.9	6925.8	5748.3	5289.3	5086.2	4894.3	4789.0
19919.6	40°	19566.0	19528.3	16326.9	10146.0	6252.4	5326.9	4886.8	4619.7	4382.7	4190.8
21304.0	42.5°	20988.0	20766.0	16548.9	9623.1	5680.6	4969.5	4559.5	4198.3	3886.1	3709.3
22869.0	45°	22541.7	22041.3	16545.1	8957.2	5199.0	4642.3	4209.6	3698.0	3408.3	3242.8
24475.3	47.5°	24189.4	23260.2	16342.0	8219.9	4732.5	4281.1	3667.9	3276.7	3084.8	2983.2
26220.9	50°	25889.8	24400.1	15995.9	7373.4	4254.8	3871.1	3329.3	3062.2	2915.5	2821.5
27951.4	52.5°	27488.6	25434.6	15578.3	6414.1	3769.5	3472.3	3178.9	2971.9	2817.7	2712.4
29629.2	55°	28974.6	26326.2	14987.6	5432.3	3374.5	3205.2	3107.4	2934.3	2757.5	2633.4
31333.4	57.5°	30295.1	26905.5	13968.2	4510.6	3092.3	3020.9	3032.1	2870.4	2667.2	2561.9
33011.2	60°	31393.6	27330.6	12459.6	3656.6	2862.9	2840.3	2915.5	2750.0	2513.0	2392.6
34429.5	62.5°	32051.9	27323.1	10608.7	2994.5	2667.2	2674.8	2761.3	2599.5	2358.7	2245.9
35170.6	65°	31995.5	26653.5	8577.3	2561.9	2479.1	2486.7	2599.5	2434.0	2230.8	2163.1
34798.1	67.5°	30863.1	25020.8	6579.7	2279.7	2272.2	2306.1	2437.7	2321.1	2151.8	2144.3
32578.6	70°	27797.1	21631.3	4740.1	2054.0	2057.8	2106.7	2279.7	2249.7	2110.5	2125.5
27390.8	72.5°	22289.6	16492.4	3182.6	1817.0	1820.8	1899.8	2129.3	2193.2	2069.1	2268.5
19434.3	75°	14844.7	10285.2	2046.5	1565.0	1568.7	1670.3	1997.6	2084.1	1956.2	2260.9
10112.1	77.5°	7132.7	4623.4	1482.2	1316.7	1316.7	1410.7	1726.7	1865.9	1666.5	1756.8
3250.3	80°	2464.1	1738.0	1166.2	1060.9	1038.3	1102.3	1455.9	1617.6	1437.1	1324.2
1060.9	82.5°	970.6	902.9	936.7	823.9	748.6	790.0	1132.3	1335.5	1057.1	955.5
598.2	85°	556.8	586.9	662.1	545.5	432.6	485.3	831.4	959.3	797.5	703.5
195.6	87.5°	150.5	206.9	304.7	282.1	195.6	206.9	395.0	530.4	459.0	353.6
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°
7941.5
8144.6
8468.2
8859.4
9220.6
9348.5
9352.2
9186.7
8799.2
8250.0
7674.4
7147.7
6681.2
6098.1
5443.6
4792.7
4209.6
3720.6
3235.3
2960.7
2787.6
2667.2
2584.5
2494.2
2339.9
2212.0
2159.4
2155.6
2121.7
2298.6
2279.7
1610.1
1241.4
951.8
718.5
364.9
0.0

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